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a novel



## introduction

As noted at the end, I wrote this 60K-word document in six days: NaNoWriMo became NaNoWriWk by... accident.

It's not a normal novel. There are some places where things happen that I did not have the resources to write, so a period of several years are skipped over in a day. Trust me, stuff happens, but I can tell you later! Much later!

The setting is The Future, but also In People's Heads. There may be some confusion as to which is which, because we do not have the advantage of advanced typography.

Finally, I will spelling correct in the morning. I'm tired, and dyslexic.

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Cloughjordan, Ireland  
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## book one

Harry sat on the dock, feet dangling just above the green water. His sandals sat by his left hand, damp and sandy. The mountains reflected in the water were always covered in snow at the top, but the slopes were grey or green or white depending on the time of year. In the summer, the trails were deliciously shadowed and leafy.

Overhead, the lake monitor flitted about, making sure nobody was drowning. A fist-sized lump of plastic and rainbow-iridescent solar panels, covered in tiny eyes, it had been designed to be vaguely reminiscent of a giant dragonfly, without being a simple copy. Just enough like nature not to be a dull machine, but not a crude imitation. This was fairly typical of machines, nothing exceptional, but Harry had a vague ambition to be a robot designer one day, and had looked up the specifications for the lake monitor and quizzed the maintenance guy about the device in some detail one summer two years ago when it had gone down with a mechanical fault. Harry didn't really understand how the monitor helped people - it was too small to stop anybody drowning - but the device was simple enough. Ever-watchful, if somebody was in trouble, it simply phoned appointed people in the schloss to come and help. Harry did not think much about the similarity between the lake monitor and similar, less naturally-styled devices at school, rolling down the corridors picking up trash, encouraging children to classes, occasionally making malfeasance known to teachers. It wasn't hard to mess around with the school robots, any seven year old could estimate line-of-sight for the cat-sized devices, trick their simple brains into blaming the wrong kid for somebody being pushed over, confuse them in a stampede of legs and tip them over, and similar games.

Robots were dull, everyday objects to Harry. But the imitation of life, of the living dragonflies, was a little touch of magic. Harry watched the monitor hovering over some children splashing about on the shore with buckets, their mother lost in her book a few yards distant.

Harry was trying to meditate. Fitfully, he aligned breath with the slow swing of his feet, trying to will the water to come alive in his sight, as it had the first time that Uncle Peter had shown him how to coordinate breath-and-hands. Peter called it chigung, said that it predated kung fu, but was actually much more important. There wasn't much to do in the summer, when Harry's father worked from here in the mountains over the school holidays, and mother and Harry's two sisters went to the music school most days. It wasn't boring, but it lacked the intensity of summer in the city, with sports and parties and the constant rush of visitors, arrivals and departures, and the gentle chaos of the city's streets. Colorado was not New York, but this was how the summer usually was.

Peter said that if you did the breathing just right, you lived forever. Harry quizzed him at the time "forever like it seems forever? you don't mean forever!" and Peter laughed, enigmatic, and said "well, perhaps it just seems like forever" and messed up Harry's hair in feigned annoyance. Harry slipped gently into trance for a few moments, watching his foot swing back and forth over the water, exhaling it forwards, inhaling it backwards, and the water was perfect crystal, completely static, and the air was simply its pressure against Harry's nostrils, nothing more. Hearing sharpened and, for a moment, Harry was aware of the sound of everything all

around him as a single, static thing, frozen in time, all heard as a single note. He shivered, breaking the spell. He didn't really know what Peter was getting at, but as Father said, "Peter spent a long time figuring out the hidden angles of the obvious, and you should look over his shoulder at least a couple of times." He'd watched Peter in the mornings, slowly dancing with sticks, fluid rotation, body and the weapons moving in the same or opposite directions, tucked turns and surprising snap kicks, all in semi-slow motion. It seemed like an odd pre-occupation for a 50 year old man, but trying to imitate Peter with a stick soon revealed how much the older man knew about sticks and steps and bodies.

Father said that Peter was the mystic of the family, "a wizard, but there aren't really wizards like in the stories—he's as close as people really get, though." Harry dimly understood that Peter was a good few years older than Father, and that Grandfather had died when they were both in their teens, and Papa (his father) not that long after that, and that Father still looked up to Peter, even though Peter was by most standards quite poor, a green camper van packed with strange odds-and-ends of electronics and camping gear and clay and a wheel and a mandolin and, some years, a dog or two riding saddles or... "look over his shoulder, but for god's sake don't go off on the whole trip with him, son!"

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Peter eased through the form. Deeply familiar, he was not quite in tune with his actions, not quite fully focussed. In the edges of his vision, the after-image of the sticks carried the slight sheen in the air of energy, but he was aware of going through the motions, too aware of his own awareness to really sink into the practice.

A little coffee in the morning helped shake off the evening's torpor, but left the slightly-too-heightened awareness until noon, rounding off the edges of the practice in just the wrong way. Peter didn't care, right now it was as much for muscles as for soul, and he's spent enough years living on rice and vegetables and barley cup to consider a disgraceful old age of caffeine and red wine a fair hash. Slowly, always slowly, trying to unlearn the martial instincts from his thirties, the desire to snap the sticks like whips, drive through the forms on angular momentum and imagined opponents broken bones. To just let the stick be a stick, the elbow prescribing the arc, the knee supporting. Peter wonders what he'll be working on in ten years, if he keeps up the practice, or if one day he'll return to the sword form, finally ready to put in the time to move from wood to steel, from the curved sabre to the perfection of the straight sword. Perhaps in time.

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Gregory closes the door and pulls the blinds. Countersurveillance nodes report, in the small green indicator under the clock, that there are no detectable surveillance devices in the area, no tight pulsed laser beams on the glass, no complex antennas catching a thread of occasional white noise bursts across many frequencies. Gregory loads up half a dozen windows with live feeds from African operations, bits of drone imagery highlighting where the map is not the territory, where things are behind schedule, where there's been a shooting or a few cases of cholera. The coffee grows cold as he starts to integrate the general picture. It's not a bad day, by any means. The State Department's humanitarian operations have been fairly well organized this year, unlike the debacles of summer two years ago when a series of personnel changes left them short-handed at the start of a civil war and balls were dropped which made the media.

The gear in the field is getting old. They stuck with an older, cheaper platform rather than upgrading to the semi-sentient area-of-interest platforms because of the difficulty of verifying the objectivity of the algorithms. Unlike a news organization, State wants to know what's really happening, including all the boring stuff, the places where nothing ever seems to happen because everything is fine, the trucks arrive and depart on schedule, the grain sacks are full and correct in number. Systems evolved for realtime news pay attention to vocal stress, to rapid movement, to any sign of conflict or strong emotion. They tend to bias the feed towards drama, and that turns out to make it surprisingly difficult to understand how humanitarian operations are really going.

So Gregory has to piece together substantial parts of “everything is fine” by reviewing summarized logs, rather than having an auto-editor piece it together for him. Once in a few weeks he’ll catch something really important - missed hospital reports of infectious disease that somebody round filed thinking it was taken care of when actually there were similar cases popping up in the field, or a little statistical anomaly which means somebody’s embezzling on the supply chain. But mostly the job is very simple in intent: make sure that there isn’t a clusterfuck ongoing. Ground teams periodically go completely off the rails due to clashes of personality or sexual tension or religious conversion or some other human factor, and HQ can’t take the chance of having the press get hold of it before accountability has been ensured.

It’s a lot of waiting around for people to be idiots, frankly, thinks Gregory. But it keeps the family in blue jeans and tacos, and once in a while, Gregory actually saves some lives.

It’s a contrast from the old days, when the machinery on the other end of the link weighed metric tons and charged around on rockets kicking doors. Gregory’s shoulders tense like iron as old memories surface, kids running away from the machines as they go from patrol to engagement, fire flying. Unconsciously he massages the edge of his left hand, which used to occasionally chafe against a crack in a glove housing after a long day flying a front line engagement unit. The movement always meant shift was over.

Gregory gets up, stretches, and walks out on to the porch to find Peter and have lunch. They’re going to have to talk about the boy soon, and about whether or not he’s going to carry on Peter’s work or not. Gregory doesn’t doubt the kid is up to scratch, and he’s curious in all the wrong ways, but the family business is not simple, and Peter’s emotional attachments to his nephew may make it a poor fit.

But Gregory doesn’t want the kid to grow up not knowing what’s out there, locked in the rat race like every other victim, unaware of the shifts and tides of the world. He doesn’t want to lose his son to the illusions of the world, or to his brother’s mysticism.

Given the choice, though, Peter’s way is better than what Gregory feels he can offer. Better to live the dream, than to be disillusioned. Gregory doesn’t doubt that Peter would do fine with somebody else’s kid, but they’re family. Can he stay clear enough to do the job right, or will avuncular affection breed bad habits?

Peter’s sitting on a stump, checking messages.

“Lunch?” “Yeah, let me phone the kid. Is Helen joining us?”

Gregory thinks about how to broach the subject.

“No, she’s having lunch with the girls.”

There’s a long pause. They both know. They always know, sometimes one a little before the other, it’s implicit, intuitive. Perhaps more than normal between brothers.

“Peter, why don’t you take Harry for a couple of months next summer. I think he’d like to know more about your life, about the stuff you’ve done, and I want his eyes opened before school, before national service. I want him to have options.”

Peter pauses. He knows there’s only a few minutes before the kid is back, and it’ll all be sandwiches and lemonade and some riveting tale of fishes.

“Greg, I’d love to, but you know that if he follows me, he’s going to have a hell of a life. You know how it’s always been with me—right place, wrong time, no excuses—years of hell in India, years of trying to put the pieces together. Do you really think he wants that? He might stay on the straight path yet.”

It’s formulaic, Peter thinks. They both know the outcome.

“Yes, he might, but I’ve seen him out of the corner of my eye, watching animals. Fades right into the trees. He’s born to it, we carry the blood, and I know you’d keep him out of trouble Peter.”

Harry arrives, sandals in hand, socks stuffed in his shirt pocket. To both men he looks young, they see him as he was at seven or eight, a time of pure childlike innocence. He’s older than that now, but right now, they only see the child. If he knows the weight of what’s being discussed, he doesn’t show it. He saunters into the kitchen, opens the fridge and examines options. Peter nods.

“You know what they do to kids in the army these days, Greg. I guess we give him a fighting chance of being his own man.”

It’s settled. Hopefully they’ll never get caught. They go inside, and eat sandwiches, and ponder the war watching the kid grow up in front of their eyes.

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At fifteen, all of the boys and an increasingly large percentage of girls (it's voluntary) take a year long cadet training. They stay in their high schools, but over the course of a year adopt uniform, drills, salutes, discipline, a chain of command, rank-and-insignia (randomly rotated) and, towards the end of the year, combat drills. The combat drills use a very similar technology to common games systems - goggles, direct electronic stimulation of the vestibular system to produce balance and orientation cues and complex spatial audio. Civilian systems seldom bother with gloves, and the cadet systems have only very basic tactile interfaces - pressure, grip, vibration - no force feedback. It saves on maintenance, force feedback systems require a ton of calibration, and a software error can mangle a finger or even an entire hand on a real military rig.

They simulate both kind of combat - in-your-skin and in a robot body. Although the prediction has been for years that eventually jockeys like Gregory will comprise 100% of the US Armed Forces, there are too many jobs which simply require somebody to stand there with a node checking that items are physically present (military gear can't use locator nodes) or talking to people about what's happening—field synthesis of information with full context forces the brain to work faster and make better decisions than remote sensor feedback. You just can't fool the limbic system into understanding the gut feel of the situation without smell and body language. The locals, rightly enough, refuse to treat even fairly humanoid combat robots as if they were people. You can't really win hearts and minds from within a half ton steel carcass even if it's got a very advanced face of a man and a

melodious voice. It's still a tank in the minds of ordinary people, something the brass—never being allowed near the non-combatant populations for fear that just a few of them are switchers—never seem to understand. You just can't command loyalty or change belief systems in a robot.

So main combat is still 40% robots, hovering seas of drones and lesser nodes, little insects covered in sensors and passive energy capture systems, and occasionally orbital sensor and gun platforms. But the weak link has always been the men, always been our side versus theirs. The enemy, whoever it happens to be, never plays nice and lines up in big, fat formations right in front of a line of armor. The increasingly blurry line between civilians and combatants, the Geneva-excluded “switcher” populations who will hit targets of opportunity while bowing and scraping towards State for funds to rebuild their shattered lives, leave only one option: an army that's all tooth, and no tail.

America knows, without a doubt, that this may be a fight to the finish, a war without end, and America is armed, girded and warded, to do what has to be done.

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The kid is 15. He's young for his cohort, so he won't actually start cadet year until he's almost 16. It's summertime again. They've fallen into the routine now—first few weeks of the summer the family spends alone, Helen and the girls fussing over the boy until it's time for Peter to arrive. Peter spends a few days hiking with the whole family in the mountains near the summer house, then the men take off on their own for a

week or so, then Peter and Harry leave for the next six weeks.

Peter is training Harry in the hope that his personality will be strong enough and refined enough to survive the shock of the conditioning processes of the cadet year. If anybody understood the family's intention—to produce a child capable of dissent, of doing something against the National Interest as defined by the chain of command, even in uniform—to produce a man capable of disobeying direct orders, in fact—they'd all be prosecuted.

Gregory understands all too well what the stakes are. His generation's experience of war was heavily shaped by soft propaganda, a lifetime of exposure to a culture which was meant to make it very clear what right and wrong were, and where real power, goodness and wholesome values resided: with the National Interest. But what they do to the kids these days goes far beyond that. They make sure, without a doubt, that their minds totally internalize the chain of command, the concept of the higher authority embodied in the America and its values, and above all the need to be parts of a smoothly functioning war machine, something capable of maintaining all that's wholesome and sacred in integrity and power.

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Peter and Gregory sit by a smoky, damp camp fire. A little drizzle in the afternoon dampened the fuel they gathered from the forest fall and the fire in the early dusk is anaemic. Harry's fussing with it, grown taller and stronger than either man can really see. Wanting a little space, they send him down to the stream to get water.

“Last chance, Peter.”

Gregory is concerned. They’ve taken a decision, to break the kid out of the system before he even knows what it is. To train him to think for himself, so that a generation of draft-oriented psychologists won’t make him believe the National Lies. Everybody goes through it, and it’s producing a society of slaves.

“Greg, it’s not a fast or certain process. In the old days, you know, they were raised this way from 8 or 9, usually with their grandfather holding the keys. It’s not as if we really know how to do this faster, or in this world. He’s got the summer, six weeks, and he’s kept up the work at home, right?”

Gregory knows, full well, that the kid has worked his ass off. He doesn’t, can’t understand what the old men are plotting, but he’s been raised with the stories of Peter and Gregory’s grandfather, a Native American medicine man who fell in love with a white woman, settled in Kansas and drove a pickup truck. Papa had been every inch an ordinary American, he’d given up whatever Native identity he had when he married into white culture, suppressed it almost willfully with a six pack a weekend and a love of baseball. All American.

But to his sons, and a little less to his daughters, he taught the secret history: imperialism, genocide, COINTELPRO, the rape of nature, and the death of the world. He’d lived through the nuclear age, and watched world peace slip out of our fingers over and over again.

He passed this to his son Frank, and then in turn to Peter and Gregory, and now they were passing it again to Harry. The seed understanding that “this is very wrong” raises the question “but what is right?”

And for a man to seek the answer to that question, to make up his own mind, is a crime.

“He’s not ready yet, Greg, but he’s going to be in good shape by the end of the summer, I think.”

The air hangs heavy.

Peter says the unthinkable. “I think he’s going to go all the way, you know. I think he’s going to have to. His generation are under so much pressure, and they need somebody to break through. We all know that change is possible, but they’ve done a very, very good job of making sure that there’s nobody to lead it. I think he has that spirit.”

This is what Gregory had been afraid of, but it’s also the price of the training. You want your son to be free, to understand the world by his own lights, and soon enough he’s enrolled in the Army of Freedom, not a cadet, but tied up in an even older mess, an Army that may well date back to the paleolithic, passed hand-to-hand, mouth-to-ear for as long as there have been stories.

Peter continues.

“We don’t know his destiny, we don’t even know our own lives, Greg. But we can’t deny the people freedom because we’re not willing to make sacrifices. If he’s take the spear, he might make history. God knows somebody has to.”

Harry’s timing is always uncanny. It’s one of his gifts.

“Spear?”

I am 15.

My uncle and father are, if not medicine men, descended from one. We’ve forgotten all that Papa knew, other than the history and some of the politics, but Peter’s spent his life recreating it, not working from the Native sources—Papa closed the book on that! - but India, China, Jerusalem, Africa, trying to find the sacred thread that ties us all together, which could be renewed to build the future.

They don’t think I’m the Messiah, but they’ve failed themselves - eked out little lives, father still working for State monitoring in Africa, herding bots and people, trying to lessen the impact of our wars. Peter’s a nomad, which is a polite way of saying a bum, making a living pedaling smalltime amounts of dope and occasionally mystic knowledge, stopping by on communes and ranches, working a little, waiting.

My sisters are 8 and 9, and bright and precocious. But I would think that—I’m their brother, and they’re blond haired, blue eyed icons of privilege. At least I have dark hair, something of the blood.

Snap to focus. Peter’s drawing a circle on the ground, about 5 meters across. Dad’s sitting in meditation. He’s never really mastered what Uncle Peter knows, but they trained together under Papa for a few years, and Dad never let it go entirely. Peter-the-magician.

“Magic is the story of the world!” proclaims Peter, to nobody in particular, as dad walks around the circle, with a stick of sage and a tea kettle filled with stream water, muttering.

I feel the cynicism recede. Hokey as it all as, I've seen what Peter can do. Last summer Peter and I spent three weeks in San Francisco, much of it stalking police men. Peter simply followed cops on foot, in their battle dress, rifles slung low, and walked two or three meters behind them on darkened streets, listening to their conversations as I wondered why they couldn't see him. They'd stop on a corner and he'd come right up behind them and ask for directions or a light for a joint, and they'd visibly startle. He played it with a straight face, which in its own way was even more impressive.

The rush is here. I feel the air go still, and time stops. Everything contracts into the familiar eternal present as he makes the invocation.

"Do what thou wilt shall be the whole of the law!"

"I stand here, secure in my personhood, the living spirit of the undying god manifest through time and space into eternity, every level of my being serene and united, beyond-stories, beyond-time, immanent, present and manifest, and I am secure in my freedom."

The words, even in this place and time, never sound hollow. I note dad's backpack has a bunch of technical junk on top of it—broad spectrum jammers in case some forestry drone wanders by and whistles back. Secure, indeed.

Peter and Gregory look like gods now. They're old to my eye, but I see the force and wisdom, and even their bodies seem eternal, renewed with force and vigor. Peter carries a fair bit of it with him all the time, scooting across traffic like a teenager on a skateboard, or hauling up a tree. Dad's only like this in a circle, during ritual. It's only the second or third time I've seen him, and

I don't know if he can do it alone, without Peter leading.

Peter asks me, as Dad finishes the quarters, whether I know what The Spear is?

"No, we've never talked about it. Dad's never mentioned it. Something native? Hitler's spear of destiny?"

"Thelma, Peter, the Way of Freedom, has within it a concept of a spear or lance, something fundamental. European archetypes, the Lance, Arthur, Camelot, the Grail myth, the whole bit."

The slight cynical flash again. The tea kettle of water is a chalice tonight. Boy campers in the woods playing shaman.

"We're all the world has left, standing between the rest of our species and the end of all life, Harry. We don't know how many others there are, but as they digitize life, as they take up nature and make it into a pet, and wipe out what they cannot control, we become increasingly responsible for outcomes."

I want to say "and what have you ever done about it?" and I know what he'll say if I open my mouth. "I trained you."

I've seen where this is going for a few years, Uncle Peter's sense of failure turning into a desire to pass the torch. And he's right—I'm smarter than he is, at least in book-smart terms, and I'm physically gifted. Not much facility for machines, I still lag too much when driving a simulator to really compete with my friends, but I'm fast in the real. I could do great things.

If this was a century for that.

"Uncle, what are you suggesting? What is the spear?"

As I ask the question, it rises up from the base of my spine and hits me right in the heart, right in the chest. I see every tree propelled upwards by the Spear, I see it in my own cock, I see it in snakes and eels in oceans. My mouth opens and I hear myself say

"Conscious life."

Peter goes limp, and father sits down heavily.

Peter pauses for a moment, then rummages around in his pocket and brings out a phone. He shows my my own face.

I look like a god, there's a radiance, a glow in my eyes, and a fire. I look charismatic, gifted, heaven sent.

We don't say anything. I feel it click into place in my personality, my energy, almost in my bones.

"I am the spear."

I'm not dumb. I know this kind of stuff passes, but it leaves traces, handles for history my uncle calls them. And I know that you roll with it, at least until you feel yourself going over the cliff into stupidity, cupidity or madness.

He makes a fist, making sure I see him cock, and hurls it full force towards my face. I step back and turn, intercept at wrist and elbow, and brace.

We freeze. The motion was completely reflexive, thoughtless, and perfect. I'm empty.

Dad comes up behind Peter with the tea kettle of stream water, and I look into it before I drink. The water is frozen time, static intention, a reserve of nourishment, I see it as every animal or plant from the time before language saw water, and also as a scientist, hydrogen bonds and viscosity and micro structure. When I drink, it is cosmic. I'm all life, and without this, I will die. I imagine, perhaps, that I can taste the micro tox-

ins, a trace of pesticides and heavy metals, and also traces of the tongues of the wildlife upstream—wolf spit and deer feet and otters and squirrels and above all plants.

Sacred.

Dad's teared up, and Peter hangs his head and breaths.

"Peter, thank you" I say, and I realize that he's been through this too, and he got as far as he got, and it's my turn now.

"How old were you?" "I got it at 22, Harry. But your generation do everything much faster than we did, and your dad gave you a better start than mine did."

Grandparents. It's supposed to be grandparents, but Frank never got it. I think about mom and the girls.

"Can women do this too?" "Yes, but it's different for them—the Lance is secondary. Men kill as a primary primal activity, and women create. Both genders, both roles. The lance for a female helicopter pilot would make sense, but your mom plays the fiddle for a living."

Dad sniggers. It's a family joke, she's actually quite a senior classical musician, but I see it all from so many perspectives right now.

"Will you teach the girls, Peter?"

"I don't think I know how, Harry, but I'll try and find them someone closer to their frequency and mindset, if there's an interest. I'll take the first step."

I'm feeling the energy collapse, normality beginning to break in. I'm relieved. This has all been a bit much.

I sit, abruptly. An expression of concern flickers over father's face. Peter starts to close the circle, a rod picked out of the fire, still smolder-

ing a little, traces the pentagrams as he closes the circle.

"May the mother and father of all that lives support us in this work!"

The three of us recite, from the heart.

"Love is the law, love under will."

I wonder what it means.

The next morning we hike back to the road and catch a ride home. It's done, we don't need any more time in the woods this trip. Peter suggests we borrow a cabin from some folks who live about an hour and a half from the music school and spend a few weeks up there, see mom and the girls on the weekends, and spend some time in town too. Somehow that sounds better than hitting the road in the little green van and seeing more of the world. I want to see home, familiar things with these new eyes. Perhaps from there I can make more sense of it.

Everything and nothing changed. I'm exactly who I was before, but now I recognize myself in the mirror.

All life, on two legs, and not two braincells to rub together. I am 15.

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The cadet process is mostly social. At first it's a game, a role-play. We're still riding to school on our bikes or dropped off by our parents. We arrive in street clothes and change in the gym. Two hours of physical training before lunch, with a leisurely discussion with the two senior cadets and the sergeant about whatever's on our mind. Values, danger, risk, bravery, the war, but also dumb stuff - where are they from, what's their favorite part about being in the service, all of that. The afternoons are regular school work, but from a different syllabus. Economics, geography, history, bits of Spanish and Portuguese, what I'd later recognize as a Colonial education like they gave the British officer class. You have to know the people you're going to be fighting. We're chatting casually with the Senior Cadets and the Sargent before lunch.

I ask "What's the meaning of the cadet training to you, Sargent? What did you get out of it?"

He's about 22, although he's got a surprising amount of assurance for such a young man. He's a lot more solid than our teachers are. Buzz cut, blue eyes, a square jaw. He's muscular, but more a climber than a weight lifter. Even the Senior Cadets, only a year or a year and a half older than us on paper, move with a purpose and discipline that leaves me cold. They're probably the best of their classes - teaching is, after all, recruitment. But I also know that we don't grow up naturally that fast in a year. That's conditioning and drugs, shaping them into little soldiers. That's what Peter and dad were armoring me against by pushing me so far so fast so early. When they condition me, it won't take. I won't let it.

I will not become a cookie-cutter killer. That's not my destiny. I know that now.

“To me, Cadet, it’s about service, and about values. Like you, I had to do Cadet service, it’s part of how we all live. It’s a core part our education for life. But I’m from a family of sailors, my forefathers fought in world war two, and we’ve often been in the service since. We all enjoy the benefits of this society, but if we can’t fight to preserve it because we’ve gone soft, pretty soon it’ll be machetes and machine guns all over the world. We’re really important, to the way this country works, and to the world.”

Hands raised, indicating questions. Julie, one of the two girls in the group. He nods, and she speaks. “I think it’s important to remember that we’re showing people our values too. We’re not making war for its own sake, we’re trying to keep the peace, fighting for the world’s future, to make it a better place. It’s not just about defending our country. It’s about improving theirs. Saving the world.” Predictably enough, she looks smug and self-satisfied. I see her for a moment in the far future, in a blue suit, a future politician. Mentally rehearsing her lines, the image. Future ambition written on her face. She’s an idiot.

I shake my head for a moment to clear the vision, and focus. I’m looking for cracks, for flaws, for weakness.

“I don’t see what’s brave or dignified about driving robot tanks through slums shooting poor people. My father was Armour, and he says that the war was a mismanaged, stupid mess in his day.”

Of course, we’re only kids. We have radical ideas, radical opinions. We’re trouble. Sarge fluidly blends with the criticism “Well, in your father’s time it was a huge mess in Africa, wasn’t it? We were only in the early stages of our mis-

sion to Africa, we’d never really learned how to deploy remote-drive forces effectively in a less-than-total war scenario, and mistakes were made. Did your father stay with the Service to make things better?”

Seamless. A councilor, an empath with a crew cut. There’s nothing to push on, nothing to move against.

“He’s with State now, monitoring aid projects. He drives from home most of the year.” I say, defeated.

“So he did stick around to improve things, still serving our Nation. That’s very good. I’m sure you’ll make him proud.” I have a momentary sensation of powerlessness, confronting The Machine in the man in front of me. He’s not as smart as me, he’s probably not as good at a lot of the things that as I am, and I’m going to surpass him on every front by the time I’m his age. But, right now, he’s got the upper hand because they sat him down and drilled him for months in nonviolent communication, in manipulative psychology, in making people feel like he’s a gentle, kind force of good as he shapes them into cogs. I bet I’d get the same polished response from every other Sarge in every other high school in Colorado. He’s just too good to be himself.

This happens a lot. Training with the cadets, with Sarge, it’s clear they’re better than they have any natural right to be. It’s not the man, it’s the training. Over and over again I see this from him, from the Senior Cadets. They’re polished bolts. We’re nuts.

A couple of the guys, from longtime local families, lived in the area for generations, start asking about traveling the world with the service,

about battle. They sound like gung-ho idiots, eager to spill blood.

But the stuff that Peter said keeps going around in my head: not the men, the machine. Not the men, the training. They want to shape you into a component of the machine that kills the world. I think the rhetoric is old, out of date – as far as I can tell, and I’m no expert, we’ve stabilized the climate with—surprise—more machines. But I’m wondering, more and more, how you turn a 17 year old, just two years older than me, into a Senior Cadet.

It’s an education for national service. But I’m getting stronger, and I’m starting to put more and more of what dad and Uncle Peter said into context. The people in the service are like cells in an organism.

---

On the first day of cadet combat training, I break Jim’s nose.

It’s not a glorious start to the day but Peter’s trained me plenty to fight, but not to spar in pads. The Senior Cadets want to get a sense of where we’re starting from, as quite a few of us have martial arts experience, some of us are boxers and brawlers, maybe a bit of wrestling or store front dojo karate, so there are a series of friendly bouts to see where everybody’s at. It’s pretty rough and ready, not very serious. Real training starts next week.

I square off with my friend Jim. He’s lean, about six inches taller than me, and with a good deal more reach. We go running sometimes, and he can outpace me at the mile. We’ve never had a real fight, but we’ve poked at each-other in corridor brawls and he’s fast and fairly well co-

ordinated. I like him. We're wearing lightweight boxing gloves and face guards. We're asked to keep it friendly.

We're in the gym, on open mats - no ring. Jim closes a few times, and I jab, circle and retreat, keeping distance, getting a sense of pace. I sense I might be taking this more seriously than him. He's smiling and laughing, I'm focussed. He comes in hard and direct, regular jabs like a boxer, tries for an uppercut, and that one glances off the front of my head guard. It would have hurt if it had landed. I reply with with stabbing close kick, which he twists out of the way of, and he chances a back fist to the head, thinking I'm over-extended, which I am. In a compromised position, my instincts take over: I block the back fist with my right hand and trap, hooking my hand over his glove, and as he pulls back to free his arm, I reply with an unpadded elbow, expertly slid straight along his arm directly into his face, where it slips neatly through the T-shaped gap in the face guard in exactly the way a gloved fist would not, to bloody effect.

Jim steps back with a yell, "AAHHHHH!" and pulls off the face guard. It doesn't look that bad, but he's bleeding, shaken and red. The Sargent, however, is delighted at the unexpected action, and I realize I've made a mistake in distinguishing myself. He and a Senior Cadet clean up Jim.

I've known Jim since kindergarten. As we walk down the corridor to the nursing station, he kicks me in the ass hard enough to leave a bruise. He's being good natured about it. Later, in the nursing station, he says "I thought you were wasting your time with Peter's kung fu!"

I don't say anything. There's nothing I can say. I leave Jim with the nurse, and take my time walking back to the gym. It's not a major reveal,

nothing's really been shown. Of course, not everybody has an uncle who practices martial arts. But it's not an odd thing, nobody cares. If they knew what else Peter was teaching me... But they don't. Peter says my job is just to get through this crazy society and try and keep my perspective, keep my center. I can figure out what to do later. Senior Cadets are not the enemy. The Sargent is not the enemy. The chain of command is not the enemy. Humans are not the enemy.

Bad judgment and bad timing, perhaps, are the enemy. And I haven't made a very good showing today.

We return, and the class is taking turns boxing with the Senior Cadets who've completed basic military training away from home. The Senior Cadets are whip-like fighting machines compared to the cadets. The Senior Cadet's movements are almost identical, adjusted a little for build and height, clearly trained in machines. They look almost like robots. Peter told me about this—drugs and proprioception-modifying brain stimulation, load the basic physical training in as if you'd been practicing from the age of five. But it's very static, rotes and drills. "Mall karate on steroids."

I don't spar with them. Not today. But I watch, very closely, the moves, the pacing, the stance and the reach and see a few holes. I could take them.

Or is that me being fifteen?

Towards the end, the girls hit the mat. We've only got two in the class of 24, which is a bit lower than expected. The seniors send them sprawling, just the same as the boys. It's understood: the enemy, whoever they will be, kill girls.

Showering, I notice their bodies in new ways, reacting not just with the basic impulses of puberty, but with something older, and a lot more primal. All life, on two legs. I'm not sure what the hell Peter was thinking loading this on to a fifteen year old, but I know the situation as well as they do maybe. I wonder what Papa knew that he never got the chance to teach Peter.

Next year, I will be a Senior Cadet, unless I'm found unfit, and that's not likely. Faking is severely punished. And then I'll be in the war, on one side or the other.

But the next stop is very definitely going to be girls. I want to see what all the fuss is about.

---

Helen sets the table. They're eating later than usual, Greg's been finishing up work, and she's testy because she'd hoped for a nice family evening. But there's some minor crisis, and her husband's mind is in Africa.

Sally and Petra sit quietly at one end, drawing. The two little girls are both working on the same screen, hands dancing around each other, sometimes reaching over the top of each-other's arms as they drag images around on the screen in a loose collage, then join the pieces with procedurally generated filler. The scenes lack perspective (they're young) but are increasingly well-composed. Snippets of tunes attach themselves automatically to birds, some of the trees are "live" and swish in an imaginary breeze. They're bored and listless. Mom's tense and crabby, and dad's been at work since before breakfast. They know he's in the office, goggles on, ploughing through feed after feed cataloguing anomalies. Something about missing food,

mom says. Outside it's a grey day, not even rain. Upstate New York in October has nice days, but this isn't one.

Gregory comes down stairs at last. He takes a look at the girl's drawings, gives them a quick squeeze, then prepares to face his wife. Helen's cooking pasta, but only for four. Harry's on his first overnight with the cadets, and Helen knows that this is the start of a hard year of real changes. Increasingly he'll be a ghost in his own house, then for the Senior Cadet year, he'll be in barracks. The high school is girls and a few disabled or otherwise non-fit boys from here on. The two streams don't rejoin until college. Soldiers and civilians.

Gregory puts his arms around his wife's waist from behind, as she hovers over the pot. She's radiates tension.

"He'll be ok, it's just a camping trip." "With guns, and flashlights, and teenage boys standing as sentries. It's a military drill." She's a little defeated, not venomous. "All perfectly safe." Gregory wishes he was entirely sure of that. There are other factors to consider.

"It's not his body I'm worried about." A simple finality. She understands.

Helen begins to serve the meal.

The girls put their things away, and say a simple grace. It's something they've picked up from their religious friends, families which cleave to older ways of sharing food. Their grace is simple, a requesting the blessing of a blissfully vague deity of plants and animals. "Dear whoever made everything we're eating, thank you for keeping us all so well."

Gregory's pleased at their simplistic scientific doubt. They've not been raised atheist, but it's natural to children who's questions are an-

swered. They don't disbelieve in anything, they're filled with a bit of natural wonder and curiosity and a soft-headed gentleness and... Gregory wonders for a moment about his own beliefs, how he maintains an honest atheism while, at the same time, knows full-well that Peter's powers—mild as they may seem—violate reasonable causality. Not god but nature, but Nature...

As Helen serves the girls, under his breath, Gregory whispers a moment of what's become a creed. "Mother of hydrogen, thou art the void, the interstellar interstitial infinities are the expanses of your body. Holy are your ways, unimagined...

unknown...

and unseen..." Gregory's mind shifts gears for a moment, and he sees the scene as he knows Peter would, ancient, cosmic powers formed into his wife and children and himself, play-acting a world without end on a constant, ever-moving stage.

He sighs deeply.

Helen thinks he's thinking about the boy, and in a sense he is, but his mind is locked into the present. Rising, he picks up Petra from her chair in a resounding hug, and carries her to the refrigerator. They gossip affectionately and theatrically select drinks for each member of the family, then each carry two glasses back to the table, sparkling water and lemonade. Gregory's filled with gratefulness for the simplify of the scene, as his son prepares for what may become a very trying weekend indeed.

"Stay hidden." He wills the thought on Harry.

Helen's mood improves over dinner. She's thinking about the girls. They are not twins, but they've got a very good rapport and genuinely

like and enjoy each-other's company. The gap in ages doesn't seem to matter, they take turns to lead. They've managed to be sweet and innocent without being cloying or foolish, a sort of benign realism. Helen realizes, thinking about it, that they're level-headed largely because of Gregory's insistence that Helen is open with them. She's a field biologist by training, who neglected field work in favor of music and wound up in orchestras and then education. She'd never thought she'd wind up as a professional musician, but a certain diligence and social grace which lent greatly to the cohesion of often complex emotional dynamics among musicians had made her an asset in ways that went beyond mere competence or raw talent. But the girls had grown up on doubt and biology, Helen's basically scientific underlying frame of reference, and a certain open-minded curiosity had grown out of it. Gregory in some ways treated them like little adults but, on balance, tough as it had been in earlier years, it was good. They'd handled their religious friends very gracefully, and taken what suited them from the interaction.

Helen realized that she is proud of them. She's proud of her family. It's a very ordinary moment, but for a moment, everything is just right. She smiles at Gregory, and it's all fine. Things are just as they are. She loves them.

World without end. The moment doesn't last for a moment more. Petra excuses herself, gets the slate and together they start on a new picture, this time more musical, birds arranged on telephone wires, like a score. Helen starts to clear the table, and mentally starts to plan tomorrow.

Gregory does the dishes, and wonders what the odd cosmic flash presages. Probably his son is active, doing something subtle to reality. A moment of force? He'll call Peter later, they should probably check in. He opens a bottle of wine, pours two glasses, and thinks "we can talk tomorrow."

---

I'm in in New Jersey, the Pine Barrens. Our school's cadets are camping out in the October chill with cadets from a couple of dozen other schools, over a thousand all-told. It's a fairly festive weekend event. I haven't been at it very long, six weeks, and it's all still a bit strange and theatrical, but there are a few dozen Senior Cadets and they manage to add a certain gravitas to the whole thing. I'm still fascinated by their solidity and maturity, from just a year.

A Colonel from the real army addresses row upon row of boys and fewer girls in near-identical parkas. An array of small flying nodes amplifies the message convincingly. It's like he's 10 feet away from you, speaking straight to you, for a thousand people at once.

Harry listens with interest.

"We have learned the lessons of history, and we know that it is incredibly important that a free society is defended by a representative army, one which comes from all walks and stations of life, one which comprises citizens of every belief system, ethnic background and geographical loyalty. To defend freedom, and your country, is a right, not a privilege."

It's not difficult to pick holes in the argument, but I have other things on my mind. Specifically, there are a lot of girls here, and while the sur-

face environment is all very regimented and disciplined, we all know that a certain amount of mucking about is a reward for keeping it together in the official events. Dad says that it's important to build a big network fast in a new organization, and I've taken the advice - liaison role between our school's cadets and those in the district. There's a collab and conference calls a couple of times a week and an online workspace which is, thus far, architectural renderings of each school on a US basemap. In my "personal effects" pouch I've got a fifth of whisky (legally purchased, I'm 16 now) and two joints (also legal, but I can't buy them, thanks Pete.)

The Colonel continues, heartfelt and sincere, logical, rational and for all of it, wrong. Dad's been out there, he knows what we do, and it's not true that we're sorting out the mess we made in the last century and atoning for our crimes by shedding our own blood to protect the helpless or whatever the party line is. We still interfere, we still kill, and it's not...

Whatever.

Twenty minutes later, it's mess time. Each school cooks, a group of four or five prepare food, and the other cadets are individually assigned another school's tent, decked as a mess hall, to visit. Hospitality and broad contact. The selection may or may not be random. As people fuss backwards and forwards, running around searching for a replacement ladle or a misplaced backpack, I walk to the assigned meal with the other district liaisons.

The tent's set back against the tree line, perhaps seven by twelve meters, a grey-green plastic canvas with a thick liner of technical insulation behind it. I see lights through the windows,

steam rising through a vent on one side from the stove. The tent flap opens and a tall, gangling man comes out, parka hood down, to drag in a heavy bag sitting outside the tent. I walk the last ten meters to the tent, and look through the slightly steamed-up plastic membrane windows at all the people, taking a moment. It's a bustle of activity, people sitting in a loose group beside a pile of backpacks staying out of the way of the cooks, while others set table and pour water into glasses. There's a busyness, a slightly giggly camaraderie on their faces. I want to like these people. The military grey of the clothing, the simple black of the bags and boots and the insignia seem insignificant against a first meeting with kids from all over.

I know names and faces, but as dad says "face to face first." Here they are for the first time. Two breaths, and I enter. I go the long way round, ask if they need any help at the kitchen. A guy about my height smells soup in a ladle and gives a broad smile "we're about to start serving, could you let people know?"

I sling my bag into the pile, and walk round the back of the tent to the group. About ten of them sit, knees up off the floor for the cold, bums on sleeping bags or jackets, six boys and four girls, talking while the others cook or set up.

"They're about to start serving dinner." One of the cadets acting as server says "two minutes!" over my shoulder, so I sit. The cadet to my right introduces himself, Martin Shaker. He's black, good natured, longer hair than I'd expect in a cadet. We shake hands, and he points his way around the circle giving names: Julian, Nyen, Daz, Emma, and... I'm gone.

Emma Bowen is the one I'm looking for. Blonde, 5'6" from a school about two hundred miles away, beautiful, intelligent and very nearly two years older than me. I think her family is a bit like mine, something in the blood. We've been talking a lot, eager to meet after nights shared testing values and framing questions, things we want to learn about life. Her brother is a full marine, two years older again, stationed on some base in Texas doing nothing very interesting, but it's a found of perspective to see what filters back into her the family unit. She's got a contagious enthusiasm for life, seems kind of unburdened by things. I'm acutely aware I've been made a little heavy for my years by what's happened. It's like maintaining a secret identity. She seems... straightforwards.

She's looking right at me from further away than I can make conversation. Nothing else to do, I smile and stare, and she looks back, smiles and waves. We rise as the circle breaks towards the tables, and shake hands. The electricity is tangible. We sit at opposite sides of one of the low mess tables, on the cold steel benches padded with sleeping bags, and eat soup. I begin to understand how seductive this all is—young people on all sides, from all places, meeting, exchanging ideas, broadening horizons, all in uniforms from their district, their region, their school and their heritage. A thin layer of conformity over “hey, how are you! where are you from?”

They really know how to do people.

But, right now, I don't care. The cadets chatter and gossip. The more diligent try to talk about the next year and the work the liaisons will do together. The less diligent talk politics, or fragments of military news or lore passed around as

wisdom, or try and have split-off side conversations about music or travel or holiday plans. As with all the other tents, there's no senior cadet or other authority figure present—they'll be along presently—but this time we have to ourselves.

I could eat her with a spoon. My mind is on anything other than my plans - our plans? - for later in the evening. We've talked about it, we said we'd see how it was in person, and my calf is against hers under the table, touching above the boots, pressed tight. We pretend to ignore each other and make conversation with our neighbors. I experience an odd split consciousness, one part of me hovers above it all, knowing that I'm in this camp ground being indoctrinated, made into a tool of the State, but on the other level I'm just a teenaged boy seeking out life, experience, happiness. The old men's game of transmission and revolution and showing the world what's possible seems... as interfering as the clergymen who want their sons to wear a black suit and go do a theology degree. I'm sure I would have liked Papa, but...

this is my life.

Right now, what I want is this girl right in front of me, with the slightly aloof manner and the fond eyes. The paradox frames itself very clearly: they've taken away a bit of my freedom to protect the rest. The two levels of my awareness don't match, don't fit. I don't care. I push it away. I file it in my brain for later, and return to trying to not make a fool of myself in front of Emma.

She's beautiful. I knew that from vid calls, but in person, she's beautiful. Beautiful. Beautiful.

Things are a little different among the senior cadets.

“Colonel Gibbons, I would be proud to serve my country at home or abroad next year, but my parents have asked me to go to a college close to home so I can help them with my grandparents.”

I am John Gibbons. I am talking to the senior cadets at dinner, asking how many of them plan to stay in the service and complete their tour with honors by spending a year in the regular military in a non-combat role.

I reply curtly “Your duty to your family is important, son, we all understand this. Perhaps you'll consider other ways to serve your country after college. We can't all put family first at all times, but this sounds important to you.”

The atmosphere is open and frank. That's what works best. I'm good at maintaining this atmosphere. Tonight something prickles my scalp, a subtle sense of something being wrong, not the chilly evening or the swarm of fuzzy parkas and fuzzy thinking lapping up chilli in the other tents, but a deeper sense of... unease. Every year I come here, and have the same conversations with the same kids, five or ten basic faces over and over again, perhaps two dozen possible stories. There are charts and graphs and documents, instructions on how to play the role so that as many as possible volunteer, and those that don't are left with a clear sense of deference to those that do. It's how we build and maintain society. It's how we win the peace and prosperity that has, despite all odds, chosen to linger on America.

No, it's something else. It's the sense of being watched, but there's nobody there. I remember it from active service. It's the subtle pressure on my mind that comes from the enemy.

And there isn't one here. I'm getting old.

---

After the senior cadets have given us a short speech, and passed on some notes about our plans for tomorrow, we are encouraged to socialize. There are many large fires around the site, some with themes for conversation and activities, other unstructured. At each is a couple of senior cadets or a senior cadet and a regular military officer.

It's not hard for Emma and I to slip away into the woods. She makes a pretext and leaves for her school's tent, I leave a few minutes later, then double back to pick up my bag, shaking the conversation I've been part of. We meet as arranged, a hundred meters up a path into the woods.

If I play my cards right, I'm going to remember this night for the rest of my life. It is freezing cold, but we've got two and a half hours before curfew. Down at the camp site it's all boy scouts, and up here... she's holding my hand, stuffed into a parka pocket, and she's talking in a sing-song voice about the night and the moon and the trees and how she's been dying to meet me. I wonder how much of it is actually curiosity about me, or given that she's almost two years older than I am, how much of it is the power trip of... well, I'm a virgin. But there's no denying that the plan is on, the furtive discussions we've had until now, "talking to a cadet from another district about the first camp" are now prelude.

I've got a couple of insulated sleeping mats and bags swiped from my school's tent with me. She's got a small inflatable survival shelter with her, and a heating block, taken from her father's garage. We scurry a good few hundred meters into the woods, then turn off the trail and head for as much cover as we can find. It's dreadfully conspiratorial. A mission.

Electric. I keep having glimpses of slow time and shoving them back down. The mysteries can wait for another day.

We're here. This is as private as it's going to get. I have a dumb, last minute thought "I hope she's not loud" and then laugh at myself. I don't expect to give a star's performance, this is, after all, not a sim. She's fumbling, unfamiliar with the starter on the tent, then it starts to hum and inflate, and she tosses it on the ground. We haven't even kissed yet, but she's confident and direct. I'm not exactly nervous, but... there's a sense of something leaving. A pang...

And then she's in front of me, looking me in the eyes.

"Harry, I didn't think I'd like you this much in person, but I'm honored and excited to be here with you right now." Something's off, like she's reading a speech. Then I realize she's terrified too.

"How...?"

"One boyfriend, we're still friends, but he's not really my type" she says, for some reason. That was not what I was asking. I smile, watching the tent inflate behind her, the moonlight in the trees etching itself into my mind. I feel too aware of myself, try to shut it down to one channel. Just here. Just me.

"How do you know what your type is if you've had a sample size of one?" I say awkwardly trying to break the ice. Not good.

I'm suddenly aware of the difference in our ages. She was old for her class, joined a cohort below her, joined the cadets early and is very nearly 18. I turned sixteen less than a month ago. I don't feel like a child, but this is all very new.

We're talking about sex.

And then she says something that makes it all right, that makes it make sense.

"I want you to remember me and here as your first time. I wanted the chance to give that to somebody, and I really like you. You're different from most of the guys my age, even guys older than me. I feel like you're older."

And something changes. I don't feel like I'm sixteen. I feel... real. Something father said passes through the back of my mind "Helen of Troy was 15" and, yes, ok. I'm not a child. I can do this. It's fine.

I step forwards, our bodies pressed together gently through our parkas. I place one hand on the back of her head, the other on her waist, and I kiss her. And it's not fumbling around with a friend's sister at a party, it's not a sim, it's not somebody else's story, it's me, and it's her, and she holds my lower lip between her lips for a long second, then opens her mouth into mine. Her hand's on the back of my head, and the parka hoods meet, making a sudden, ridiculous darkness. We laugh, disengage, "try that again!" and I throw the stuff into the now-inflated tent. The last thing I clearly remember in the ordinary flow of time is looking at the time: 8:34PM.

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The Colonel is tired. Alone, the senior cadets sent off to their stations. He watches the various fires and tents on a remote, happy, smiling faces. This is not the boy scouts, long dis-banded, this is feeding the edge of the war machine. They might seem like adults in their uniforms, particularly the senior cadets who age two years in a day at at Induction, but they're children. Get them young, sort them for aptitude, set them forth upon the world. He doesn't know who he feels worse for, the mechanized divisions who'll live in suburbia and bomb towns on remotes, or the poor saps who go into the field, hauling bags of trouble with them, and spray fire into the bush indiscriminately when the sensors are down, hoping against hope they won't hit one of their own unintentional.

But what's the alternative? The end of the good times for everybody? The encroaching chaos on the borders south becoming the main-stream fate of all?

Nobody is tricked, and nobody is lied to. That's a previous generation's propaganda, and we're too open a society for lying to people to work any more.

We're giving them a chance to fight for their futures while they're young enough to adapt and do it well.

The Colonel suddenly feels better. It is true. He thinks about it, and it is a satisfactory way to think about the issues. He turns it over in his mind, and thinks about how different 15 is from 18 when you really think about it. Neuroplasticity. They aren't child soldiers by the time they have a gun in their hand: they are soldiers, those that make it, anyway.

A hot flask of coffee accompanies his rounds. He's actually quite pleased with the shape of the evening.

---

The heater block is amazing. We don't camp in the winter, we're always up in the mountains in summer for the music school. It's warm, dark, and we're mostly-naked, kissing and stroking and squeezed together. I'm aware of how cold it is outside of this little pod.

Momentum is building, but there's intimate discussion.

"How was your first time?"

She says "Oh, I hope yours won't be like that" and kisses me (to shut me up?)

She's thinking that it was a disappointing start, but not that bad, and too much alcohol and a poor choice of boy had marred her high hopes for it and it got much better later, true, that's true, sober and...

I thoughtlessly asked about her first time, and she said that she hoped it wouldn't be like that now and changed the subject, not forcefully but clearly it was suboptimal... Will it be like that for me? She seems so... assured... But distracted? What's

Suddenly he can't form a thought. She's slipped a hand down his pants and is holding his cock gingerly. There's an almost palpable snap in the air, some veil withdrawn, and Harry is suddenly very aware that he's a man, a child of men become one, and that there's something going on inside of him that cannot be denied. He feels feral. It hits him right in the chest, The Spear, and, beside him, The Cup. She is older, she is experienced, she is in charge, but... and

the tearing of realities is intense as the magical and the primal fuse into an extended moment. All hope of experiencing this as a teenager is stripped away, dancing blue symbols at the edge of vision form, fade and blur, and a snapshot of being in a cave, on fur, and brutally physically powerful, deep brows and jaw and and and...

And there I am, it's all back to normal, and I'm holding her head and kissing her and she's pulling backwards to get out of her panties and my pants are already gone and everything is rushed and I'm aiming for missionary, I guess, and I'm between her legs, below her and not quite sure how this part goes. I look at her for a moment on extended arms.

"Well..." she says, and it is awkward. And then it's not.

Afterwards, Emma's lying heavily on my crooked right arm, cutting off the blood, and I'm flexing slightly, feeling the freedom in my hips and lower back, getting a sense of how it all works, the Man thing, slightly alone as we lie there, aware of how suddenly I've gear-shifted at least in my own head from child to man and there's a certainty. I'm solid. This is... how people are. I'm slightly watching the clock, but we've got about twenty five minutes before the have to pack up and head back in by separate routes to separate groups. Don't be seen together. All planned out. I make a stupid joke in my head: this is, after all, a military operation, right?

I'm wise enough not to mar the minute by making a "clever" joke. Not a child!

Different levels of reality seem to be quite happily zooming along, almost independent. Not much a sense of funny stuff going on, although it must be. There's a wondering, an elongated

moment. Will we do this again? I'm lost in my head again, for a moment it's all about logistics, 200 miles is a long way, and then there's a moment of fear: what if this is it, she just wanted to break somebody in, and now she'll move on to somebody older or closer or... the split consciousness again, aware I'm thinking like a kid, but also that it's right to do that, maybe...

She kicks my leg over and adjusts the sleeping bags.

"That was fun!" she says cheerily, to my arm. There is a little grinding. "I know! Thank you, I really... none of the girls at home I know are..." I say to her neck. "Yes. We should do more of this."

So it's settled, that simple. It's not a problem. Probably.

Unbidden, a deep, radiant sense of well-being streams out of my chest and fills the tiny shelter. I know that nobody "loves" anybody at this age, I know that, I know that.

But I don't care. Lovelovelove. Radiance. Rightness.

There's something in the genes, there's something precise and powerful, and unbidden I'm squeezing her against me again, crushing her against me to feel her warmth in my arms, and I say "Good!" and I'm actually quite confident, for a moment, that it's all going to be fine.

She wriggles around to put her arms around me, wraps around a leg, and squeezes back, a little more distant, it's somehow almost just a hug, but inside she's well satisfied that it's all gone so well. This was it. This was what she wanted.

She feels good, aware she's made him very happy, quite enjoyed herself, and shaken off the memory of her own first time. It's sort of what

she wanted for herself, to have the first time with somebody who was taking the lead and nice and... there are more kisses, and a few more minutes of closeness before it's time to go.

Outside, minutes later, they're back in their social roles, packing up the tent, again uncertain of each-other and hesitant. It seems the magic is over. Then she notices a few stray flakes of unseasonable snow falling, dancing in the moonlight.

She takes my hand, and kisses it, and points at the snow flakes illuminated by the moon. It's all just so perfect. She turns to watch them.

I stand there, my feet on the ground, insulated boots against the cold earth. The breath flows in and out, hers and mine clouding together. Her back's against my chest, and we're watching the snow fall. I know the heating block is good for two more days, and that we won't feel the need for food until morning. It is beautiful. We are young, we are here. We have... it's an archaic term, but "made love" and I know that this is what I am. She's breathing softly, senses dilated by the beauty and the experience. I can almost feel my bones and muscles and will hardening and filling out, like a dragonfly's wings filling with strength when it emerges. I think of Papa, or my own parents when they were my age (not that they met this young!) and it all fits together into a wheel. Boy meets girl, boy gets girl, girl (not this one, she's safe!) is with child, repeat for forty million years and counting, every single one of us under snowfall or rain or the beating desert sun, counting the provisions and the shelter and the water and estimating the day. In these clothes, with this woman and a bag of food, we could walk to the sea in ten days, we

could fish and build a hut, or come to my home, or her home, or...

She turns around and says "we better be going."

Or we could go back to camp, pretending to be teenage cadets, not little flakes of the absolute in the perfect night, dancing with the old gods.

We hold hands for about a hundred yards, then she retracts into her pockets, feigning a shiver, and we have one last brief kiss and part ways. Next camp is a few months, and I guess... no, not now, not time to think.

I guess I'll see her again tomorrow I think as she tramps down the muddy path, and I skirt around the woods planning to emerge besides one of the other big tents, where I'll spend the last half hour before it's curfew and back to our respective school groups.

I make my way into the large, sparsely occupied tent, and sit down on a bench. The tent has a bit less than 20 people in it, unfortunately including the Colonel, who's mid-way through a story about meeting the President a few years ago, but he doesn't pay any attention to my entry.

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The cadet who comes in is carrying a bag stuffed with gear. He's extremely watchful and nervous. The bag is parked with forced casualness, usually that's alcohol (as long as they don't have religious parents, that's usually not an issue) but the bag is mysteriously light. That means sleeping bags, which means nocturnal maneuvers. Which is also, as long as nobody's been caught, a non-issue. Hypothesis formed: this can be ignored.

I'd have let it go there, but for the ease with which the cadet smoothly insinuates himself into the group, and glibly lies about having spent the last couple of hours talking by the fires. He fleshes out a semi-convincing history as naturally as if he's discussing his hairstyle. Curious, I sit a couple of places up from him on the opposite bench, and interact a little. A gentle probe of the story, quickly met with more plausibly deniable "facts." Fast infill and backfill of the story. Fluid. He's very smooth, very calm, very convincing while (child, child) clearly lying, not that his new friends would notice. Kids are so transparent. But he's an experienced liar, good at putting up a front with a facile ease which speaks of experience, and he's quietly burying a couple of stolen hours. So what's in the bag?

A little irritated, I make a quick excuse to check on something, because for all I know he's been rifling through other cadet's possessions grabbing untagged property. I pull a remote out of my pocket, surreptitiously capture a picture of his face, and run his back path. The remotes reconstruct his last few hours from passive nodes scattered on the site for security, and sure enough Cadet (M) Harry Vine and Cadet (F) Emma Bowen make their way into the woods, deploy a cosy little lover's nest (good equipment! shows up on IR like a beacon) and share a few moments.

I think to myself, as I put the remote away, that it doesn't really matter, but there's something about the manner of the kid, the careful covering of tracks, the planned rendezvous, which bothers me. He's just too precisely charming, a subtle, well-practiced front. Something not quite right. Family of crooks? I pull

the file, just a quick scan. Father was Armour, he's an army brat, old man is now State dept. still on drones.

A family history of trade craft.

Colonel John Gibbons stretches out a little and has a satisfied moment. Good kid. Operator. Flag and file.

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The next day, everybody's busy. So many things to do. Discussions, lectures, exercises, a display of marksmanship, a long run and inspection. Harry and Emma manage to slip away among strangers for dinner, but it's not the same - not wrong, but there's no time, no space, and when they talk it's all unspoken context and neighboring seats trying to make conversation. He knows they'll talk on vid soon, and in private and... 200 miles isn't that far, maybe we can cook up a pretext.

Then she gives him The Smile, and he knows it's all fine. Ok.

Later, at her tent, in the privacy of her sleeping bag, she looks at pictures of him and, yes, not bad, not bad at all. She feels warm, and has a little romantic moment, soon cast off. Too young, we're too young. But cute. 200 miles. There is a romance to it, though. Something fine!

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John Gibbons sends everybody home with a rousing hurrah, another generation of sheep, goats and wolves bounced around, flagged, tagged and monitored. Three more camps, they'll be full-time in dorms for the last quarter, and then Induction. Mr Sneaky's a bit of a star, thinks John, having made an opportunity to interact some more with the young fellow, and resolves to keep him in the program if reasonably possible. Armour's not really a place for a guy with a face like that. Hearts and minds, front line material. A face made for military PR, maybe? If they can keep him.

Late at night, as John updates a handful of files who had some significant outcome from the camp, he flags Mr. Sneaky's file: "Promising. Prioritize for territorial?"

It's not a big deal, just makes sure that the locals don't harsh the kid's mellow for not shining his boots right. John still isn't quite settled about it, but he soon forgets. There are over ten thousand cadets in his patch. If you asked him about it a month later, he'd be unable to put a face to the name, although he'd remember the story.

Files.

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We are standing in identical pods, 24 cadets, in the lab. The pods are about a meter across, a black metal mesh grid to stand on, and a sculpted black frame rising half a meter above our heads to an enclosing canopy. Inside of each pod are suspended goggles, gloves and a body harness. We're being instructed on how to suit up. First the body harness is put on, with some vital signs sensors and actuators for impact. Then the harness is clipped to the frame by some actuator cables which can pull you back and forth a bit. Then the gloves and goggles go on. The helmets have a system that electromagnetically stimulates the inner ear's balance systems, so you can feel things like falling or sloped ground. One thing we can't do is run: full motion systems are extremely expensive and it's fairly easy to break a leg without proper training. Commonly used, but not by us.

About half of us have done this before at home for games, sims or movies, although without the enclosure, so it's familiar, but those from poorer or religious families are being talked through the equipment by the instructing cadet. Some people just don't let their kids out of the "real world."

My dad's gloves were full force-feedback, like the body harness, but in full six degrees of freedom motion. That's what you use for driving war machines. These are haptic, they give sensation for grip, for pressure, but not for force. I put on the goggles, and they show the world around me more or less exactly as it was, a slight shift in perspective, the colors slightly off, but as I turn my head, they keep track flawlessly. It's almost as if I'm not wearing goggles at all.

They start insertion. The body harness tenses, and I'm fixed in space. The goggles shift, fading to white, then they show a simple room, about the size of a gymnasium. We walk around, looking at the virtual bodies of the other cadets. Each of us has a model which is taken straight from a scan of our physical bodies, so the models are as accurate as our baseline medical data. If you look closely at each-other's faces you can see that fine surface detail is not three dimensional, and lips are always wrong, they don't fully articulate during speech. But it's good enough that unless you're deliberately looking for problems, it works. You just get in the habit of not looking at people too closely if you're standing right beside them, and the illusion becomes pretty much perfect. Dad taught me a quick check for any point where you're confused: "Try and bite your finger: if you hit glove, you're still inside."

It sounds like a joke, but when you drive robots for a living, particularly under stress, sometimes the man dreams he's a butterfly, and sometimes the butterfly dreams he's a man.

Today, all we do is learn the gestures for walking, for running, for jumping and various other gross body movements which you can't do in the simulator with your physical legs. Some of the lads know advanced stuff from games, and are rolling, tumbling, spring-kicking and otherwise demonstrating physical mastery well beyond their real-world capabilities. Alice, one of the two girls in our group, has some kind of trick for gliding, it looks almost like she's ice-skating. I can't tell if that's some kind of bug in the system, or if she's got a ton of sim experience. Either way, we're all out in fifteen minutes for a quick walk around in the real world, goggles

perched on our foreheads, still in harness, just to let the noobs acclimatize a minute, and then we're back in for the rest of the day. Basic drills.

This goes on for weeks, getting everybody up to basic simulator competence, before combat training starts. Of course, a lot of us are already well trained by games, we're sleek, efficient fire teams and we have been since ten or eleven. I've spent so long flying sims on dad's rig that I could probably qualify for a trainee license.

But there's always that little bit of lag, little bit of hesitation in my simulation activities. I don't know what it is, I'm always just a bit outside of myself, don't fully enter into the reality of the situations, so I'm precise, but I'm not fast. In fact, I'm slow. My mind makes me that way. I found with games that I have to stay back and try to be strategic, because if I head round the corners first, I'm always in the wrong place at the wrong time, and I get pinned down by enemy fire or simply blown away. It's the one thing I'm well under-average at, and I'm not convinced that's something I can learn my way around. It doesn't affect my over-all performance much, I play a strategic role inside, hang back, pick off snipers, man the heavy weapons, cast the spells, whatever. I can keep up, I'm not a drag on the party. I'm just not the simulation king.

## SIMWAR

I'm doing dad's old job. We're lumbering around in three ton power suits, cadets clanging enormous metal feet off the simulated deck, feeling the room shake a little. I'm waiting to get started.

We've spent long enough inside on a regular basis that we're fully comfortable with the haptic and the vestibular drivers, it's pretty much "strap in and go" these days. I've improved my speed and sense of presence a bit, I'm starting to understand that it's my distance from the simulation, telling myself that it isn't real, that's impeding my reactions. I also wonder if it's family history, that this is, in some sense, my dad's job, my dad's world, and I don't want to compare myself to him. We've played games together and even if he doesn't really follow the whole scenario because he's just dipping in and out, he's deadly. Completely smooth and fluid, total awareness of the environment, no gap between thought and action. It's a performance, he doesn't do it for fun. Sims are work. But he's proud of his skills: first line expeditionary Armour and, as he says, he was about as good at it as anybody he ever met who hadn't been surgically modified for direct interface. DN jocks are our equivalent of superheros, the ultra-elite. You don't do that if you want to have a family life. I don't know if he ever applied for selection.

We're about to get going. The scenery's changed from the drone bay to a desert town. We're under a camo net canopy, surrounded by military vehicles. I can't hear anything, they haven't started properly yet, so there's occasional comments as people line up and form rows, but no sound from the environment.

Sim is go. The first thing we hear are sirens, and an over-the-radio "scramble and disperse" order. Seconds later a massive explosion sends us flying, taking out a couple of laggards who were fussing when the sim started. I flick my wrist to stand upright and run for the protective wall of a building, massive steel feed crunching into the dusty square. The town is yellow mud brick, with canopies out front of the stores keeping the desert sun off rows of identical apples on perfectly rectangular trays. Simvilians are completely absent. We're not quite sure what the scenario is yet, but that's part of the scenario. Radio commands come into the battle computers, maps appear on the head-up displays, ghostly outlines of the cities projected in our peripheral vision, tracks indicating our ideal positioning and formations, health dots for the battle group. Cross town, two kilometers, take a fortified building. Vehicle-mounted opposition.

The main difference between game environments and this one is that there's very tight synchronization between the unit. We play with people from all over the country, and it's not that common to play with the same crew for more than a few hours. There are tens of millions of games out there, entire artificial worlds sitting around waiting for paying customers to come by. Crowds flow in and out. Here, same kids, over and over. You get to know how people play.

I decide I'm going to do something different—run up a side street, parallel to the main group, provide protection to the main force. I don't really understand the line between initiative and disobedience, relative to the computer's suggested force positioning, and that's probably something they're trying to teach us.

Half a kilometer up the street, passing parked cars and trucks, I see the opposition for the first time. A group of four vehicles passes ahead of me, right to left. Armored cars, the unmistakable bulbous curves of composite Armour panels, arrays of rockets on top. The last of them has a microwave dish, almost two meters square. That means a beam weapon: trouble. They're past me in half a second, I have to review footage to know exactly what I've seen. I radio in to the group. They also saw them. Somebody lofts a drone—we should have done that earlier—and a live map update shows us two dozen vehicles, some with heavy weapons, between us and our objective. Some are behind us.

Alice is TBC - Tactical Battle Coordinator - our “combat chairman.” For small group ops we don't have a Sargent or a Captain—rank is entirely notional in operational space. We maintain that stuff in the class room because it's the bureaucratic form of the organization, but it's not how anybody fights. Computers don't work that way, and so neither do soldiers. Alice, indeed, has a ton of sim experience, she's been a competitive sports nut for years, and she's adapted to war very nicely. She's grown confident of her skills in command, and very pointedly said to a bossy cadet “the reason for women on the battlefield is so that the men don't stand around talking about who's in charge all day.”

Noted.

We don't have an extraction on this sim, presumably it'll terminate when we take the objective, so Alice decides we don't need a way out. Ignore the vehicles behind us unless they get into weapons range, maintain sensor coverage, maintain one group but keep a few meter's distance between us. She doesn't order me back into the herd, so I continue to run parallel, just to see.

500 meters from objective, an enormous explosion takes out the front row, three units down. Smoke obscures vision, and IR isn't much use because of the fires. Withering machine gun fire comes down the street from armored cars speeding towards the main group. I continue to advance another hundred yards or so, tee up a rocket, and wait for them to enter my field of view on the side street.

The main group have taken shelter in buildings and are returning fire, but humanoid form robots lose in firepower what they gain in mobility. Legs carry a lot less weight than wheels. The front vehicle is another bulbous plastic tank, a dozen interlocking domes forming a smooth light green carapace. It will have a similar internal structure, around an armored crew compartment. My rocket catches it squarely in the front quadrant, blowing it most of the way across the road, steaming wreckage. The vehicle behind it speeds past, and the next I pepper with machine gun fire. I run down the street looking to catch them from behind as the front vehicle unloads down the street with a cannon, smashing buildings to rubble searching for us.

I am getting better at this. The map shows four more vehicles up the street approaching fast, and more distant units swarming in. We've got about 60 seconds before more forces arrive, and it's clearly about to turn into a proper fight. I'm too forward and too exposed, so I back up the street, isolated from the group, wondering if I can hit the next tank as I did the last one. I get into position and wait for the converging dots on the map.

My “hand” is enormous metal spade studded with nozzles and protruding firepower, articulated by hydraulics, driven by an internal battery recharged from a tiny onboard reactor. Six hours of combat-level motion to 18 hours of recharge, a 25% duty cycle. Fresh batteries are the size of refrigerators, they load and unload from the back. We've done drills of reloading each-other's power. This model has mostly chemical-drive weapons: guns and rockets, rather than beam weapons. It doesn't actually exist, but even so, it doesn't take long for us to think about hardware we've never seen as completely real. These virtual suits are rough, simplified approximations of the real thing. No hydraulic pressure gages, no internal system monitoring, no food, water, wetware functions. An abstraction. So this is a game, not a real military trainer, but I begin to understand why people love armor, what the drone jockeys see in the business for. The sensation of power is, frankly, amazing. But it's still basically in my imagination. I can feel the mask on my face, feel the edges of the harness. I'm know I'm in school.

But if I was DN - direct neural - nano-electrodes in my head, I would experience this all as completely real, there would be zero sense of a “real world” and a “simulated world” because the limbic system is tied in to the simulation. A DN’s own body won’t let them perceive two worlds, a “body world” and a “mind world. The limbic system knows for a fact there’s exactly one world, and you’re looking at it. No abstraction, on reification, just a flat physical terrain. What you see is real. The limbic system is the part of us that cannot help but be convinced by our dreams. Pixels, or atoms, the limbic system doesn’t care: one real word.

Dad says that DNs don’t age well. They get to forty or fifty, their bodies start to age, but the machines get better and faster and more powerful every few years. They want to be more and more in the machine, and less and less caged in flesh. Sixty hours a month you can leap small buildings in a single bound, fly, raze a city block in fifteen seconds, throw a boulder the size of a car and survive getting flamethrowered. Then you get out of the life support box, and you walk slowly. Your body’s heavy, your joints ache when you run. It gets to them. They don’t age well.

Sort of a horror story.

I make a decision, and run back down the street, lie prone, and fire a mess of weapons towards the incoming vehicles, which reply with heavy machine gun fire. They’re almost on top of me already, but that means they’re closing a bit fast for accurate cannon on a prone target, and the round lands just behind me, cratering the road. My rockets hit the vehicle too high to stop its forwards motion, and it is not deterred by the grenades (against a tank!) or gunfire, and

I feel the massive impact as it runs right over the suit on the way to the main group, the following vehicles swerving round me.

With a hand gesture, I roll out of the street and sit up. Sensors indicate the street is clear towards the target, so I pick up and run up the street, leaving the main engagement behind me. Vehicles are criss-crossing the street grid unloading at our dispersed force, which is trying to avoid clustering and not having much luck setting up overlapping fields of fire. They’re not making much progress, but it’s just a game.

I find a small alleyway and jog up it towards the target. The sim designers put in funny little details—clothes on clothes lines, piles of garbage in back alleys, but no people. On impulse I force a courtyard door, stride across the paving slabs towards the house, up three low stairs then crash through a sliding glass door into a kitchen. There’s a stove, with an eternally boiling pan, cupboards which don’t open (they collapse to debris when I touch them, which strikes me as lazy.) I move to the next room. Inside there’s a couch, a TV, some extremely generic framed pictures on the wall (clip art) and a slowly spinning ceiling fan. To the right stairs to the next floor, which won’t take the weight of the suit, and to the left a bedroom.

I walk to it. There’s a sleeping child in a cot, completely static. No animation, no movement, a fixed rendered object like the furniture. I don’t try and touch it for fear it’ll die just like the cupboards disintegrated. I can’t imagine what its doing there. Left over model from a simvilian-filled scenario, no code driving its behavior, possibly. Mis-tagged, perhaps the model database says “empty bed.” People as furniture. On impulse, I grasp the corner of the bed carefully

and turn it over. The child model remains glued in place, a static part of the frame. I put it back down. It’s a bug.

I check the map to discover the vehicles are gone, the group’s half dead, mission aborted.

“SIM EXIT!” I remove the goggles, and look at the world funny. Bugs.

I hang up the gloves and unclip the harness, then remove it.

We file back into a classroom and sit down. There is a debrief.

Alice says “Good idea taking the flank, Harry. Nice shot on the first tank too!” The Senior Cadet nods from behind her, where he’s taking notes. I guess that means it’s initiative, not disobedience. Will try harder next time. Nobody asks me what I was doing in the house.

Later, when I go to sleep, I dream of my father coming into my room when I was small, and slowly turning my bed over. In my dream, as he turns the bed over, I slide on to the floor and wake up crying, and he is relieved that I did not stick to the bed like the model.

In the morning, at breakfast, as I drink fresh orange juice and he butters toast, I ask him about the dream.

“I’m not sure, Harry.” Then he reaches over and squeezes my arm, as if to make sure that it’s real. Catching his drift, we both raise our hands to our mouths, and bite our fingers.

Just a dream.

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Uncle Peter has arranged to visit us in Upstate New York. This is unusual, but not unexpected. It is, after all, Thanksgiving.

So much has happened since the last time I've seen him. Emma, setting in to being a cadet, the sense of being different now. I'm eager to see what he thinks of it all.

He flies, which is unusual for him, and a taxi drops him at our house a little after nine. I imagine that he's parked the van in some long-term airport parking lot, his home just sitting there like any other car. When he comes inside he's wearing a backpack and an olive-colored jacket with a big fuzzy hood. The girls greet him at the door, and he picks them up in turn. "Peeeeeeter!" says Sally, Petra joining in on the "eeeeee". They repeat this several times. Mom stands to one side of the scene, watching him. He looks up to me, says "hi sport!" and takes off the bag. Mom takes it from him, with a grunt, and places it in the coat & shoe filled mud room by the door. The girls are on their way to bed, and they draw out the scene at the door as long as Mom will let them, then she takes them upstairs.

Dad and Uncle Peter retreat to the living room, and I join them both in there while Mom puts the girls to bed. They're sitting in two furry ochre arm chairs, I'm sitting on the edge of the fireplace. The stone is cold, we haven't made a fire tonight, but the room is warm.

"Well?" Peter says?

"So far so good!" His slight smirk means he's asking about Emma. I haven't seen her since camp, but we're talking and making plans for next weekend. Six weeks feels like three years, but the waiting's almost over. We don't get a lot of free time, not enough for a weekend trip. Cadets.

"East Coast Cadet Convergence in New York

City. Optional" says Dad. "But I booked them a hotel room."

We'd talked about what happened at the camp. The old man seems a bit bemused I'd wind up with a girl who's so far from here rather than some "local chick" but he's tolerant enough of it. I haven't mentioned the unusual bits of that weekend, though.

"Her parents aren't religious, and it's not really their business anyway" he says. Peter approves.

"It's funny." I don't want to go into too much detail with Dad here, but I'm not going to wait to talk to Peter about this. This is urgent. "When we were together, there was a lot of magic—I had a couple of moments where I was in a cave, thousands of years ago, or something from those times was with me. I saw pentagrams in blue outside of the tent, and there was a moment with a whole host of beings watching."

Peter clearly gets the drift.

"Magician's first woman" he says sagely. "She do any practice?" says Peter. "No, nothing. But she's not a mundane, there a spark there, some kind of insight."

Peter sighs. A heavy truth. "Kid, at that age, they're so hot that it's all magic. Women who'll grow up to be bear-and-cubs and wear slacks to their first daughter's first wedding were once magical faeries who could light up the world. You can't judge character until the blush is off in, hm, 10 or 15 years." He's trying to give me a wake-up call, but he's also bitter. He's alone.

But I get the point. "Noted."

Dad tries to lift the mood. "Looker, though! He's done well."

Mom comes in and says "I bet she feels the same way."

"What about you, Peter? Are we going to find you a nice second wife and settle you down?"

Peter smiles, but there's an aggressive edge around him "I never found a woman that could stand me Helen. But I am not too old to have given up hope. Perhaps I'll play house somewhere nice and settle down with an old flame..."

I sense a sadness in him that I never want to feel. He's traveling because there's nobody to come home to. A million strangers faces, or these places he stops in to help out, to keep an eye on things, to teach a little, but there's no roof over his head, no dog on the rug, no larder. I wish I wasn't so aware of his feelings. We are connected.

Mom sits on the couch, and dad makes the symbolic gesture of throwing her a blanket, but doesn't join her. "Peter, Harry's told me about something that happened at the end of summer, some kind of minor vision he had when you were camping. Greg was there too."

"Yes, I know what you're talking about. The Spear."

She's not mounting an interrogation, but this is not friendly. I want to intervene, but know it's not time.

"What does it mean?"

Father answers, interrupting Peter's start. "Hon, you know that we believe in something—not science, not magic, not religion, but something beyond us, something out there..."

"Yes, but the stars are not people and 'God' does not talk to us, Greg. We've raised three, bright, reasonable kids so far..." and the unsaid part "and Peter is not a third parent." But she doesn't say it, she doesn't have to. It's my time to talk.

“I don’t have Papa around, and Frank was gone before I was born too.” Peter is all I have of Papa’s stories, or at least the trade. Dad was too young to see much of Papa, alas.

“I want something more than science, Mom. I don’t want the Church, and I don’t want our New Manifest Destiny, but I know there’s something beyond this. Look at me... where did all this come from?” I gesture at my face, my head, trying to convey some sense of myself as more than skin and bone.

“Honey, we all have times when we see the magic in things, some kind of greater plan, but that’s how apes are made. We dream.”

I sense that this is going nowhere, but maybe the stalemate is good. In this instance, as long as she doesn’t interfere, we’re fine. I know she doesn’t want me to follow Peter, but I’m not following Uncle Peter—he would have run away rather than join the service, even as a cadet.

She takes a different angle.

“I’ve seen stuff too. Your father was a lot more into all this when we first got together. I’ve seen it too. Bits of visions, I knew there would be two girls and I expected twins. Instead, a second pregnancy right after the first. I knew the shape the family would be.” I’ve never heard her talk like this, she’s always remained firmly outside of the circle. “I don’t want you to grow up believing in nothing, Harry, but I don’t want you to swallow this wholesale and go off on some kind of spiritual quest, the proto-Messiah or something either. Balance!”

We all know it’s final. It lands like lead. She said what had to be said, and it’s resolved.

Peter speaks next. “I’m not making him believe he’s anything he’s not, Helen. He’s as bright and capable as they come, and we know there’s something special about us, always has been.” He’s subtly insinuating that it’s in the blood, passed down from Papa, not quite her business. That’s not nice, but she’s also not taking it at his level.

“He’s not ordinary.” “He” is also right here, but I have to let that pass. “But he’s also not going to get picked up by forces that none of us can control and used as a tool.”

We’re in a whole new game now. The air comes alive, the slight shimmer of magic-in-the-wild. I’ve never seen mom like this, A Power. She’s talking the kind of truth that changes things later. “I don’t know what you think the men in this family are, what they carry, Peter, but I want you to know that it breeds true into the girls too. It came from Papa, but it’s not just in the male heirs. The girls have their gifts as well.”

She sits forwards. She’s thinking hard.

“But Papa was 35 when he married. He forbade Frank from going to the tribe, and you maintain that to this day. You know he said “I’m not an Indian any more, I’ve joined you white folks”. He burned those bridges, left his father and mother and sister behind. He left that family, and started a new one. And he wasn’t full-blood Indian either, half at most. That probably means this is not something in the genes. The kids are a sixteenth at most. The girls are pale, blue eyed and blonde. It’s probably not genetic.”

Dad and Peter are rapt. She’s putting something together they’ve never quite figured out, something in the family history.

“I think you have to seriously consider that Papa had something to hide, something to run from, something to leave behind in the old world . He didn’t quit and start anew because he wanted to live outside of Kansas city on a farm and haul manure and cattle feed for a living, Peter. And if that’s true, Peter, it’s not all some great plan, it’s a series of clusterfucks right at the beginning, to this day.” And once she’s said it, it’s obviously true. We can all see the gaps in Papa’s story like bad edits. Things he clearly left out, didn’t choose to say. She’s drawn a line through the dots, made the previous story invisible behind the clearly stated new truth. We can all see our understanding of our family history change.

“I don’t think he lied to us, but he clearly didn’t tell us everything.”

“Frank didn’t know enough to ask the right questions” Peter offers helpfully.

She steamrollers on “and I don’t want us to shape our son’s life around a family mythology, even if it might be true, until we really know what we’re dealing with.”

The gauntlet clatters on the stone floor. A challenge has been issued.

Peter declines gracefully. “This is not about Papa and Frank. This is about what we can see and feel, what we know, what is done, and what remains.”

But she’s forcing him into the open, cutting through the myths.

“What remains, Peter, is my son and his future. What does it mean if Papa was a fraud?”

There’s no choice now. This is going to get settled. I am secretly terrified. The clash of the angry gods.

“A lot of what I’ve taught Harry didn’t come through Papa, Helen. It’s India as much as Indian. The body culture is Chinese hermit tradition, if anything. Bits of Jack Parsons, Crowley, Moore, the others.”

“Books!” she flung back in his face.

“No.” And I see him rise to his full height, sitting right in the chair. He’s suddenly a mountain. Not anger, but a total calm certainty.

“There is a living tradition here, even in the West, even in America, even now, half way through the 21st century. Mouth to ear. It’s alive because I did it, every step of the old work myself, and I made it anew once I understood what I had done using the traditional practices. I don’t need Papa’s ghostly authority to do this, and I agree that the girls have it as much as the boys, and that more of it rubbed off on you than I’d have guessed from when you and Gregory were working.”

She acknowledges. It’s not about respect now, it’s only about truth.

“It’s comforting to think that the old man was a sage, a wizard, a relic with a link to the long forgotten past mysteries. And he probably was, but I agree that not very much of it got through to us. It’s a lossy transmission. Some of what we see in Papa, in the heritage, is just our own projection. But that doesn’t mean that we’re left with less than the whole truth, because each of us has to discover it anew, for ourselves. Nobody can be Awake for you.” He’s gathering force now, I see a nimbus around him, the soft shimmering in the air as he concentrates his will. He’s breaking through to something.

“If you judge a free man by the standards of slaves, he’ll appear rootless and incompetent. He won’t collect a salary (“salt paid to Roman soldiers!”), he won’t be part of a large organization, he won’t have corporate or political servants at his beck-and-call, because to enslave others makes us slaves of other masters, each in turn, in cycles of bondage.”

“I have nothing because I broke those ties. That’s what you see. You see the gaps in my life left by my freedom.”

He pauses. He’s braced for retaliation, but none comes. I’m reframing in realtime, recutting the story in my head. I see the implications for my own life, and the structures around me are revealed. Dad, every day, monitoring the State of the chains in Africa, monitoring the ties that bind every State employee, and every person they’re helping, to the big grinding wheel of our culture.

“I know too much to raise the whip hand, so I make do and mend. Until every one of us is free, there’ll be those than grind, those that are ground, and those that lay in the cracks between the slabs, waiting for their time to sprout up, and one day break through the roof with their branches.”

He has a beggar’s pride, and I hate him in that moment because I know that I’m going to have to choose between a position on the wheel, like my father, or a life on the run from nothing more than my own desire for wealth, peace and security.

A life in the crack between the slabs.

Mom’s heard the truth from Peter, and it’s settled.

“I know you can’t take the girls on the road to teach them, Peter, but do something. At least get them the basics, when they’re of age. May you find a woman who’ll be happy with you, too. Because I know we can’t all be like you, not with the world in this state, but you’re right—I did judge you because of the state of your life, and I was wrong.”

Dad, ever reliable, catches it before the entire thing collapses, and guides us back down to the ground.

“Look, I know how bad this all is, we’re jammed tight between our ethics and the world. Harry’s going to have to compromise what he wants or what he is, or possibly both if he screws his life up. Each generation is on their own in making their compromises. But we are a family, and we owe it to ourselves and our kids to survive, and to the world to try and make it into something better.”

There’s a truce. All interests have been heard among their generation, and I’m free to make up my own mind. The charge in the air is rapidly dissipating, but I want to get the last word in.

“If it’s all up to me, we’re completely fucked.”

Nobody laughs. It’s not comfortable. Nobody even speaks. I’ve put my foot in it.

I opt to run.

“I’ll be upstairs” I say, and retreat to my room. I don’t call Emma, I need time to think. Downstairs, I hear father fetch two bottles of wine and glasses.

I can’t tell if Peter really has the goods or not, or what the goods even look like, but what other hope do I have?

The machine grinds on.

---

By spring, I'm sim-combat proficient, in both simplified, simulated robotic combat, and the brutally realistic simulated real combat environment. I've watched fake blood spray out of my fake chest in the simulator dozens of times, I'm inured to my own imagined death. It's disgusting. Hand-to-hand I've learned their basic approach, their stances and postures and drills. I keep what Peter taught me out of my movements.

The class has come together as a cohesive unit. We're no longer kids, we're junior imperialists, a club of little explorers fighting the good fight for continued American dominance of the world. We're in a position of privilege, and we're using it to sort everyone else out. It's our time, our right. It's something we're being shown is necessary, is a duty we must all carry.

And it's not done with lies, it's done with statistics. "If we don't, who will?" but there's charts, graphs, economic geography. They make the case for war to each one of us, in our heads and in our hearts. They want volunteers, and they want believers, and they know lies are refuted with truth, and there's plenty of truth, straight from the sensors, free for the taking. They can't lie, but they persuade. They can't fake the facts, but over and over again I struggle to untwist their conclusions.

I independently check the facts, where possible. I've never caught them lying. But I argue the case with Dad, and he takes me through the counter-argument, but I'm unconvinced. "Just leave them to sort it out in Africa and Asia? Are you kidding?" and, well, he sees that world every day, working out of his office at home, and he's not sure either. He and I both know that

what is happening wrong, but what's the alternative?

What they're teaching me is "Just War."

Just. War.

I've read about patriotism. It sounds like a disease, but what I'm confronted with is worse: it's the laid-bare workings of the world, with the sensors everywhere, and the effectors—that's us—hands, fists, feet and robots—trying to turn the soil of history with the sword, for a harvest of peace and plenty.

This can't be right.

They wiped out Papa's people with a minor variation of this argument made using nearly the nearly 300 year old language of "Manifest Destiny."

I worry that I am not indoctrinated. I worry that I might be convinced.

---

It's July 4th weekend, and Emma and I are in Washington DC. A few of our friends in this Cadet year know we're a couple now, at least in as much as neither of us is sleeping with anybody else. We spend time with other people, socialize, but somehow we've decided that, for now, we'll only have sex with each-other. That would be common enough if either of us was religious, but it's seen as a little strange, almost quaint.

I think some of it's that, in a sense, I am religious: just not their religion. I've seen what's inside of her, inside of me, and all I see of the others is surfaces. And life is complicated, and short, and Emma won't stop crying.

Happens every time we meet, since Christmas. That hasn't been often, it's only the fourth

weekend we've been able to get away, but we talk all the time, sometimes twice a day. I've spent more time talking to her one on one than anybody except Peter, to be honest. She's everywhere in my life and thoughts, except in the hidden world, which is... not for her. Not yet, not now.

We're in a hotel room. Neither of us have any money, but both of our parents accept that we're a long way apart and so when there's any reasonable pretext, we travel. This pattern has meant that my parents haven't met her, and that suits me just fine. I'm too close to them as it is. When I move into the barracks, I'll get some space from them, even if it's the end of privacy for me. I'm not sure how... if we'll keep this up then.

She's in the bathroom, door locked, sitting on the floor, back to the door, sobbing, and I don't know what to do. It started after dinner. We talked about everything, about the cadets, about the world, about what Peter said at New Year, about the whole of life, really. The same as we always do.

She seemed so happy, then we came back here, and I said

"You look so beautiful right now!" and she said "I don't want to just be beautiful."

I asked what she meant. She said "I can't stand all of these games, Harry. I can't stand the manipulation." I tried to hug her, and she pushed me away and locked herself in the bathroom.

I'm sitting on the bed, watching the door, listening to her weep. Why? I think about her face, about the shape it makes scrunched up in tears. Anger? The set of her jaw?

As far as I know, her parents are fine. No deaths in the family, no brother who didn't return from the war, he's never been out of the country. He's not even in line for combat: avionics specialist on remote sensor software, it's about the safest job in the corps.

"Honey, let me in, please."

"Tell me what's wrong."

I don't know what to do. I don't know what I'm looking at. Outside, in half an hour, the fireworks display and celebration that officially brought us here will start, and I wonder if I'm going to stay here in a basic hotel listening to my girlfriend crying, or if I'm going to go alone.

I think about Peter. I think about Dad. I think about my sisters. It's a bit like a tantrum, but she's not a child. It's a bit like Mom, stressed, picking fights, but... what's the problem?

I realize that, for all I know, I don't understand somebody that's become important to me. I can't tell what's wrong, and I don't know what to say to fix this.

Fifteen minutes, then I'm leaving, I decide. I don't understand.

Taps are running, she's washing her face, she comes out.

"I'm sorry, hun, that happens sometimes." She gives me a quick pat, then changes and puts on her makeup. Sometimes is every time. What's changed?

But to her it's all forgotten. But not to me. We go downstairs, and walk the ten minutes to the mall. The crowds are huge, and the weather is amazing. Skies are clear, weather control ensures that every year. It's not July 4th if you can't see the night sky.

DC is a throng. The Jefferson Memorial is incandescent, lit from every side, huge beacons of light flood upwards from it, up the Mall.

Towering above it all...

"I HAVE SWORN, AT THE ALTAR OF GOD, AN OATH OF ETERNAL HOSTILITY TO EVERY FORM OF TYRRANY OVER THE MIND OF MAN" []

thunders the virtual Jefferson, eighty feet high, standing behind his own monument. It is as if the statue has come to life to address us. He is colored as stone, not as flesh-and-blood. The avatar, the icon of the new regime.

Virtual Jefferson salutes, and begins to fade into nothingness. At a wave of his hand, sheets of flame tower into the sky, to be replaced with red, white, blue and golden fireworks that shatter the air with light, duck and dive like swallows, and explode like bombs. He's replaced by delight, incredible dancing beauty. They keep it short, twenty five minutes of ecstasy, then the sky darkens. Lights dim all over the city, and we can see the stars as clearly as that night in the Pine Barrens.

The crowd sings, as one, the Star Spangled Banner, and we look up, to our destiny.

She's beside me, and is well. But I am beset by doubts. Is this how it's supposed to be? Is something wrong?

Manipulation?

I'm not sure I'd know how. I'm afraid that if I did, I'd try.

---

Peter stands on top of a 14er, a 14000 foot high mountain, in Colorado, on the front range. He looks down over the Roaring Fork Valley, his

home for many years, and blesses every single drop of water in the rivers, and every atom of air in the skies, for bringing life to such a wonder. The red rocks of the hills are blazing in the sunset, and Peter and his companions—four humans, two dogs—stand in a circle, gazing out at the wonder. It is beyond belief.

Peter turns to the others, all younger than he, and says "I'd like to thank you all for coming with me up here on my birthday. It's been a hard hike for an old man, but I wanted to see the skies from here again one more time. I don't know if I'll be able to do this in 5 years, never mind 10, but today..." his words tail off, and he cries for a moment. No-one moves to comfort him, they wait respectfully.

He does not struggle to continue. He too waits. Finally he breathes calmly again, and speaks "Today I am thankful to be alive. I never thought I'd last this long!"

They don't know what he means. In his heart, Peter knows it's been a struggle, a lifetime of trying to wring the truth from the world, and an almost-always uncaring sky, for those brief blasts of light that illuminate like the start of the universe.

He knows the atoms of his body are made from particles that started at the big bang, that the carbon and iron have gone through supernovae, several times for the iron, running up the ladder to live. And when he's dead, those self-same atoms will travel to other stars on our ships, or on the tide of the solar wind, blown from the upper atmosphere or cast out wholesale by some luckless impactor like a comet, in some day when Sapiens no longer warily watches the skies.

It is all blessed, and it is all holy, and my knees hurt, he thinks as they descend to a safe altitude to spend the night of his birthday stargazing.

---

Ten days before I move into the barracks, and become a Senior Cadet at Induction, Peter reappears. He's been making himself scarce most of the last year, trying to get his life together. The fight with my mother has shaken all of us, but it's become something of an inspiration for Peter, that and turning 60. He's changing. Easier to deal with, for one thing. Somehow she lifted a weight off him, gave him permission to be more human. To fuck up, to fail perhaps. It's cracked his mask in front of me.

We didn't spend the summer together. Peter wanted to give me some time with Emma, and she and I gave the summer a shot, moved into NYC in a room we'd borrowed from a friend, decided we'd see the city. It was a disaster for the first three weeks, then I lost my temper, screamed in anger, and left. Two days later and we talked, and it was better. It's been great since then. I don't understand what was going on, the anger/tears, the futile wishing for the stars, I could never make the sense of it. It wasn't what I wanted, but it wasn't easy to see how to change things. She seems settled, though, it's going to be fine.

So this is the first of Peter in a while. He looks... old, but radiant. We hug.

"So... 60! I haven't seen you since your birthday! Happy birthday!" I had called him, but it's not the same... he knows what I mean.

"Ah, my boy, my boy... I have something for you." This time he brought the van, he goes

back outside and comes back with a box. Opens it up in front of me, and inside there's a black, featureless safe. He thrusts his hand through the soft, organic black surface, and comes out with a stack of papers and some keys and some other odds-and-ends, which he dumps back in the box.

"For you. A regulation personal safe, which will (if so programmed) eat the contents rather than allow disclosure. It's vulnerable to a warrant (isn't everything?) but... for your things."

Barracks. A modicum of privacy.

"It was in the van, all I ever kept in it was scraps and secrets." He gestures to the pile. "Nothing that matters very much these days, I've had this thing for nearly 15 years, since you were a baby.

I can't tell if it's a gift laden with symbolic significance, or a practical, material gift, given that we never write anything down. "I'll sort it out to your bio-prints later" he says, and I put the safe in my room and we sit in the lounge. Mom and Dad are with the girls at a recital.

"I want to talk to you about your induction" he says. "I've been talking to some people. About what they're doing these days, the process. It's bad." I inquire.

"Some kind of heavy drugs, they've been using them the past few years, and a message that's been tweaked by observing the reaction of about half a million young people a year, and adjusting it a word, a gesture at a time, testing thousands of micro-variations from the old programme. It's nothing like the old induction, which was bad and bad enough. This new one, it's absolute poison, and it's going to get inside of your skull and hollow you out, if we're not careful. It's fascism, pure and simple, and it's

crawling all over our society, hidden by a veil of truth."

I know exactly what he means, but he's never used the term Fascism until now. It's always been The Machine, or Control. I'd made the translation at times, but I wonder why the change. I quiz him further.

"Because what they've done is pervert our basic desire for solidarity with our families, our communities and our neighbors and turn it into an instrument of the State. It's not as simple as the mercantile empire, or the ecological authoritarianism models, it's an attempt to engineer the souls, by deceiving the primal parts of us that this social order is our mother and our father, our brother and our sister, our tribe, village and peers. And it's not, it's a bloody layer on top of our society, of force, violence and bloodshed, imposed on us from on top."

He's afraid of losing me. He's afraid it will work. The escalation in the rhetoric is his way of...

"You're afraid it'll work, Uncle Peter, after everything I've intuited and seen?"

"No, I am not afraid that you'll stay brain-washed, Harry. I'm just afraid that you'll waste so much time digging the filth out of your head, you'll wonder where it all went wrong."

I try to reassure him.

"That's a rational fear, I guess. Is there anything I can do to prepare?"

"I have an idea," says Uncle Peter. "I think we could make you a secret compartment in your head, and try and trap the conditioning in there. You might lose a part of you for a while, but the rest of you might remain unstained.

"Like a switcher?" I say.

“No, switchers are pretending. What I’m suggesting you do is that you let part of yourself believe it, hook, line and sinker, while the rest of you tears it apart afterwards.”

I don’t know how to do this, and I certainly don’t know if I like the sound of it, but what else have I got? Once again, the nagging doubt that he’s a crazy old fool who doesn’t know what he’s doing, offset against his exquisite understanding of body, mind and nature.

“Sure,” I say, “sure. Do we have enough time?”

It’ll only take a few days. That’s fine, Induction’s in... a few more days than that. We better get started.

I realize now what the safe is for. It’s symbolic, all right. Symbolic, and practical.

---

The next morning, we begin. We move the small furniture out of the guest bedroom and flip the bed up against the wall, then Peter inscribes the now-familiar circle. Standing in the center of the room, he brings his hands together, bows his head, and invokes. Then, striding purposefully three paces to where the circle will be, forcefully draws a pentagram with his right hand, using a pencil as a wand. “If you focus really, really hard, you’ll scorch your fingers” I’ve found that to be true, but it took me years to be collected enough to manage it.

At each quarter he starts the pentagram in a different place, the first symbolizing earth, then water, air, and finally fire. He returns to the center.

“Every man, and every woman is a Star! And I am a Star, in the Company of Stars!” he gives me a wink, and I enter the circle. The changes

are slow at first, a few minutes of heightened awareness, then a razor sharp mystic clarity. I’m never quite sure if it’s the ritual giving the mind a clear signal it can drop ordinary concerns and think about higher matters, or if it’s actually some kind of change in space triggered by... pataphysics? but the bottom line is that it works. I can think clearly in here, in a way I can’t outside, and clear thoughts means clearer actions means better decisions makes a better world... at least that’s the theory.

Evolve.

A light schedule today. Three hours of meditation. Dad’s working upstairs as usual, and the girls are spending the last of the holiday on day trips and the last of the summer sun. Peter no longer sits in full lotus, legs crossed, ankles on knees, feet upturned, as he did when we first started to sit, when I was nine or ten. His legs are crossed, but he’s seated on a small pillow. “No point in pushing it, lad. It’s not a race.” I can’t manage full lotus, even though I’m a third of his age, because I’ve never done yoga. But I can sit cross-legged comfortably, and I don’t use a cushion. I bend forwards, and scoot my butt back as far as it will go, relative to my knees. That makes a good, solid contact between bones and the floor, and stops my legs going dead. Peter approves: he taught me that when I was still a child. He never needed to show me again.

Next comes the alternate nostril breathing. 45 minutes. Close right nostril with thumb, inhale left. Close both nostrils. Open right nostril with thumb. Exhale left. Repeat on the right side. Repeat for most of an hour, balancing energies I’m not even sure I feel. Shut up and focus. One way or the other, it’s something to do while the mind unwinds into quieter states of being. That,

too, goes far faster in the circle. Outside of it, it could take me a day to reach the kind of stillness which allows for the real work to begin.

At hour two, we take a break. I go for a short walk outside in the garden, check in on Dad. Peter stays in the circle while I’m out, and vice-versa. We don’t usually leave a circle unmanned, it’s not an ironclad rule, but it’s a seriously observed tradition. I want to ask him “traditional to who?” but I’ve learned that usually the answer is synergetic—bits of this, bits of that, common threads, personal experiences, or some teacher he stayed with for months or a year or two said.

It’s not satisfactory, but at least it’s honest. He’s assembled a working truth from pieces, and it’s brought us here.

He returns from the bathroom, and we sit. Finally, at the end of an hour of doing as close to nothing as I can manage, simply letting every thought that arises go again, without greeting each idea with a responding new idea if I can help it, without a voice of acknowledgement for what inner monologue I have, without trying (the hardest part, to be without trying to be) - when all that wrestling is done, and my mind is fairly quiet, finally he lights the joss stick. The smell of sandalwood fills the air, and cedar follows it as he lights a red cedar splint.

This part is hard, moving from the still, inactive meditation phase, to the active magical mode. In meditation, everything is just as it is. Everything is fine. But when you want to change something, you want to bestir the stillness into motion, and the first question is the hardest: why? If everything is perfect, just as it is (soto zen, he tells me) why change something, particularly by extraordinary means? “To survive? To

evolve? To... because we can, and we don't have to take this shit?"

Good answers. "Because I want to be free" is a reason to act.

Peter exposes the first hypothesis: "because they will physically coerce you into doing this or being punished, you have the right to maintain your equilibrium through it. You're not pushing anybody, you're just refusing to be pushed." Magical non-aggression. What constitutes an act of war to Peter is a very subtle, high-order philosophical concept. He believes that if you don't put pressure on anybody, then nobody can put real pressure on you—you just "shoot out from between finger and thumb like a melon seed." Easy for him to say, he's an old, childless (?) man who lives in a van.

We agree that it's true. The proof that magic is necessary is like math, or perhaps some archaic legalism. He always wants to prove that there's no other way. It can mean a lot of searching, a lot of arguing out dead ends, but it sometimes shows dumb, stupid ways to solve problems that are a lot less risky than bell, book and candle operations. I will him to hurry up. He won't. Half an hour later we've ground out the cases: we're going to defend my mind by magic, whatever that is.

If he knows, he won't explain it to me.

I have procedural knowledge, but not insight. Not yet. Not at the most basic level.

Oops. Mind drifting. Here we go!

He draws a box on a piece of physical paper. He folds the paper into a box with some tricky origami, then unfolds it again.

"Flat... Picture of box... Box. Now there's an inside and an outside."

He does it again, backwards and forwards two or three times, laden with meaning. Flat... image of a container. Container, but now space is divided in two, an inside, and

Click.

Goddamn. I feel it enter my mind, and now on the inside of my head there's a sheet of paper, which represents my mind, and I fold it up and now there's two minds, one inside the sheet, and one outside. But the box has a picture of the box inside it, on the inside of the paper, and that's the trap, that's the self-referential twist that means that what's in the box can't get out.

How the fuck?

The piece of paper is gone from the room. I want to believe he just stuffed it up his sleeve when I wasn't looking, eyes closed gazing into my inner world, but I'm not so sure...

Magician. Peter the Wizard.

My uncle.

I spend the next two days occasionally putting things into the box, and then taking them out again, and folding the box into existence and back out again. It's like a reflex, a muscle. I could catch flies in it by the end of the third day. Peter is well pleased, and I have an irrational fear that he's going to be so pleased with himself that he'll decide he's completed his incarnations and drop dead!

At breakfast the next day, whole family together, I try to explain to my father what we did. He doesn't quite follow it, but the theory's plain enough: catch the experience in a bag, and don't let it get up your brain stem. We talk in code, around the girls, arch and sly. They pretend to ignore us, but it's not about them and not immediately interesting, so they're not too obnoxious about it.

When Father finally gets the idea fully, he and Peter exchange a very meaningful glance, and something passes between them that even Mom, distracted, notices.

Under the eye, Peter says, very slowly "Nearly 10 years ago we talked about this day. We talked about how to protect you from the machine, from the indoctrination. The system's gotten much worse since then, but we did well, eh Gregory?" He's being careful not to start trouble with Mom.

The conspiracy of old men. They've spent a decade teaching me how to do origami in my head.

I feel elated, loved, foolish and betrayed all at once. All these years... for this? More than anything, I feel young, and afraid. Induction is on Monday. Emma's induction is on Monday too, but at a different base. Small groups, nothing like the camps of the past year.

I wonder how it will affect her, without this protection. But there's nothing I can do.

She doesn't have to maintain the dual consciousness I do, a spanner in the gears. I think to myself, "she'll be fine." I watch how easily I choose to believe it.

Peter and Father go upstairs, to talk about something. I clear the table while Mom gets the girls ready. I hear Peter's laugh and Dad puts on some music from the old days, something they'll both enjoy. I think they're celebrating...

prematurely.

Monday's the induction. Can we save the party till then?

---

Induction. I'm going through induction.

I'm 17, it's October again, and we're at a military base in New Jersey among regular military. I'm top 12% assessed on annual performance, and Senior Cadet's my new title. They got the formalities of the way first.

I've gotten much more clarity about what Peter's been training me to withstand: why it matters, too.

It works like this. You take the men of society, and the more assertive of the women, and you grade them: soldiers and not-quite-good-enough for soldiers. Always the advantage, for the rest of life, to the soldiers. Then the soldiers, well, proto-possibly soldiers, you condition. Loyalty, oaths and honor. Peter's convinced it's as much magic as drugs-and-hypnotic induction, but we shall see. He's done a ton of reading, talked to people, synthesized stories, but if you're not actually in the room, on the stuff while it happens, what can you know for sure? Guinea pig B. I may be the first trained observer through this particular Dark Satanic Mill. Or at least the first to any insight to... Peter's network.

I had not thought of that before. Peter's network.

Noted.

"A mild stimulant to make sure you remember this day for the rest of your life, sir!" says a doctor handing out the pills. I briefly consider palming it and spitting, but they're checking pupil dilation or something at the door—the very fact the doctor isn't watching to see if I take it means ducking it isn't going to do any good. Casual, careless, dozens-a-day manner

from the doctor. He's casual because he doesn't have to pay attention.

That means a machine is watching.

I prepare to pop the pill. It sits white in my hand for a moment, a tiny oval, featureless and shiny, a sugar coating hard like plastic, then into my mouth with it. I bite before drinking, and the taste is acrid, bitter, and makes my mouth a little numb. Psychedelic for sure.

And it comes on strong, a swelling pride in my heart within fifteen seconds, and an adrenaline rush, exhilaration. I know it won't hit other people this hard, I'm sensitive, a joint will put me on Cloud 9... but... this is so strong!

Induction. Senior Cadets, ready to serve! I look around the room again, looking for signs the new eyes have kicked in. Even if we don't elect to go for the outbound year after this, we'll have spent a year in uniform, a year assisting on shore, a year working beside real troops, a year...

A year in the machine. My thoughts blur. Machine. Machine. Men in the machine. Me.

I look, really focus, on what's around me.

There are about four dozen of us in this group, from surrounding states. Some of them, quite a few, seem to be second generation military. We've had a fair chance to mingle, getting off busses and set up in the dorm. I didn't realize how many of us were soldiers, soldier families, how big a part of our society it is, it's all of us in this room, we're parts of it, it's part of us, it's...

God it's subtle, it's...

A. Drug. But I don't fight it. I am, right now, inside my origami box, looking out at the world from a tiny cube of space, buried inside my mind. I don't know how I know, but I know that

this is all going in there, going away from me, my core identity.

They will not have me. So I relax, I don't have to fight it. I visualize pouring the experience into the box, a liquid. All ok.

I am tripping balls.

We walk through the arched doorways, two-by-two, a short corridor, then out into a large square room with benches on three sides, and a matte black floor. Nobody else seems to be having any trouble, and to be fair, neither am I outwardly. Inwardly, I'm giddy!

There are two US flags crossed on every wall, and a low hum like an engine which turns out to be a rumbling sub-base soundtrack, a modulated march. The overwhelming sense is of unity, of belonging, of strength, as we sit down on the benches, uniforms identical, hair similar, somehow...

Better. The overwhelming sense from the drug is that things are better. It's a sort of feeling of summation, an approaching crescendo. I realize it may be timed, and that I'm going through the experiences faster than normal.

I'm struggling hard to keep an objective frame, to note what's the drug, and what's the setting. It's ploughing through my unconscious mind, Marching Morons! Dragging up some sense of leader/follower, up/down, in/out, divide-territory-conquer. Let it roll, let it roll.

The last of us are seated.

Three men in uniform come in from a side door and sit in the three tall chairs on the opposite wall to me. One of them is the Colonel who oversees this recruiting region, Gibbons. I'm used to his face. He's in the center chair, and he's wearing a dress sword and a sidearm. I watch the drug add nobility to his features, his

face becomes etched with struggle and valor. He's my hero!

The room is lit by lamps in the walls, pointed upwards, creating an effect almost like columns. Right now it's lit brightly enough to be almost daylight, but as we settle in, the lights dim and become slightly greenish, and the quiet deep bass marching theme fades out to be replaced with a more elegant, clearly audible soundtrack, the simple chords of a hymn, but no words. By now the room is almost dark, just enough light to see the bulk of people, their forms. Thirty seconds go past, perhaps a minute.

A spotlight, as bright as day, lights up Gibbons, now standing at the far end of the room. He says "Welcome!" and his voice is amplified as the voice of god, coming from all sides simultaneously, enhanced with more of the same deep bass. The woman seated to my left jumps slightly in shock, gasps, then steadies herself. I can't see Gibbons face clearly for in the glare, my eyes are still adjusting to the sheer intensity of the spot beam.

As he comes into focus, it all becomes clear.

I'm staring myself right in the face. My god, this explains everything. I'm seeing Gibbons as myself, forty years older. He's become my ideal self, the perfect form of my older self, the perfect older me. He's the idealized super-parent, the mentor, the hero, the inspiration. My brain is trying to slot him in somewhere beside Dad, Peter and Papa. For some reason my own father doesn't inspire this, it's different. Gibbons isn't quite showing up as my father, it's something more... a... King?

Father of us all! El Papa, the Pope, something... numinous. Phrases from the work, like Heiro-

phant of Wisdom or The Emperor come to mind, but I can't place it. He's the Perfect One.

He floats there, in the center of the room, not moving. I note, on some rational plane, he's clearly aware of the performance he's giving, waiting for the imprinting to take. They're using a sledgehammer to crack my nut.

I'm hanging on, waiting for him to speak, desperate to hear his wisdom.

He speaks again, again in the voice of god.

"As Senior Cadets, you brave men and women will begin to taste the satisfaction which is service to your country, to your fellow human beings, and to the world itself. You will come to understand how a disciplined, organized citizenry can provide the strong backbone which civilization itself demands. You will find a true meaning and higher purpose to your activities and affairs which transcends the personal."

"This struggle has always been an armed struggle, as the people of the civilized lands strove to maintain their way of life against the barbarism and chaos which was previously the human norm. You were party to this war before you were born, and this country has fought for over 250 years to keep the flame aloft. We pass that torch to you today, and you will carry it for the rest of your lives."

I feel something descend on me from above, a sheet of energy, a weight, pressing me into the ground. But also, right in some feral center, I feel holy and justified in doing whatever I please.

Two more spotlights. The two men who were seated beside Gibbons are standing beside him. One has rolled up his sleeve, revealing a bright, pink, soft-looking new hand which starts mid-forearm. The other has a visible scar starting on

his brow and heading back across his skull, which clearly looks like it could have been fatal. He's also been regenerated, some of the tissue on his head is also that same bright saline-tank pink.

"Your willingness to lay down your lives for each other is what makes you Senior Cadets."

The two injured men place one hand symbolically on Gibbons' broad shoulders.

"Your willingness to lay down your lives for this Nation is what makes you, in your hearts, Citizens. The path is filled with danger, but together we will walk it, into a New Age of Mankind, as the founders of this Sacred Nation have foreseen. It is our shared destiny, and each of you is an integral part of that shared destiny. We are one, indivisible, united!"

We are all on our feet, in a single movement we all stand, on some invisible signal. The unified, coordinated movement is ecstatic. I can hardly bear it. They cannot be hitting the other cadets this hard, they'd be freaking out right on the floor. But as I turn my head to look along the row, I see a ferocious intensity in almost every face, clearly I'm not the only one shaken to the core. This is working. It's working for all of them, not just for me.

At the front, a few at a time, cadets are conducted to the center of the room to stand beside Gibbons and the wounded soldiers. Gibbons places his hand on their shoulders of the closest cadets, and they reach out to each other, each standing shoulder to shoulder with another, or reaching forwards on to the shoulders of another, heads bowed, a single connected network. The rest of us rise, a few at a time, solemnly taking our places on the floor. The spotlights widen until all of us are illuminated, blinking in the

glare. Everybody touches somebody, a gesture of support, of solidity, of care.

This is America.

The music comes in again, progression of tones sung by a choir, rapidly layering on top of each-other until we're listening to a hundred voices, then a thousand, then a single all-sounds-at-once pure tone, a transcendent reaching. It goes on what seems like an age, but is only eleven of my breaths. Then darkness and silence fall in only an instant.

We breathe together. We breathe together. We are one body, one people, one polity, one race, marching forwards through time. We are eternal, indomitable, victorious. Some will fall, but the rest will take the day. The room vibrates with energy, or perhaps with more sub-bass, and I know that they are right.

Dim lights come up, and the Senior Cadets peel away from the group one at a time and step outside through the arches. Each is met by a uniformed regular soldier, and they leave together to walk in silence for a time on the running track of the base, pairs spaced out, never meeting.

I walk beside a man perhaps five years older than me. He's about my height, and I feel as if I've known him my entire life. His face is familiar to me as my sisters'. The silence is not between strangers, but between people who know each-other so well there is nothing left to say. We simply keep pace. It's a perfect ritual.

Together, alone, we walk around the track for half an hour, keeping our spacing from the others. Nowhere to go but your thoughts. I expect most of the others are reassessing their lives. I'm reassessing my society.

I'm thinking "No wonder we're fighting a war without end. After this, what else will seem real?"

I'm waiting for the drugs to wear off, so I can think.

## book two

[4:33 AM, Sunday 22nd April, 2029. The White House.]

I am the President of the United States of America. I am about to make the most important speech of my lifetime, and possibly the most important speech given in this nation's established history. The worst thing in the world is happening, right now, and it is my job to set the frame of history around it.

I am not an Abraham Lincoln, not even close. I'm barely even a politician.

A great statesman could face a day like today and try to make history. All I can do is look at the waste of human lives, of human potential, and try not to make it any worse.

I am not sure I can manage that. At moments like this, power fails. Good intentions fail. "The center cannot hold" as the poet said, and I am at that center. I'm the goddamned President and... god damned might be the appropriate term, actually.

The President blinks and chooses to process the theological question another day, or perhaps in another lifetime.

He rests his head on his hands, elbows propped up on the magnificent desk, thinking.

I am not a statesman. What I am, really, is an advertising executive who bought this job with my grandfather's money. I know people, I know how they think, and I know how they see. I know how to message. I grew up in a world created by carefully sculpted messages. But there's no spin to put on this catastrophe...

I told people what they needed to be told to put me here because it was something to do with my life, something money could not buy, something to work for, something to prove to myself and the world that I'm not the spoiled

little rich kid that I often think I am: I sold myself to the public like a product.

To prove my worth, to prove I'm not a worthless bum, I put a price on myself, and I sold, and sold, and sold. And now I'm President Worthless Bum. I have nothing inside of me to cope with a crisis like this. I'm a hollow man.

I'm a hollow man.

Resolved, the President washes the last of his self-loathing out of his mind. Get it over and done with! He knows it is not going to matter how he got here, or who he was before this happened, because history has crashed into his life like a wave, or perhaps more like a speeding car, and it literally does not matter a single drop of blood what he thinks of himself now. Now history has spoken, and he will rise to the occasion, or be damned forever. There is no past, there is only the future. There is only the situation, and his response.

If he wanted to prove himself worthy, he has his chance.

He thinks, for a moment, about past Presidents who faced impossible crises. Lincoln, most of all, pulling the trigger on a bloodbath to make a better nation, or perhaps just to make a nation at all. He thinks about Kennedy, who's dove-brinksmanship in the Cuban Missile Crisis, standing down his own generals who wanted a nuclear war, cost him his life. Most of all, he thinks about Bush, who's national security apparatus he sits on top of, nearly thirty years after 9/11.

It is 4:30AM. In sixty minutes he's going into the studio to record the speech, which is officially being given at 6:30AM. He has about forty minutes to discover how to say something, any-

thing, to eke out some gain from what can only become known as the Second Holocaust.

We have 20 million dead and rising, in a week-end, five rising to six million of those in America. The... he can't bring himself to say the word genocide... event is on our soil.

History has come. With teeth.

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He begins the speech. First, our collective guilt. We let the Jews down again. It's the wrong start, but it's all I've got. His voice breaks. He really feels it. There's no mask big enough not to crack, not even his.

"My fellow Americans, and people of the world, I bow my head in shame."

Little does President Knight know how precient these words will become.

"An unknown agency has mounted a biological weapons attack upon a specific group, a group who's history has long been one of persecution. In the 1940s, Hitler's Nazi regime killed almost half the Jewish population, in an attempt to extinguish this brave people from the face of the earth. Today, and over the last 36 hours, more Jews—and people with genetic makeup similar to many common Jewish genotypes—have died than in the entire Holocaust."

Crushed. An unthinkable technological Holocaust. A Second Holocaust. He knows that's how it will be termed, it's obviously how people will name it, but he's the President. He can't name this event. Not his job. That's for the press.

"We do not know how far the plague will spread, or whether there will be further attacks on other genetic groups or even on the whole of humanity itself. As you can imagine, every re-

source we have, nationally and globally, in cooperation with our partners across the world, is being mobilized to ensure the safety of everybody, everywhere in the world."

Reassure the people: we are on this. We are the Government, we're big, we're scary, we've got this covered. But the truth is we're just like you, lost in the storm. The only difference is that we're much more afraid because we have much more data. Or, in this case, we know that we know nothing at all, which in our case is even worse.

"My heart goes out to every one of us."

The truth. This is hideous. He can't get "God Bless America" out of his mouth. Not tonight. God, if there is one, is on vacation, and he left Satan minding the store.

The official part is done, but if I leave it there, I'm a machine. And I am going to make a difference here.

The President breathes. He shifts his body, turning to one side, making it clear through his body language that this is off the record, that he's speaking personally. A gesture.

"I cannot tell you what I feel today, what is going on inside of me. I expected, as President of the United States of America, to work towards our future prosperity, security and integrity as a nation. I did not expect war, particularly war of this particularly horrific and new kind, and I did not expect to have a historic responsibility of this kind thrust upon me. If you had told me that within my term, we would see genocide on American soil, I would have said "that's impossible." But I can tell you this: together, as a nation and as a world, we will absolutely ensure: NEVER AGAIN. You have my word on it, as a

man, as an American, and as your President. We will not fail."

I nailed it. I didn't fold, I didn't fail, I found something inside of me to answer a problem this large. Now we see if I can follow through. But what I wonder is: in 48 hours, in two weeks... will there be anybody left to save, or to do the saving? How far is this thing going to run?

The tech say it would have been a lot easier to just kill all the white people, or the blacks. The Chinese and the Japanese are particularly vulnerable.

Whoever did this hated with a precision which, the President prays, protect everybody else. But god help us, we share a world with evil... Anything could happen.

But that is not something a President can say on national television. With power comes the role. You must be Mr. President, and that's the final word.

Mr. President wants a drink. But Mr. President has been sober for 15 years, and he is not going to let this break him.

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Israel's a charnel ground, New York, the Ukraine, even parts of Africa.

They say whoever did it could have killed the human race as a whole to within one tenth of one percent of its current numbers. The viruses themselves are that deadly, and more DNA narrows down the area of effect. One surprise: a vaccine is surprisingly possible. Very quickly we can be sure, forever, there won't be another one of these, at least not an adaptation of this one.

A silver lining?

Almost all of the Jews are dead. That the rest of us might not join them is, yes, a silver lining.

Whoever did this, and there are only a handful of suspects—all of whom have flags, languages and armies—was incredibly thorough. Everywhere a substantial number of people converted to Judaism and kept their genes to themselves, the original ethnic group gets nuked just to get the convert population.

Entire genetic subtypes wiped out because a couple of hundred thousand people converted to Judaism centuries ago. The devastation of Europe caused to erase the Ashkenazi. The death toll rises, and rises, and rises. It's like watching the entire genetic history of a people get mapped, and then erased, branch by branch, block by block.

Geno-cide.

Bio-war of this type has been theoretically possible since the mid-1970s but, practically speaking, the sheer quantity of science, of time and effort required to do it is unthinkable. It's a space race's worth of effort, because "The Jews" turn out to be a very genetically diverse group of human beings indeed, when you get right down to the genome, which is exactly what some bastard did. Or, rather, some set of exquisitely well-funded, extremely bright bastards, working together for 10 or 20 years.

It's a government. It has to be. Nothing that big could remain hidden.

The President's Eyes Only reports make it very, very clear: somebody has spent decades collecting DNA samples, and used an enormous amount of computer time running analysis. They've used impossibly secret bio-war techniques, to construct not one but a family of killer viruses which have been disseminated all

over the world without a trace, and released in a coordinated fashion. This is a task conducted with massive resources over decades, there are only half a dozen bio-war establishments in the world with the capability to do this, and there has been no evidence of any such effort picked up by any of the intelligence agencies. A minimum of ten thousand genetic samples, but more credibly, a hundred thousand, processed in a supercomputer for years, and then perhaps a decade of virus design. It beggars belief, but the evidence is being buried every day, as the bug gets around to isolated pockets of survivors.

To the President's advisors, it is, frankly, as puzzling as the detonation of the first nuclear weapon on Japanese soil was to the Japanese.

The Holocaust Plague was released on the 20th of April 2029.

Hitler's Birthday.

At one meeting, somebody suggests Moon Nazis. The name sticks, a reference to some old movie. We're hunting for Moon Nazis. There has never been blacker humor. The President permits the name, it helps people cope.

The search continues. The trail, eventually, leads where it must.

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President Knight goes down in history for one act only: he tells the truth. Here's how it really happened, the secret, insider's story. I swear this is true.

President Knight is visibly drunk. He is sitting in an armored limousine with the British and French Ambassadors. He's spent six weeks engineering a contingency which makes them sharing this car ride necessary. In addition, he has used every ounce of his Presidential authority to persuade the British Ambassador to give him access to a secure communications terminal. The British Ambassador, a retired naval doctor called Brian, is an old friend. His curiosity and fear burn. But if the President of the United States of America has to make a private phone call, private even from his own people. well... These are complicated times. Something important, and... The Crown will, of course, automatically know what is said using the device... So Brian brought the box, and handed it to the President with the grave care and attention one would normally reserve for a hand grenade missing its pin.

President Knight weight the odds. To kill a President and one Ambassador would be unfortunate. To kill two... might also be unfortunate. It's as much armor as he can find. The French chap is just here as insurance—two Ambassadors from nuclear states for the price of one. A lucky break.

President Knight does not know how much slack a President has before the hammer falls, as it did on Kennedy. Go against the system too far, and the system reacts. It has only one modality: murder.

President Knight is going to make history, one way or the other.

“Driver, please give us full privacy in the back, please.”

Microphones from the crew compartment are cut. All the glass in the back becomes completely opaque, and a forest of electronic countermeasures are deployed to prevent listening devices and other forms of spying.

President Knight opens the terminal. It's about half the size of a brief case, and to withstand almost any contingency, remaining functional after being thrown from a plane, or after a (small) nuclear bomb blast. It can place a call to most common communication systems, civilian and military, and is almost impossible to jam thanks to an extensive network of communication satellites and terrestrial relays. Half of the functions on the box are irrelevant to this call, more than half of them. It's about 5 years behind our model, he notes.

It's what you give Ambassadors to phone home if the shit hits the fan, and fortunately, it permits calls to places other than home too. It is plausible that the call will be decrypted later, but the President has every reason to believe that it is secure enough for a short call. And that's all he's going to need. Less than two minutes, he's practiced it, saying the words slowly in his head with a timer. He has never spoken them aloud.

The short call is to another old friend: a Chinese dissident commonly called Guanyin Ziru, a nom de guerre from her years in the underground. She's a dry, severe, professorial woman in her late 40s, a veteran of China's most difficult days. She has seen much loss, and now runs a leading Chinese language news service. The President hopes that she is a secure enough channel for the news. The Chinese national de-

fenses, her own dissident network which has survived much pressure over the years... she only needs to repeat the message a few times and it's out all over the networks in moments. It's just the first hop, the first node, that's the hard part.

He knows he's stalling. Enough stalling. He checks for signal (clear) and dials the number in China.

Guanyin Ziru is waiting by the remote, as agreed. She picks up the call. It's as secure as an old dissident can make it. He does not make social calls to her, therefore it is something critical. It must be... earth shattering. A leak from a President can only be about one thing. She has inferred a range of possibilities, many of which will result in her not living out the year if she does her job. It is, potentially, fatal duty.

Now, or never. With a deep breath, President Knight pulls the gun from his pocket, and levels it at the French Ambassador, then flicks it to Brian and back.

“If either one of you attempts to interrupt this call, I am going to shoot both of you. Brian, I'm going to talk to Guanyin Ziru and tell her who was behind the Second Holocaust.”

Brian's eyes widen. The French Ambassador—portly and unpopular, a martinet, sits frozen, clearly thinking he is dreaming, or perhaps involved in some terrible practical joke. This is clearly impossible. It cannot be real. He can, therefore, ignore it. The French Ambassador is clearly, therefore, not going to be any trouble.

So the gun remains pointed at Brian. President Knight is about to break all the rules.

“Ziru! Good... yes... thank you. Yes...”

To cut the pleasantries short, President Knight brings the gun into the field of view of the ter-

minal. She falls silent. Whatever is happening is serious beyond all comprehension. Who the hell is he with?

“Ziru, I want you to know that a US Army bio-scientist called Thomas Ford Junior IV is responsible for the Second Holocaust. We've known for about six months.”

Ziru bursts into silent tears.

“He worked with a small network to obtain sophisticated genotype computer models from the Israeli's own genetically-specific bio-weapons research programme. They had accidentally laid the groundwork for the Second Holocaust.”

Ziru puts the pieces together immediately. Who else would have the incentive to study the Jewish genome in such detail. She prays the call won't be cut before he finishes, although she has enough to finish the job from here.

“Ford Junior then used their defensive research to construct a template which was used to steer a private research agenda conducted within our own classified biological research facilities. He used our labs to flip the models around and weaponize them.”

President Knight is glossing over the complicated details, the apocalyptic theology of Ford's network, their ties to industry, to politics. In the ultra-secret highly classified world he inhabited, Ford Junior was everybody's best friend, everywhere, for about 20 years. He was quietly regarded, frankly, as a saint, certainly far above suspicion. A catastrophe. President Knight is afraid not just for his own life, but for the world. Ford Junior got this far on a series of exceptions, blind eyes and oversights which implicates the entire maximum security political hierarchy. No fix there.

“Ford Junior distributed the live viral material across the world using a network of religiously-motivated sleeper agents, who believed that they were ingesting holy water from a bleeding statue in Ford’s basement.”

Brian very nearly loses his mind at this. He’s in no danger of going for the gun, but the desire to start screaming with hysterical laughter is almost overpowering. Brian channels the energy into watching the Frenchman, making sure he doesn’t blow this up.

Brian also appreciates Knight’s thoughtfulness in bringing the gun. “I’m absolved of responsibility, after all...”

Knight concludes.

“I was briefed about the essential elements of this story nearly six months ago. The US Government has taken appropriate action to roll up this network and to destroy all remaining supplies of Ford’s viral work.”

Of course, if that was true... this might not be necessary. But now the killer blow. “I’m telling you this because this is the fourth time it has happened. US classified researchers have attempted to release world-threatening plagues four times, this is simply the first one that’s succeeded. We have to close this down, we have to close this all down, and we must do it now.” There’s a moment where the President and Guanyin Ziru lock eyes. She knows, and he knows, that they’re probably both dead. But she’s sacrificed so much, for so long, that she has envied the dead in the gulags many times. Their struggle is over. But this... this is worth dying for, quickly or slowly. This event makes her whole lifetime worthwhile.

He, too, has justified his existence on this planet. He’s made history. He has no doubt left about himself. He’s done it. He’s the man he could never have been until history called. Made the grade. Kept the promise. Led the people. He’s... done.

The President closes the British Ambassador’s communications terminal.

“Ma salaud magnifique” says the French Ambassador, earning himself a place in history too.

Brian, unable to top that, asks “what next?” and the truth is, none of them know.

The limousine rolls on into the night. The three men sit in grave silence.

When the helicopters come, it is already too late.

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Guanyin Ziru estimates she has 10 minutes before somebody comes through her front door with a gun. It’s close: eight and a half.

In the time available, she does the first thing: strips the audio off the recording, trims away her name at the start, and concocts a vaguely plausible story about it being a leak from a rehearsal of an official American announcement planned for next week, and fires off 500 viral copies of it through the dissident’s equivalent of the high security classified network. It is a plausible enough tale, at least compared to the reality. It will cover the route the information has taken. It will buy... time. Time.

Guanyin Ziru does the next thing. She flood-fills a green screen background over the interior of the limo, meaning the video could have been taken anywhere, awaiting a digital composite background. She then trims the gun and her

name off the start of the video, and sends that cleaned, edited video after the audio file. The context is obscured. That’s all she can do. She can give him a chance.

It might be a leak from a tech at a dress rehearsal, but it is certainly not provably a leak from a President on a stolen terminal holding somebody at gunpoint. That’s the point. The message is what matters, not what he had to do to make this happen, she thinks, briefly questioning her journalistic integrity.

She decides she has protected her source as well as is possible. If they torture her, she will give them nothing.

She is protecting... An honest man. She has, in her heart, a flicker of hope for the human race. It has been a long time since she felt that.

When they come through the door, it’s police. They barely even enter the apartment, just pin her to her chair with the threat of immediate death. So she will live another day, at least. Minutes later come Special Police, then military intelligence follow immediately afterwards.

She risks a gambit: the files are gone, there is no proof of what she has deleted. This may be a negotiating edge. So she tells them the truth. They can prove nothing. It is the beginning of her rehabilitation in the eyes of the Chinese people. They can prove nothing, but a flicker of hope arises in Beijing too, that in America, there is an honest man.

Peace is fragile. Faith helps.

China waits, with interest, for further developments.

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President Knight sits, absurdly, in police custody.

They mention treason, but he simply toughs it out. If they were going to do that, he'd be dead already. When he finally walks back into the Oval Office, the first thing he does is watch the video of himself. Her touch of genius, taking out her name and the limo, leaves a slightly strangely positioned camera on what could easily be a first reading of a prepared statement. He's won. Or, at least, he's lived to fight another day. Bless her.

The press conference is delayed by a day to give time to clean house. It goes off without a hitch, at least in the most basic technical sense. But there is no denying that the power of the secret state in America is broken, there's a direct parallel between the US biowarfare incidents and the Russian's repeatedly almost launching all-out nuclear attacks on the US because of hardware failures in their missile early warning systems, which happened several times. He makes the point, over and over again, "we are not the first superpower to put the world at risk with poor control of our weapons" and that does, in fact, take the sting out of it. It also positions the sides in a very unexpected configuration, given the circumstances.

Slowly, the tide of global public opinion turns, and the Second Holocaust becomes a symbol of mankind's own self-destructive potentials, our inability to control what we create.

President Knight cannot save Christianity. Thomas Ford Junior IV was a true believer, his collaborators and covers were true believers, and the very seed of the thought that Armageddon was an event in Israel was rooted in his beliefs. Ford Junior thought this is how the Second

Coming could be triggered, and that it was in fact, his patriotic and sacred duty, that... in an awful parody of a careless comment once made in Vietnam, that he had to "destroy the world to save it."

President Knight finds the story shot-through with the poison of two thousand years of looking forwards to the destruction of the earth as a positive thing, as a step towards God. It, in the final analysis, turns his stomach.

With beliefs like these, no wonder when people break, they bring plagues behind them. He resolves to act again, having little to lose. It's all completely broken.

President Knight does the only rational thing. Drawing his inspiration from Thomas Jefferson, he re-affirms America's non-theistic foundations. When July 4th comes, the White House broadcasts a special address in which President Knight slaughters every remaining sacred cow and golden calf left, and makes America ashamed of its Christian heritage. He saddles religion with the blame for the Second Holocaust, and proclaims a secular faith, in America, in American values, and in progress.

He takes a stand, as if he is a man with nothing to lose.

And then they kill him, just like Kennedy.

And he becomes a martyr, and that changes the world.

He was, without a doubt, our greatest President.

Slowly, bloodily, the great American ship of State begins to turn away from its medieval heritage, and plots a new way forwards.

By the time Harry Vine is born, this is all ancient history. His father was a young man when President Knight died in a tragic helicopter

crash. But without President Knight, Gregory Vine would never have joined the State Department team after he got out of the service, and therefore he would almost certainly never have met Helen Congreve, and none of this would ever have happened.

Great men and women leave large footprints in history. They change everything.

And also nothing.

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Harry Pine walks at an even pace around a running track watching his mind very carefully, looking for signs the drugs are wearing off. The man walking beside him is unaware of Harry's internal processes and so, to a large degree, is Harry.

There is a box inside of his head. Harry is inside this box, but he's staring at a picture of the box, painted inside the box, which makes him think he's outside of the box, because you can't be inside a box and be looking at it from the outside. Therefore, to one part of himself he's inside of the box, and to another part outside. This paradox is a magical object, created by ritual magic, lodged deep in his symbolic system.

Or, just possibly, it's nothing more than an old man's trickery when he's out of cards.

Deep in his limbic system, he's outside of the box, because lizard-brains don't understand the difference between realities and pictures of things. In the cortex, he's inside of the box. He understands symbols. The two layers peel apart in their understanding of the situation because they see reality differently. The hope is that the split can contain the damage from having an empire ram its ideology down his drug-addled

brain. Two brains are better than one? How about three? Four? Sixteen...?

Harry's limbic brain is in total chaos and disarray. Awakened by years of spiritual practice, brought into harmonious coordination with the neocortex and even—on occasion—with the fearsome reptile brain, the basal ganglia, it has a better than even chance of distinguishing the drug experience from reality.

Harry gives it time to ponder, and pays attention to what he can process consciously. He's got good time cues, he knows when he took the pill and roughly what time it is now. That helps him imagine what family of drug it might be part of—Peter's talked to him extensively about these things, although discouraged experimentation (“until you've mastered your mind, even then, it's often ill-advised at best”) but, still... what's the drug doing, what's it saying? To which part of my brain does it speak.

The answer is staring Harry in the face, specifically the face of the man walking beside him, in uniform, eyes forwards, keeping pace.

“He's not my brother, I barely know him.”

Then

“He's not my brother, I have never met him before this day.”

Then, a breakthrough

“That man is a stranger.”

The rebellion in his midbrain takes the form of excruciating physical pain in his solar plexus, a spasm of pure animal fear.

Shit.

It's all becoming clearer. Harry is, for a moment, cool and clear. He is going to take this programming apart from the inside, and he's going to wear it like the skin of an animal killed in a shamanic hunt. Wolf or Bear or Mountain

Lion were, perhaps, his ancestor's skins. Harry's Skin will be... he's not sure how to put it...

Puppet.

Harry is going to wear the skin of the puppet, and he's going to pass unknown through this world of shades, and into a purer realm.

Still tripping, Harry thinks. That's not my language, we're immanent, not transcendent. We don't float above all this, we ARE all this.

So there's lift, too.

The animal brain starts to settle down. The smart one upstairs, the one with words, is not so crazy. Harry's body doesn't understand what is going on, but it's learned to trust that when the above-mind is confident and happy, that corresponds to good conditions all round.

There is confusion, but there is less fear. This can be made to work.

They wait, slowly testing the interconnections, puzzling out what has been done, far, far below Harry's conscious awareness of what is going on inside of his brain or his skin.

Puppet totem, the master hidden as the slave, is a potent clan.

Even if it never existed yesterday. Harry has his myth. Harry has his initiation.

Gregory is in a microcopter, a light aircraft about sixteen centimeters across, weighing 50 grams. Micromechanical motors keep it aloft on little more than occasional sunlight and background heat. It's peppered with a couple of dozen cameras, thermometers, a couple of useful general chemical sensors (ph, ammonia, alcohol, methane, high level VOCs) and a couple of applications-specific packages, one for vermin (distinctive compounds from rat and mouse shit, termites, weevils and similar) and one for locating gunshots precisely, to the square meter. Normally the drone feeds into an inventory computer, which simply dumps numbers into the constraint solvers of the EMPG (Enterprise Management, Policy and Governance) system that more or less is the State Department's Africa operations.

“You normally don't hear from these systems in weeks” thinks Gregory as he idly noses through the piles of Golden Rice 25kg bags just to be able to say he's looked around and there's no problem. State basically figures out dollars per calorie per person for each region, sets some policy priorities, and hits “Go!” and humans don't touch the operation again until food is being loaded on trucks. It's a pretty efficient operation.

Gregory's job is to handle exceptions, when the software doesn't deliver, or more commonly when the people don't deliver, and nobody's getting on a plane to the Sudan for \$2000 of missing food, or a tracking tag that ripped off in shipping. “Eyes and ears” is an integral part of hearts and minds.

Gregory says his mantra “Automation means Fraud, Fraud means Waste, Waste means Press, and Press means Trouble.” When somebody

ratholes the systems, they can stay undetected for years. It's rare, but it's devastating, now we can calculate how exactly how many people - and often their names - died because somebody stole from the system. The news sites love that stuff - pictures of kids on bicycles riding around from before a famine, then DECEASED, KILLED BY OUR CORRUPT STATE DEPARTMENT stamped over in big red letters. "Poor Denise Mbatho died last week, one of 54 children who have died this year because of..."

Because we've got less than a quarter percent of waste in this entire system, and... yeah.

There's just not a hell of a lot to do, but the systems say visual inspection of the entire warehouse is required, because of unspecified anomalies, so up and down the rows he goes. The machines did it, something didn't quite add up, and they're not sure what. AI... great when it works, but very bad at explaining itself. The systems are so complex internally...

There's a bit of spillage over there, a thick scattering of white grains trod into the sandy floor. No signs of tears in the bags on the stack, could have been there for months. Nothing, nothing, bored, bored bored.

It's all fine as long as the programmes run more-or-less silently, throwing some of America's wealth into patching up the holes. Something goes wrong, the Great Eye of the Public turns around on top of its pyramid, and all of a sudden everybody is reminded of Africa, of how little we're really doing for them, devastated by climate, high-tech war and disease. The pain has to go somewhere, and the State Department is the logical target.

"You're 2.4% of GDP! Why don't you do more?"

So Gregory flits around, looking for something software would not notice—a family camped out in a small shelter excavated out of the center of a pile of rice bags, with a roof covered in more rice bags, in one memorable instance – or more usually—rats and a false report from the pest control contracts.

Gregory banks the corners and imagines he's an a fighter, flying through skyscrapers.

"Pew-pew-pew, Godzilla at 6 o'clock Wing Commander Gregory!"

Finally there's something out of place. Gravel. Long trail of gravel tracked all the way up an aisle where a bag of "rice" got ripped and spilled out on the forklift. Makes sense.

Gregory punches out. He calls his boss and says "Looks like we've got some filler bags again" to the boss's digital assistant. "Can you schedule an inspection robot drop, and I'll do a manual inspection then? Get a couple of samples, wring the supplier's neck?"

The system processes just a hair longer than a person, and says "Ok, Gregory Vine, I heard your requests and will comply. Thank you!"

21st century voicemail, but the boss will never hear the message. It'll just get done, and Gregory will see a scheduled robot drop, one robot delivered by another robot, and go and find that for one or two deliveries, 1% or 2% of the bags are gravel, or (what a waste) all the bags are 5% gravel and...

Gregory vividly remembers flipping over a tank. The incredible power, as he jams his full bulk, in a 5 ton bot, right under the fire-shadow of the tracked behemoth, the screaming of the hydraulics as he pushes, and the tracks lift off the ground, making a space for Williams to get right under it, and then the two push and flip

the tank on its side. Williams shoots off a tread, just in case somebody rights it later, then they go to work on the crew hatch, hoping for a couple of prisoners and some information.

The little micro-copter settles in a patch of sunlight from a skylight, resting on a sack of the genetically engineered grain.

Gregory slips his goggles up off his face, sits up in the reclining chair, and stretches. It really is dull work. He stands up in the small office, and looks at an empty coffee cup. Time for a break.

He spends a quarter of his life alone in warehouses or flying over wells watching anonymous locals thumbs-up or thumbs-down to get a quick indicator of the local conditions. Instruments lie because people lie, and people lie because people are people, and... well, to them, he's a little plastic copter, or occasionally a semi-humanoid inspection robot, covered in all kinds of clever devices. In theory you can do surgery with one in a pinch, he's certainly done a few medical x-rays... They're serious pieces of equipment. He quite likes the gear. It's quality. Old. Gregory remembers when those inspection robots were state of the art, as good as industrial models. He's been with the department a long, long time.

They keep relics like me around because we know how to fly metal, and even if all we fly is plastic these days, we know how to fly. Really, when it gets right down to it, it's not the drone. It's the eyes and ears and mind behind the drone, that counts. They're extensions of our bodies, we're not putting our minds into the machines, we're wearing them.

Just like, in metal, you can sense the fighting spirit in an opposing unit even though both of you are secure in boxes, half way around the

globe, plugged into ultra low latency boom networks. Just like you can tell Direct Neural troops from across a kilometer by the way they move, even if you can't say why. Just like...

Gregory picks up a paper airplane he keeps on his desk, and tosses it across the room aiming for the top of the book case. It noses down too soon, crashes, lands on the floor. Boom.

Gregory wonders how his son is doing after Induction. He makes a fist and relaxes it two or three times. Tight, stiff. It's funny watching his son fly, he's an ape. He jams gestures out and pilots sim devices as if they were on a remote control, drags them around with his head. You just can't teach the kid how to blend over the wire, how to sort of... Gregory imagines shaping the flightpath of the paper airplane with a subtle twist of the shoulders, leaning on the non-existent aileron.

No, you can't teach the kid everything. Walking downstairs, Gregory wonders—for no rational reason—if he'll ever see his son again. But this is the Senior Cadets we're talking about: annual mortality approximately zero, on a 10 year line. Statistically it's almost certainly safer than staying at school. It's...

Not war. It's not anything like war.

In the kitchen, Gregory reflexively guesses lines of sight behind the toaster on the table and the kitchen taps, guessing the field of view from the salt cellar. Heavy weapons pound in the back of his head, and he misses the war, right or wrong. He was good at war.

Once in a while, somebody will call Gregory a "troubleshooter." Gregory thinks "you have no idea."

Some of the guys from the corps get together and play sims sometimes. Usually war games.

Usually old engagements. Greg can't do it. He needs to feel that somewhere, on the other side of the world, there are real atoms on the other side of the goggles.

It's the real world. What you see in a robot is the real world. The kid thinks it's just a sim, even when he's flying a little node. That's why he can't fly well.

Gregory walks into his wife's studio looking for her, perhaps they can take a break together, or go for a walk before dinner. She's passed out on the couch under a blanket, didn't really sleep last night because she was worried about Harry. He moves her legs over a bit, sits beside her, and holds her hand. She doesn't quite wake up, but he's comforted. There's something profound about being in your own flesh-and-bloody body, with familiar things, close to people. She's somewhere else, dreaming, flying some other body in some other place, a wonderland or an endless night.

The girls are at school, a few years and they'll have to go through all of this again with them, if either one opts into the service. Right now nothing looks less likely...

Gregory goes back into the kitchen. It's tempting to wake her up, tell her he loves her, tell her everything will be alright. Gregory makes the fist again. Tight as a stuck bolt. He's clearly a lot more worried than he consciously feels.

They should get a call around 6PM. He can do a couple of more hours. He rises, pats Helen's arm, and leaves her to sleep. They're worrying in shifts.

With good reason.

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Peter hums merrily along the highway in the van. He's playing the mandolin as the road drives the van, not a care in the world. He's let the situation go, as he must. Nothing he can do right now, short of huge efforts of will, can affect Harry's outcomes. And if he senses trouble, and throws the lad a rope, he'll probably wind up getting pulled in and drowning too.

So Peter focusses on the Great Perfection, on knowing that everything is, right now, as the Great Spirit, or God, or the Mother of Hydrogen, or whatever you want to term it, has willed things. It's not his job to save the world, it's not his job to save Harry, if Harry even needs saving.

It's his job to be Peter Vine, and right now, Peter thinks, that means zooming down the road on automatic, practicing the mandolin (I still suck!) and smoking a big spliff (legal, I'm not driving.) Peter is not blissful in an uncaring way, but he's blissful in the manner of a wise archer who's loosed the arrow waiting for it to strike its target. He can worry about the arrow in flight, or he can watch it's flight in delight, but he cannot control its flight.

He can assume anything is happening to Harry right now, wonders or apocalypses. The kid might have gone nuts and be locked in the brig, or he might have gone under and come to believe that the New Manifest Destiny is the vital truth, or he might be sitting there with the keys to unlock the heads of an entire generation, poked a hole in the Induction ritual's magical hold on this entire country. Anything could have happened. And every ounce of pressure that Peter had to apply to that situation, that ounce was applied as close as he can tell at the right time in the right measure, at least as judgement allows.

Bliss is how Peter reacts to the uncontrollable unknown. That's what makes him a hippie, nearly 100 years after the term was invented. Peter secretly hopes he'll live until the 2060s, and he can be a Child of the 60s once again. He thinks about going to Gaskin's Farm, now a thriving little Amish village, 20 years ago, and kissing the sacred ground where St. Steven's people lived and worked, setting fires that burn strong to this day, if you know where to look for the thread, The Well, the Whole Earth movement, all of it. Perhaps he should head to Tennessee for the winter, where it's mild, and in the air a little magic lingers.

Peter realizes how tired he is. It's a strain, maintaining this world model, this way of life, in the face of the machinery. He wants to rest, not just body, but soul, to lie down in the soft, deep earth, and sleep for 200 years. But it is not given yet. He drifts off to sleep in the van's passenger seat, joint in the ash tray, mandolin in his lap. As he falls asleep, he feels Helen in his dreams, holding her son's head above water through a hole in the ice of a frozen lake. Gregory is there too, wearing a thick sweater in an odd purple-grey color, sliding a ladder across the ice. Peter falls beyond the dream, and into dreamless sleep.

The van streams down the highway, thinking about nothing beyond road safety and driving heuristics. It's going to Asheville.

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Gregory falls asleep in the chair before he can plug into the next node. Nobody minds, it happens sometimes. If it's urgent, they'll wake him up with beeps and vibrating gloves.

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I'm sitting on the floor of the disabled access bathroom, door locked, cross legged on a field jacket. I am going to sort this out now, or I'm going to die trying. It's all scrambled, my mind's turning itself inside out, the twists and folds of the paper in my head, the splits in my personality-mind-brain layers unwinding, falling apart. It feels like my head is on fire, and all I want is to get out of this somehow. Not the Senior Cadets, not my body. I want to get out of existence. Even death won't do it. There's a contradiction in terms wedged into my being, a paradox, some great lie that's forcing me out of existence, forcing me out of being itself, a lie that's greater than my truth is killing my soul, eating me up. It's death.

One level up, I'm fairly sure this is going fine. As Peter suggested, the damage is contained. Unfortunately it seems to be upside down. I thought it'd be my rational mind that got turned inside out, coming to believe that America is God or something equally asinine, but it's the other way round. I can still tell that we're an Empire, that we're killing the world, that the corruption's down to the bone. All that's still true, and I'm having no problems holding it in my mind. I'm fine.

But my emotional self, my body's intelligence, is insane. It's chewing through realities like there's no tomorrow, roiling the waters like a dying crocodile, and I don't know why. I can't figure out what's wrong, why it's so incredibly... I don't even know the emotions, they keep changing. Something huge has activated.

All I can do is keep breathing, and keep listening, see if I can pick up some subtle thread, some clue, some line. I'm not that far out of whack here, other people... they may come to believe what's not true, but they don't become flesh eating zombies.

Well... unless you're on the other end of the gun. Then... we dine on flesh, yes, indeed. And that's the angle.

The whole thing peels apart in my mind, I can feel the layers separate, then combine. I'm struggling with everything I have to slide out some tiny detail, and it's as deadly as a peanut allergy. Some tiny glitch in the immune system, your body misidentifies nuts as deadly poisons, and over-reacts badly enough to make them deadly poisons. Choking out on a trace of peanut butter left on a knife. Self-fulfilling prophecy. It's like that, an allergy to lies. Dying of it.

I think about the Senior Cadets I've seen, their self-assurance. It's copied, copied, copied but not from their fathers, it's copied-copied-copied but not from their brothers, their uncles or their friends. It's a discontinuity, something grafted into them, an identity.

A blind.

I've lost it again, peeling, spiraling back into the chaos. It surges and foams. It's all peeled apart and split as the pieces are forced back together. No house can stand divided amongst itself. I'm thrashing around inside myself, the mental equivalent of food poisoning. I wait for the next wave, determined to catch it this time. There can't be much time left, eventually mess time will come, and I'll have to park all this. If I can do that without going off my rocker.

Again it surges. My animal self's trying to throw up a lie, vomiting out something wrong, something evil, searching for internal consistency. It's vile, the animal intelligence in all of us is a simple beast, easy to please, it was not meant for this. We're not meant to... live in a world... like.

Click. It tears and twists to the surface, by degrees. I get glimpses of the open plains but I can't tell if it's mythic Africa or Papa's imagined Great Plains. It's soaked in blood, so probably here.

I see the white people as grinning skulls in the night. Then the horror: my sisters' faces, as gnawing zombies, the blue of their eyes made neon and piercing. Then it snaps, and a Senior Cadet beats them off with a rifle butt, and I cling to his legs, sheltered. He loves me.

Snap. I feel stuff tearing inside me as the implant comes free, as my animal self splits self from other and vomits out the introject.

I see the State, the Flag, the Cadets, everything else interconnected into a great predator, the Sovereign Reich, a sort of mental infection. The Queen Bee lands among the people, and they obey her, they feed her brood for the right to live in her house, which they themselves built. Mutual enslavement, orchestrated by the grid, an organizing center. It's organizing us for its own benefit, we get two parts, it gets one, and it grows stronger-and-stronger-and-stronger-and I can see light at the end of the tunnel. It's coming together.

I lose it again twice, and then it all rips free in a single piece.

It's a lineage, just like the magic from Peter. It's the lineage of the grey-faced men and women who comprised the State, from the age of the Kings. They organize, they optimize, they improve, but they take a cut out of the system's yield on each pass, and when growth stops, the entire model of taking-a-cut-of-the-profits turns into servitude and destitution, as they take slice after slice out of the flesh of the nation. Overseers, slave-masters, managers, all one single lineage, those who must be obeyed, or you're turned out of house and home, out on to the streets, which are owned by the city, by the territory, by the Crown.

Ultimately, and then I see it in total, clear relief, sodium light.

Ultimately, we've gone beyond our own evolution. All they're doing at Induction is taking the next step - "your real family isn't the people that made your body, it's the people who feed and protect you, the service." The shape of the organism has changed, we're no longer little tribes of field monkeys defending rocky outcrops from big cats and hyenas, we're...

Links in the supply chain. There I am, eating food from the service, away from my home, doing as I'm told, to implement directives.

I'm a cell in an organism, but that organism is a cancer.

I tear free, and look around me. Bricks and mortar, steel and wire, radio waves and visible light. There isn't a natural thing left in my life, except possibly what's happening with Emma, which is as old as genes, maybe older.

And there it is. Right in the root of me, there's an instinct to protect all life. To create new life. And it's being perverted into an instinct to protect not life, or even just my species, the hu-

mans, but something much more selective: the Americans, and specifically, the service. My species is supposed to be Government, not human.

Induction makes me a member of a new genus, Homo Militaris, the self-replicating viral invasion of wars.

The uniform is my skin and I am click.

Wearing it.

It peels off in a sheet, a whole identity, a mind-set, something passed down from Rome or Greece or perhaps Sumeria before that, The Man of the King, a member of a Royal Household super-organism, clamped on top of the local peasantry like a vine enmeshed in a tree, offering order for 20% off the top, a symbiotic living on the float, multiplying gain and causing agonizing pain on loss, it's...

It goes on for what seems like hours, and then it settles in. It's fairly simple.

Because America is as much responsible for my welfare as my family is, my deep physical intelligence, the animal mind, wants to relate to America as if it was a family member. But America doesn't have a face.

At Induction, they were pushing Colonel Gibbons into my head as a sort of State Father, a... a third parent, a stand-in for Jefferson, for Washington, for the President for that old mythical form, Uncle Sam. And the impulse to imitate a role model, to copy... the Senior Cadets age because they take a graft from a much older man. It's an introject.

I'm holding a chunk of John Gibbon's substance in my mind, not him as the individual, but him as the vehicle for the National Will, our group mind. He's the Vicar of Jefferson, the

Priest of the New Manifest Destiny Church of the Interim Ruling. He's plugging directly into the old Christian wiring, where everything flowed uphill to the Pope, and then to Christ, and then to God, that old murderous sky bastard wreaking his wrath and vengeance on the innocent and the rebellious alike.

They've taken everything we used to feel about the Earth as the source of nourishment and Wonder, and transferred it to two ghosts: the Economy and the Nation State.

They feed us, they clothe us, they...

I see the little pill come back up. John Gibbons is not my father, and I am not going to grow up to be just like him. The Senior Cadets are not my brothers, they're conscripts, just like I am. There's no "esprit de corps" beyond a bunch of teenagers in uniform smelling each-others pheromones and forming a territorial gang.

They are hacking us to support a super-organism called a country, and it's bleeding us to the bone.

The State is not my father. The State is not my mother.

My father is my father. My mother is my mother.

The Earth is their support, as it is mine.

With a staggering flash, it comes right through. I clearly perceive myself to be a hundred kilograms of billions-of-years old atoms, clung by gravity to the surface of a great dark sphere whirling in space, cruising around a ball of fusing gas. I'm a ripple in bits of the earth, nothing more, but I'm part of something so sacred, so ancient! This is Wonder. Then I see the pattern integrity of my body subsumed into the pattern integrity of an even greater structure, the State, and then the system of the world, and then...

it's us, we've turned against the natural order of things, our self-awareness unconsciously biting the hand that feeds, turning on the life that made us, enslaved by the mind. The lesser eats the greater, for it's own continuation, and the balance of nature is violated.

The microcode, the firmware of my animal self, is stripping the poison back out of my rational mind, but it's going far, far further than undoing the Induction. It's stripping me right back out of the culture.

I'm an ape in a suit, cross-legged in a strange, small cubic cave.

My evolutionary heritage rises up my spine, over my head, and engulfs me.

I see the whole world, lots of tiny magnets pointed towards an imaginary God, rather than towards the real, observable pole of Life. I see layers and layers of imaginary mental nonsense layered on top of a simple truth, "life is good", trying to obscure it behind layer after layer after layer of "if you buy this new and amazing" or "if you obey the rules" or

It blows me right out of my frame.

Unconditional love. I don't want to kill anybody. I don't want anybody to kill anybody. I don't... there's a twist... hunting for food to feed the kids, I'd kill a deer for my sisters, somehow...

I feel everything changing, like a canoe that's been upside down in the water flipping up, and for the first time in my life, I can breathe air!

We don't have to live like this. It's a shattering blow. I see my ancestors spread out across time, realize that as long as we pass something forwards of what came before, that's enough. I see wolf and deer and beavers, not those exact animals, but the ancient, ancient forms that we

evolved from, pre proto-monkeys, little pigs, the first furry shrews, nosing around among dinosaur bones.

I see the whole framework, the whole tree of life before me, and I see my branch of humanity, wrapped around it like a vine, choking the life out of the trunk. We're parasites, and we've gone mad. And Induction's just the next step. We've completely lost our center and our values, we're not even taking care of our families, never mind the world.

Snap.

Layer after layer tears off, until I'm sitting there naked. I move slowly, gently, and stand up. I'm straighter and clearer than I've ever felt, and there's no me, no animal-self, no human-self, nothing beyond... this.

I move inside of my clothes, feel them as a surface on my skin, quite distinct, and quite separate.

I understand now. I'm an animal, in a world of animals that have become confused. There's no rational mind, there's no animal mind, there's just mind, formed from the ancient evolutionary cores, watching the feet or the skies or the inner terrains directed by attention.

All of the conditioning drops. I feel myself smooth and hard and round like a pebble, like the pill that I ingested. All the layers, all the revelations seem cheap and untrue, passing fancies.

The room ripples slightly, the drugs not quite spent.

I put myself back into the room during the Induction, and I see it now. The whole message is "this is what a successful adult male of your species looks like", and every level of my mind has processed it in a different way. They're

pointing us at these military archetypes like we're little compass points, and they're using the drugs as a big old electromagnet.

"Be one of these."

I shiver and shake it out of my bones. I see the paper unfold in my mind, and I rub the picture of the origami box off its surface. It vanishes, and I'm better.

But if I'm not going to be Colonel Gibbons, and I'm not going to be my father, and I'm not going to be Peter, who am I going to be?

No wonder the conditioning takes so deeply: they take the hardest decision in your life, and they make it for you, and then they dare you to change their mind.

Something forms. It reminds me of the spear, but it's consciously directed, like choosing to see. I realize that the force inside of me that I used to feel as instinct, as lust, as anger, as need has changed. I think about Emma and what I feel isn't just desire, it's the desire-to-make-people. Food's the desire to move, to act, to be. I realize that I'm not feeling nature, the natural drives, as separate things anymore, but they aren't blind forces any more. I'm... just...

Peter makes a lot more sense. He's just rolling with this.

I'm not going to just roll with it. I'm going to steer, guide, go places. I don't want to be a passive part of this world, rolling down stream. I want to guide it. I'm not just an expression of nature, and I'm not just a cog in a machine. This life is mine to make something worthwhile of. And I'm going to do it.

I open the bathroom door, check nothing's out of place, and walk through a short corridor into the barracks. I've got about 20 minutes before

the next scheduled event. Most of the cadets are lying on their bunks reading, writing or sleeping. Most look glorious, free from doubt. One or two look pensive.

We're out of our home groups now, no longer among familiar faces. From the corner of my eye, I catch myself comparing faces. "Brothers?" some part of me asks.

"NO" I say to myself. "Senior Cadets."

I make my way to my bunk, nod to a couple of people, and lie down. I close my eyes and very clearly visualize myself pulling the Puppet over me, the marionette dancing on strings, and I settle into this fake me, this non-person I'm going to be for the next one or possibly two years.

When I wake up, I have the most intense feeling that I've been with my parents and Peter only seconds before. I don't remember dreaming.

People shuffling around getting ready for dinner and the commencement speech. I find that I'm eager and excited, optimistic and chipper, looking forwards to seeing more of my new peers and our new way of life. I make a mental note to call Emma, and then call home as I walk across the base to the mess hall.

Mom answers the phone. I feel the Puppet's mouth open, then push it out the way and say "Hey... I'm still here." She laughs. I say "no, seriously, I absolutely understand how I'm supposed to feel, the warm patriotic glow and all that, but I'm still your son, and I'm not going to become anything that I don't want to be, and I love you."

She smiles, and says "I'm so proud of you. I'll let Dad and Peter know that you're well. See you!"

I'm at the mess hall, and inside, it's like look-

ing at a motor. People move as if on belts, cogs and pistons serve food on to plates, the pieces of the machine functioning as a whole. I let the Puppet take over, and the room fills with warm, friendly, wholesome people who are working together to make the best of their new opportunities as Senior Cadets in the greatest country on earth. I smile with an easy camaraderie, effortlessly making small-talk with John, Jim, Jane, Gerald, Hazel, Tom, Dick, Harry, Gilgamesh and Enkidu. They're friends, their family, they're the people I'm going to work with for a year and...

peeping out between the cracks, I see the whole thing for what it is: one great big fraud, convincing us that the higher-order functions of society have replaced our dependence on nature ... and the Puppet goes about its business, masking the Shaman from view, while I sharpen my claws and go about my business.

I fall asleep, and other than my time with my family, I do not wake up for a year.

I wrap the safe in a cardboard box, so nobody can see it, then cut a hole in the box so I can immerse the leg of my bed in the safe's nanofibres, anchoring it securely.

Only I can reach inside of the box to retrieve anything or free the bed leg. But the only objects I keep in the safe are my keys and remote when I'm asleep, and a single sheet of origami paper, with a box drawn on it freehand and a box of matches.

I have no secrets.

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Emma and I are talking. She's very, very angry with me.

"I told you that I wanted us to be together this weekend, Harry! It was important to me."

She's crying. I think about whether this is a job for the Puppet or me, and I realize I'd better let the Puppet handle it. Is that heartless?

She takes another stab at it.

"We're in this together, and I want you to meet the Cadets I'm serving with. You're supposed to be at the base, here with me this weekend! They're simply the most amazing people, they're so important to me, and you're blowing it off to spend time with people you've seen every day for your entire life! Get with the program!"

Definitely a job for the Puppet. I can't handle this without... breaking. I can't fix this. Mentally, I see her slipping out of reach down a ravine, falling into night.

The Puppet says "I don't think it's appropriate for you to question my values this way, Emma. My base commander thinks it's important for us to spend time with our families at regular intervals so that we are not leaving a gap at home in the ordinary flow of family life. Helps puts people's minds at ease."

"Well, that's not how we do things here." she snaps.

I peek out at her for the last time, and see the face that I'd loved, transformed. There's a driven hardness there, a passion and intensity that knows nothing of what had gone between us before. I've lost her forever, and she's lost herself too.

"I think you'd better do this your way from now on" she says, and I feel the finality. Something between us dies, and she says "I'll miss

you" and, for a moment, I see a flicker of her that means it surface, and then slip away below the mask of duty.

I fold the box around myself quickly and calmly, and let The Puppet take care of it. I'll be back later.

---

Everything which was great in the past eventually faded away. What made you think this was going to last forever?

---

At the end of the year in the Senior Cadets, my Puppet has learned to take orders, give orders, fire a non-sim rifle, spent a little time running a non-sim mech, learned an easy-to-train martial art based on conditioning reflexes using cortical stimulation, and been trained in a uniquely American political theory called New Manifest Destiny which suggests that it's our job to be the world's protection against nanotechnology and biotechnology, because the Second Holocaust proves that we're the only ones who can do it, because only we have the technical prowess and the moral integrity. I think that President Knight would be turning over in his fiery grave, but that's not my job right now. I'm not here to think.

My Puppet is patient and fascinated. I'm utterly bored and disgusted, but I only check in once a day.

I want the end to be visible. I come back fully for the last few hours of the Senior Cadet period. To make sure that I don't fuck up, I spend half an hour in a mirror, practicing The Puppet's

ways. I haven't analyzed exactly how it all works but I get the basics. A certain amount of emotion and disconnection is natural enough at a time like this, we're all going our separate ways, all becoming parts of something different, something new. Our lives, for most of us, or another year in the service for the others.

It's the same mess hall that we ate in a year ago, when I went under. I look with both sets of eyes at the same time, and it all makes perfect sense.

From a human perspective, everything is fine. They're young, healthy, happy, productive cogs, each perfectly its own shape, working in The Machine. They didn't design the machine, they didn't build the machine, they're cogs. Says so right on the box.

Cog to my left hands me the water jug to pass to cog on my right. I pass it. I'm a cog too, in the water-jug-delivery machine. That's just good manners. Good cog, good cog.

The Machine tells itself, and tells us, that it's saving the world. But as you know, we had to kill the world to save it. That's good ol' John Ford Junior IV, the real architect of our civilization, the Last Good Christian who inspired the Antichrist, President Knight, to turn against our Godly Ways. You hear it in the streets sometimes, usually from homeless people, but a lot of people believe it in the privacy of their own homes, serpents of hatred wrapped around their bibles.

I've spent a year dead rather than being a Cog. I realize that inside, from within their own heads, they're people, just like me. Outside, head-heart-and-hands, much the same. Some tall, some short, but much the same, much the same. But it's the patterns of relationships that

do it. A brick in a wall is the same as a brick falling from the 99th floor on to somebody's head, the difference is only position and momentum. Every one of these kids is a person, a human being, forced by their parents, their country and their circumstances into these straightjackets. Position and momentum.

I'm overwhelmed by the humanity of it all. I must look upset, there's concern from... Berg, William Berg opposite me. He says, and it's completely genuine "I understand what you're going through, Brother, I feel it too, right here" he thumps his chest "in my heart. It's been a privilege and an honor serving with you, and I'm glad we've been friends."

I have literally no idea who this man is. He's a performance, going through the motions in his little lost world, and I realize we're all lost here. They find their place in The Machine, and as long as they don't question its overall functions, they're fine. He's not relating to me, he's relating to my function relative to his in The Machine. I'm Bunk 41, I'm Second Rifle, I'm Sim Pod 4, I'm Right Flank, Left Wing, Rear Forward Gunner, I'm... Senior Cadet Vine.

Senior Cadet Vine knows the dance. I jam my hand across the table, and he meets it with his, and we shake hands and squeeze them tight for a precise half-second longer than a handshake, and he says "Proud to have served with you!" and I reply "An honor! Will you stay in the service?" and he says "no, I'm going to go back to my sweetheart, and we're going to get married" and I say "congratulations!" and there's a rousing cheer and it's the best thing ever. Everyone thinks it's fabulous. It's the best.

It's taken a year of being an automaton to find compassion for them, but I have. I'm going to have to look elsewhere to find a way out of this. I'm going to have to break right through this veil of tears, and out into the wilds.

I could even look for whoever's designing the brainwashing, mandating the drugs, all of that. I could look for the unseen hand at the wheel, but when I get there, it's going to be another cog, blindly turning out the specifications for other cogs, in the cog specification subsystem of The Machine. It's just a blind maze.

It all drains right out of me, the cadet thing, I'm as empty as I was on that bathroom floor after Induction. It's time to go home.

---

I go home from the base, in my grays, a Senior Cadet in everybody's eyes, but inside I'm a hollow man. There's nothing left.

I arrive on my own doorstep a stranger, and ring the bell. Mom opens the door, and she's done something very, very unusual. She's holding a beer, for me, on the doorstep. She presses it into my hand, and pulls me through into the lounge without the traditional Mom Thing we always do. She sits me down, and my father is there too, also with a beer. It's some ritual of adulthood.

We clink glasses, and she says "Welcome home, son. What do you need?"

I think about whether to give a socially acceptable response, let The Puppet answer, or to say something real.

"I don't know, Mom, I don't know" and then I put my head on her shoulder, and Dad comes

and sits beside me, and we slowly drink beer and watch time passing.

I'm 18 years old. I don't even remember my 18th birthday, but I got through the Senior Cadet year without becoming a cadet. But in the process, I got lost, and I don't know who I am any more.

I wonder if this is success or failure from Peter's point of view, and then I start to cry. She puts her arm around me, and Dad too, and they hold me for a while, and then I go upstairs, and I lie down, and the tears continue to come.

The World! The World!

What has it come to?

I can't find a place, I can't find a place to be.

---

I lie in bed for a month, depressed, weepy. It all seems so pointless, so violent, I can't wrap my head around any of this. I put on a brave face in front of my sisters, but when they're not around, I try to let it show, try to make it clear to my parents how fucked I feel. They accept, they understand, but I'm out of their range. Nobody really knows what to do. That's not surprising: we're brainwashing a generation.

The others, they're all around me, going forwards with their lives, and I'm stuck out here, alone in the white hell of knowledge, seeing the lies, seeing the lines, seeing what we're really doing as a people and as a culture, and there's nothing I can do about it, there's no way out, back or forwards.

Eventually I realize I've shaken The Puppet out of my system, and that helps, but I'm still in dreadful shape. Eventually I decide I need to see Peter.

Peter invites me to come out to see him, and it's mid-Summer so I have time, so I do. I fly to Seattle, and he picks me up from the airport in the van, which now sports trays of seedlings against every window. I squeeze into the vehicle, more crowded with junk than ever, and he looks me over carefully. He's driving manual out of the built-up area, on to the freeway. Once we're on automatic, he says "Son, I'm proud of you."

More tears. "I don't understand anything any more, Uncle Peter, what the hell are we doing? What the hell is going on?"

He takes me by the hand, and says in slow, measured words, clearly concerned "Every generation goes through this, Harry. The accommodation between Man and the Machine."

I look at him and realize that he's got me through this with my soul intact, I haven't been hacked by the State like poor Emma, slid and fallen—but I'm not helped, not by any of this.

I wonder where we're going.

Peter continues, and it breaks my heart "If I had any answers, to the big questions, about how we live, about what to do next, I'd be a second Krishna and my life's work would be our Gita. I'm just a man too, Peter. I'm Awake, I can see what's happening just the same as you, and I'm 40 years older."

It sits between us, this moment, soft and torn, as fragile as a wounded eye. I look at him and say "what the hell are we going to do?" and he says, without any hesitation "keep on keeping on."

I ponder, I don't know how to take it. We're headed straight East, into the boonies, middle of nowhere. I realize that I don't understand what he means.

Peter doesn't catch the disconnect, and I don't know how to ask him.

Then, unexpectedly, he puts on a piece of music. Grateful Dead, nearly a hundred years old. Box of Rain. The music is pathetic, the recording is horrible, and the lyrics are exactly where I am right now, lost and abandoned and, even in the heart of my family, completely alone. I want to punch him. You old hippie bastard.

Finally he says something I can understand, something that helps. "We've been at this a while, Son, we've been at this for thousands of years. I don't think it's getting any easier."

And then he holds his arms out in a cross, and mimes hammering in nails, and I get it, I understand the whole thing. We're doing the best we can, and it's not really enough.

The van drives on, and the old bastard insists on playing more music from the dawn of time, and plinking along on his bloody mandolin. He can't play a goddamned note and I want to wrap the thing around his neck, but he's not going to let me get away with anything. Three hours later when we arrive at... where the hell are we? he switches back to manual, and I feel a lot, lot better. I almost feel like myself again.

Most mysterious. We're kilometers up a dirt track in the woods, slightly left of the middle of nowhere. In the clearing, there are four or five small log cabins, one of which may be a chicken coup. There are half a dozen small children, led by a tiny girl wearing dungarees who's the eldest of the group, but very small for her age, carrying an actual chicken across the yard to a strapping woman in a denim skirt, hair tied up in a red scarf. She's about 40.

"Here's the boy, Annie! What do you think?"

She looks me over, "Needs supper!" she says, and leads us inside, the hen under her arm. We file inside, the kids very quiet and well behaved, and I wonder where the hell I am. Inside the house there are dozens, no, make that hundreds of pictures of old people, mostly black-and-white paper pictures behind glass, yellowed by age. They're tiled on the walls, they're on top of every flat surface, they're laminated under the table's surface. We're in an open-plan kitchen-bedroom-livingroom-studio-loft. An older man, probably older than Peter follows us in from outside and sits down on a chair. He's short, tan, with a mustache and a cloth cap. His forearms are huge, with a faded tattoo of an anchor on one forearm. "Chad."

Annie inspects one of the feet of the hen, and applies cream, then instructs the kids to take it back to the henhouse and make themselves scarce. "I've got the kids today."

I'm thinking "commune." Peter is drinking water, and engaged in some kind of mind meld with Chad. They just sit there, breathing in rhythm. I'm tempted to join them, but I'm so burned out.

Annie washes her hands, then sits down at the table with us. She ignores the men, and looks at me very closely. "So Peter tells me you beat the Induction?"

Oh shit. It hits me in a flash. "Peter's Network." I'm a fucking vaccine.

There's a moment of rising panic. Tool? Person? Tool? Person? Am I a pawn, or am I...

Then I freeze, and relax.

"Yes, I guess I did, but it wiped me out. But I don't believe any of it, this New America crap. It's a secular religion over the same old Imperialist bull crap."

Annie nods, approves. “Yep, for a Senior Caded as of a month ago, I’d say that’s a bona fides miracle.” I think about it. I try to imagine William Berg shaking hands with me over the table discussing the Empire. I realize he’d be as unable to see it as I’m unable to see a way out of this mess. Annie says “I don’t think there’s any reason to doubt yourself, Harry. You’re the first person we’re aware of to shake it. They’re psycho-morphing a generation. They’re closing down dissent for keeps.”

We’re part of a proud history, I guess. Civil rights movement, anti-draft movement, Campaign for Nuclear Disarmament, the anti-war movement, Amnesty, all of these things. And I suppose the Induction is, yeah... yeah...

I start to cry again, very softly. Tears silently flow down my cheeks. She looks at me sympathetically. “You’re tired, man, you’re so tired you can hardly stand. Peter, can we keep him on the farm for a while?”

I don’t think I want this, but Peter says “only here for a few days, Ma’am, we have plans.” I’m grateful, I’m not comfortable here.

I ask Annie “Who are the pictures of?”

“Saints, avatars and ascended masters.” She points out some faces “Gandhi, Ramana Maharishi, Manly P. Hall, Saul Alinsky, Castille Rabat, Robert Anton Wilson, Meher Baba, Da Free John, Jim Morrison, Babaji, you know... the usual crowd.”

Castille Rabat I recognize. Human rights leader, Turkey I think, sometime before I was born. The rest are ghosts to me except for Gandhi. In the picture, he’s a young man in a suit with a huge mustache.

“So, who are you people?” I ask, slightly rude, but I’m not comfortable with it all.

“Well, my people have been in and out of Seattle since the 60s, when times are good we live in the city, when times are bad, like now, we’re out here and we try and keep ourselves to ourselves, let it all flow by. My great-grandmother knew Janis Joplin, they’d go drinking together. Mom kept the land, and after President Knight died, we figured it was time to move back out here when we got a chance, because they’d be back.”

Chad speaks unexpectedly. “Your uncle’s been welcome here for forty years, Harry. We’re old friends. We go all the way back.”

There’s something deep here. Some current, something old. Witchcraft, I think, the little old woman who lived in a shoe. Something about nursery rhymes, the little band of feral children (they can’t all be hers!) it’s all too strange for me right now.

I’ve seen some places with Peter, but never here, never people like this.

Chad goes outside. Peter says “you’re among friends, Harry. These are my people.” Chad returns. He pulls a leather pouch from his pocket, and starts to hand roll a joint. Annie says “if you can beat Induction, I want you to teach my kids when they’re of age, I want you to show us what you did to keep yourself free of this bullshit.”

I feel it close like a trap around me. They’ve got me.

“Sure”, I say. “Sure.”

I’m in now. I’m in the oldest conspiracy in the book. I can’t tell if I’m any freer than I would have been if I’d taken the induction on the nose and lined up to be a slave.

Although I feel slightly better, there’s something out there in the future to do, I still feel basically dreadful. What am I going to do with my life?

Annie gets to making something to eat, while Chad goes to round up the children. They’re babysitting for the other folks who they share the land with, who’re out in the fields farming by hand.

I think “wood fires and animal skins?” and, actually, I’m not far off the mark. We talk into the evening, and after the kids have gone to bed, two other couples and a young woman come over to Annie’s. The two couples are straight from central casting. Dave and Mysore. He’s a plant biologist turned “applied agronomist.” She’s a craft weaver who teaches in high schools, but mostly farming right now. They’re maybe 10 years younger than Annie, mid thirties perhaps, but it’s hard to tell. No cultural cues, they could be a very young 60. The very small girl is their eldest daughter, she’s had various tests, she’s just tiny. Almost elfin, I comment. They smile warmly, “our little elf!”

The other pair I understand a little better. John’s a field engineer, power systems and mechanicals. Joanna, his wife and her sister Laurie are from out here, grew up on farms, a journalist and not a journalist...

I look at Laurie. She’s... maybe 22 or 23, she looks like a woman to me, not a girl, but I still want her. Dark, long hair, dark eyes, very quiet, very... feminine. She hardly says a word over dinner. I think maybe there’s something there, some eye-contact, a held gaze, but I’m not at all sure of my ground here. But... it would be good, it would be...

I don’t want to admit how broken and fragile I feel.

Peter, mercifully, keeps the conversation off me. Nothing to do with Induction, nothing more than a brief family background and I tell some stories about our travels when I was a child. Peter says “he’s been like a son to me” and I realize, yes, I’ve been lucky on this too. I might feel hollowed out, but there’s something here, something real.

There’s red wine, and music, some recorded, but also a few songs. Annie and Chad do a very, very good impression of having walked straight out of the mythic past, right down to their folk music. Vegetarian food, rice... I wonder if, at some level, they’re hiding in the past, some kind of... the word comes unbidden. Ashram.

The next day, it’s clear something else is up. Not just a social call. Peter and Annie seem to have come to some conclusions about me, without me.

Annie’s as frank as a pimp. “Laurie thinks she’d be good for you, Peter, and I agree.”

I’m speechless. I’m about to say something, when Peter continues. “They’re friends, here, Peter, they know... how to help.”

I’m not sure what that implies, but I get the general idea. Either way, this is good for me. I say “that would be great, I feel like 50 miles of rough road” trying for an approximation of how they talk to me.

“Great. Talk to her tonight.”

---

It gets weirder. Laurie and I sit on the porch of her end of the cabin she shares with her sister and brother-in-law, and Laurie says “Peter’s been my teacher too. It’s so good to meet you. We’ve travelled the same path for years.”

I want to ask her who Peter is here, and I’m feeling frank “So... he’s your... guru? To me he’s just Uncle Peter.”

Rubicon. Crossed.

“Harry, Peter’s about the most powerful magician we have left in North America. He’s like a king.”

I ponder this. I realize that, at some kind of absolute level, I’ve never seen him put a foot wrong. In his own way, he’s fighting the State, fighting the Powers that Be, living as free as anybody can imagine, fighting his own battles, struggling, but...

“Oh. I see.”

She comes closer to me, presses her leg against mine, shared warmth. “He really is just family to you, isn’t he?” She’s curious, not just friendly, but curious. “What was it like growing up with him, Harry?”

I try and explain. Summers, the meditation, the travel, the... people... the sense of somehow falling into step with him. I don’t tell her about the spear, but then it’s blindingly obvious, really, isn’t it.

I realize I have no control of my life, or the situation.

The Cup.

The thought forms, and she catches it. All she says is “you’re wounded.” Yes, yes I am.

I’m less confused than I was with Emma. I’m in lust, she’s beautiful, she’s on my wavelength, she understands. I’m here for three days, then we’ll be on opposite coasts. I don’t think this is... love? But also... Spear. Cup. Spear. Cup.

Magic.

Harry stands inside the tiny room. He’s wearing a towel, and two strands of red beads.

Perhaps unexpectedly, Annie and Peter are there too. Laurie is naked. Annie and Peter are normally dressed, except for Peter’s wearing a red shirt, and Annie’s wearing a red jacket, corduroy, and (absurdly) a red neck tie. I feel like I’ve fallen through a hole in time.

Peter opens the circle. Wand, chanting, invocation, meditation, it’s the full production. I’m higher than a kite, but in the open circle, I feel... chewed. I get weaker and weaker as the space opens up until, at the peak of the clarity, I realize I’m a ghost in my own skin, my own shade haunting my flesh. I’m... unwell.

I’ve never seen somebody around my own age in the circle. Laurie was compelling clothed and in normal space. Naked and in the circle, she’s every woman I’ve ever seen, combined, squared. She’s amazingly easy in her skin, not the nudity of girls in the shared showers, but naked. It’s fully sexual (Peter approves and Annie is at least appreciative) but it’s also... just Her. She’s just being who she is.

Peter and Annie hold hands, and smile. After a few minutes, Peter leads her to the bed and sits down. She puts her head on his lap, and curls up like a cat. Peter absent-mindedly strokes her arm, and they look like lovers. I can’t quite tell what’s going on here, perhaps it’s not my business.

However.

Laurie’s beating a small drum. On every stroke, her breasts, below the deep tan-line of her t-shirts, jiggle. I fall further into trance. She’s walking around me very slowly, and she occasionally reaches out and touches me in a very probing way—back of my heart, top of my neck, and just above my groin. I’m fully erect but I

don't sense any immediate... it's not quite sex, whatever is going on.

"Lie down."

There are a couple of large cushions on the floor, square, flat pillows. I lie down on my back, and she lies down beside me, and presses into my side. She puts a hand on my forehead.

"Breathe."

Slow and clear, like a breath for meditation. Laurie synchronizes her breathing to mine, and slowly, slowly something begins to happen. We're physically close, skin touching, but the sexual heat begins to change, and... we start... to... merge.

It's like sex. It's very, very like the best parts of my time with Emma, but we're not fucking. We're lying there, and she's inside my world, and I'm inside of hers, and we're entangled, but there's no... sex. I feel good. She starts to hum softly, a low constant tone, sometimes higher, sometimes lower. Sometimes Peter and Annie will join in on a note, and I realize that this is a practice they all know, something I haven't seen before. This is ritual to help me.

I'm slightly disappointed, in that... girl. I'm also chastened, in that I'm thinking with my dick but, what did they expect. Nobody seems to mind.

Laurie gets up, and moves to my other side. She lies with her head on my heart, ear to the beat, and taps her hand on the ground at each beat. My heart slows down in response. I feel love from her, a tenderness and a care, and my breath changes, deeper, fuller and easier.

Eventually, she gets up and puts on a bathrobe. Peter and Annie excuse themselves. "See you in the morning, Peter!" and Annie says "good night, kids!"

They walk out arm in arm, a pair of happy con men.

Laurie and I sit on the bed, close. The sexual heat is completely exhausted, there's nothing there but an enormous tender intimacy. After a while, as the night closes in and there's a slight chill, she gets up, changes into soft white pajamas, and gets into bed. I find my underwear and join her, and we curl up under the blankets, and I sleep like... Life is worth living.

I wake up in the morning, and she's gone. There are a couple of scones on a tray and a glass of milk beside the bed. I sit up and try to reach the milk, and I'm almost too weak. I don't feel ill, I'm just... weak, tired. Hungry! I get the tray, eat the cakes and drink the milk, and curl back up under the covers. What the hell is going on.

About half an hour Annie comes round. She knocks on the door, and a second later opens it pokes her head in. "How are you, young man?"

"So tired!"

"My girl take good care of you?" she says, without the slightest trace of sexual innuendo.

"Yes, I'm... better in the heart?" I say, a bit quizzically. "Sure, good, good. Ok, lunch soon, come and get it" and she's gone.

After a few minutes, I feel a lot better, and get out of bed. I'm wobbly, but I'm hale. Annie's outside at a table on the deck of the other cabin, and I sit down opposite her. She serves me a very substantial hamburger ("never touch the stuff myself!") and more milk, then honey and yoghurt. She herself has a salad and a sandwich.

"Don't worry, kid, we got you covered."

I shrug, then say "I don't understand anything, do I?"

"Well, you've figured out the problem, and you've got through a very nasty hurdle, but we'll see how you're doing when you're the old man's age, eh?" and a hearty laugh.

It's good to not feel in control right now. It's good to be taken care of. This is all very right.

Peter and Laurie come in half an hour later, have a sandwich, and then walk into the woods together. Business, business.

In the evening, they leave Laurie and I alone again, and again there isn't enough sexual tension to light a match, but she's very close to me the whole evening, as we sit and talk, and we sleep in the same bed, curled up.

I wake up in the morning, and this time she's still fast asleep, and I don't wake her.

I get dressed and go and find Peter. He says "well, son, just about ready to get out of here?"

"Well, the company's very nice!"

"Isn't she great?" Peter looks at me in a very direct way. "Behaved yourself, son?" "Yes, yes... but..."

"I'll explain later."

Laurie's up and about half an hour later, and Peter hustles us out and on to the road. He and Annie have a fully five-minute hug, then part and don't look back. Laurie holds both of my hands on her heart, and says "you're beautiful, Harry, and I'm so glad to have met Peter's nephew. Take care!" and, just like that, they're gone.

Peter drives the van down the dirt track in manual. Half way down, I say "Peter, what was all that?"

He slows down for a moment, pauses to think and says "They're healers, Harry" as if it was a complete explanation.

There is only silence.

I no longer feel dead, and I'm no longer confused about what comes next, only what has gone before. I want to go to college.

---

I am no longer a Senior Cadet. I am a college student. Cognitive Anthropology.

I realize I'm going to go utterly insane exposed to too many former Senior Cadets, so I wind up at a liberal arts college with a heavy bias towards people returning to education in mid-life. It's in Ottawa, Canada. Four years of Eh? and nice, nice people. I live in an apartment with two former nuns in their 50s which is a constant source of amusement. They're a couple, broken out and headed for the real world. We have a lot in common—we all like girls. It's very... collegial, an easy companionship between people who are so different on the outside, but share the same basic cultural cast-out of the system, out of the game, outside.

Laurie and I meet a couple of times a year. We never have sex, although we do kiss once or twice. Peter and Annie explain the details on a later trip out there, the concepts of tantra, the non-western renderings of Spear and Cup, the different conceptions of male and female roles. It gets a lot clearer. I start to understand sexual energy as a choice. I have girlfriends. They also understand sexual energy as a choice. Life is, hey, good.

Cognitive anthropology is riveting, filling in the gaps, the background. And the people are still humans, still free to think, while on the US side, the New Senior Cadet Induction cohort, 11 years of them by now, start to march into business and government, solid, patriotic citizens, not overly-given to religion, not overly-given to dishonesty, start to march into history.

They are very, very good for America. They are friendly, they are cooperative, they are upstanding, honest, and they have no souls. We've brainwashed our way to a better world.

I hide in Canada, and I wait, and that's four years of my life.

I won't tell you about the time I walk in on the nuns. It wasn't good.

Half way through the last year, Laurie comes to visit me in Canada, and we have sex. Magical, ritual sex. Sex that peels the stars out of the sky, and puts them in her eyes. Then she tells me that she's going to marry somebody else later in the year, and wanted me one time before she fell into monogamous partnership.

I'm, curiously, not only not heartbroken, I'm grateful to her, pleased we got to have the experience, and happy to see her happy. It's one of the best things to ever happen to me.

I graduate.

When I look back on my life later, I wish I'd been in a world when every year of my life had so little to report, had so little strife, so little anger, so little grief, and so little had happened.

Then I go home, after four years at the edge of the game, and I'm back in the thick of it.

## book three

Dad suggests Africa.

23 years old. Senior Cadet (liberated), Cognitive Anthropology, which is exactly the right field for understanding what's happening to African societies from the quad-pressures:

- climate change;
- technology;
- Colonial powers, including China, America and Europe 2.0; and
- demographic collapse.

There's a huge population cliff approaching, as the huge AIDS-vaccine generation approaches old age, completely distorting their societies. It's a good topic.

Dad has a better idea.

"There's a group that's been working with State, a charity" I wince "that's got a very successful methodology for rebuilding society in refugee camps, working with the traditional wisdom people of those cultures. I think you'd like them. A lot."

There's a soft click as he says it, and I know I'm back in gear. This is What's Next.

Sure enough, it all makes sense. They have an opening for a field guy, there's no problem with funding, they're funded by the State Department, a different division from Dad's people. It all makes perfect sense, the job could have been made for me.

I suspect the old men have been at it again, but Dad denies everything. "I heard about it, I didn't twist any arms."

He's aged a bit in the last four years. Hair's starting to go white. Mom's just the same. The girls are in their final and next-to year of high school, and—thank god—neither one is going cadet. It wasn't very likely, but it was possible. They're free, it's their right.

Peter's in a rut, he's not aged a day, he's in the damn van, he's failed to either settle down or make any progress sorting his life out. But he's... happy. I don't know why, one of those "blows against the empire" things with me seems too small, too subtle to really matter in the grand scheme of things. Even if what I've learned about our brainwashing turns out to be transferrable to others, which I can doubt, wouldn't they be better getting out of the country and waiting for it all to pass?

And, really, are the Senior Cadets so bad? Are they really? I'm sure we're crushing a lot of delicate artistic souls under the boot here, but I'm also becoming acutely aware of how good the Senior Cadet programme has been for our country. The Marching Morons are straight dealing, civic minded citizens, and they're cleaning house. The older generation of crooks, thieves and liars better watch out, these guys might just clean house when they reach 45.

Not that I voice that to Dad and Peter, and not that I'd change a thing about the course they took with me. I know there's a price to pay, and I wouldn't be the man I am now if I'd paid it.

Man. No doubt about it now. If there's a line, I've crossed it on all counts. Only thing I haven't done is had kids.

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Kinshasa, Spring 2066.

Kinshasa's been through boom and bust so often that I think it's soul must have metal fatigue.

The company office is on the 47th floor of the sole real skyscraper, a tubular steel construction of 120 floors which is visible half-way across the

country when it's lit by lasers from the roof. The top two floors are obscene parodies of a pagoda, with Chinese formal gardens within. There's an atrium, and it's infested with singing crickets and Chinese fast food vendors. You can even buy little busts of Chairman Mao from Nigerian vendors with carts up there who have no idea how offensive what they're selling is; they only know that people smile and buy them. They can't believe they're on sale.

Ah, Africa, Africa.

The Chinese did a lot of work when they were running the place, then left when they had... trouble at home is how they refer to it here. A lovely euphemism. But they did get this building up, and their influence is everywhere. It's the foundation for a thick layer of European influence, from a series of commercial adventures where the solar revolution went through, and then the Europeans had sold everything they could, then when they, too, had trouble at home, back it all went. The Russians never got to their holdings in Africa, mind you, so quite a few European ex-pats still litter the place.

Then there's us, the Americans, New Manifest Destiny mandate edition. There's a thick layer of US military, mostly hardware, smeared over the entire damn continent, just as there is everywhere which is off the grid, and if it's not the US it's the Chinese or the Europeans or the Russians or the Japanese or somebody. There's not a cubic meter of earth which isn't checked at least once a year by a remote system looking for labs.

If it's not on camera, all the time, by default, streaming, somebody will make sure it's examined. Once in a while, maybe every five years, there's a mobile lab on a ship or even in a truck

discovered, usually selling designer embryos or growing organs for people too stupid to die, but we've all agreed—the Global Consensus—that biotechnology and nanotechnology happen in orbit, and nowhere else. There are a few exceptions, traditional crop varieties which were engineered before the Second Holocaust, and that's it. You can't buy precursors, you can't assemble a single base pair, you can't sneeze a replicator without getting carpet bombed by Global Peace & Love, Inc. Sometimes Dad does the raids, about once in five years, if he's really lucky. State Department often have the only hard assets out here, we're a long way from the war zones.

We've had 35 years to seal this planet up tighter than a drum, and it's exposed damn near every other dirty, filthy evil thing we're doing. Transparency is Hell.

I'm sitting by my desk, staring out of the window at the smog. They're burning coal to run the city during rainy season. They don't have enough panel capacity—well, enough batteries, really—to keep the city full steam ahead during the low sun periods, and they supplement with coal. It's insane, it's very nearly unique globally, and once in a while they try to sell it as a tourist attraction. Weather control is good enough they can chance throwing a few megatons of carbon a year without unleashing the climate again. Good old Kinshasa. African innovation at its finest.

My 2:30 is late. This is expected. It's not a date, so she's not going to be on time. "Julie" Mbele, project manager for KBR down here, trying to help us get access to Orientale Province, site of the biggest refugee city in the world, Kisan-gani's shadow city, Harappa. Four and a half million people scattered over a huge area, tied

together with bamboo-and-solar public trans, making most of their own equipment. But it's off-limits for political reasons. I want in.

Mbele arrives. She's a couple of years older than me, but a straight-up-the-ladder corporate school type, she's been with KBR since she was four years old. First as a ward of the company, then as a paying student, and now as an executive. She floats into my office in a cloud of perfume, nails like red claws, and an 80s retro power suit. Congolese fashion is brutal. I can't really stand her, but she's holding the keys.

"Vine, dear Harry Vine, how are you sugah? Kiss Kiss" god save me, I mug for her. "Julie, Julie, you're keeping me lade, mistress!"

She loves it.

"Right, now, Harry, down to business, I don't have very much time. Explain to me what you want to do in our camp? Tell me simply, in my terms!"

Three degrees, two from Harvard Network, and half way through a PhD. She loves her games.

"Well, simply, we want to find the oldest people in Harappa, and we want to find out what they remember about life before the camp, their old countries, their language, and their way of life. It's straightforward cultural anthropological research. A lot of talking into recorders and smart databases."

"Yaaahs, yaaahs, I see, I see, I see, yaaahs. But why, what good is a bunch of old people talking to you on a recorder? Who is that going to help, and who's paying you to do it?"

The tricky part. "Well, if our research pays off, we might be able to half your security bill in the camps, and every one like it."

"How?" at least 50% of the act is gone.

"Why do people commit violence?"

Oops, wrong move. “People are born with Original Sin, Harry, their devils make them do it!” Wrong, wrong, wrong move. No save possible. Well, maybe...

“Well, where those devils are in their heads, we can sometimes find angels in their traditional stories and culture to fight back, and we can bring those angels back into common parlance, change the language to re-include them in the culture and common speech. Proverbs, say.”

“AH! So you’re mining for positive stories, and then retelling them inside of the host cultures? This is most ingenious, most ingenious, I shall do everything possible to make this happen. Kiss kiss, Vine!”

And, with that, she’s gone, and we’re in. I call Peter briefly.

“At first blush, we’re set!”

Always the joint, the cloud of smoke. He’s spending more and more time at Mom & Dad’s now, sometimes helping with the girls (who are, very slightly, falling under Laurie’s influence, but with no Induction for them, there’s no real incentive)

“Harry, that’s amazing, well done! You’re going to have a whale of a time, a whale of a time. Remember what I told you!”

“Yep. Be careful, This Is Africa. I will, I will.”

Will I hell. This Is Adventure.

I’m going to the camp as soon as I can, and I’m going to get my teeth into the first really tangible, worthwhile thing I’ve ever done. I’m going to make a difference. Men plan, and gods laugh.

It takes about six months to get everything ready, which was to be expected. My employers know how long it really takes to get buy in, and it’s more than a 5 minute meeting with a junior executive. But, by the by, the wheels turn, and the team finally gets a go and all the logistical and governmental support we’re going to need. Four of us from the company go inland. John McGregor, a linguist and ethnologist who’s in his early fifties, born in South Africa, the team’s wise man. Sally Yevish, a former State Department security expert. Thomas More (“not Moore”) runs the cameras and analysis software. In addition, we have a school bus load of school teachers, doctors, nurses, social workers and all the rest, seconded to the project or hired. They’re all fluent in English at least two of the region’s nearly endless languages. We still don’t have fully fluent translation software for most of Africa’s minor languages, so you need local translators to guide the machines, to essentially answer context questions that a large corpus translator simply guesses from ten million prior examples. This is real, wet research.

The trip to the refugee city is easy enough—we charter a plane, board in a gleaming concrete airport with wildlife on the runway, and will set down two hours later on a landing strip of woven metal nailed down to a cleared strip on the grassland.

We’re maybe 5 or 10 kilometers from the river, slowly circling over an almost continuous conurbation of small hexagonal metallic huts which stretches to the river, and for some distance in either direction on this bank. The sea of identical metal roofs is dotted around with larger domes and a few container-stack high rise buildings, three or four units high. The impres-

sion from the air is that somebody crinkled tinfoil on the plain, it’s so regular and uniform. There’s a spiderweb of towers with transit cables hanging over the city, crazy-paving the landscape in no discernible design. It’s so decentralized you can’t point to a focal point of any kind from the air.

That’s home for four and a half million refugees who’ve been there for 25 years, since the last time Africa exploded into an orgy of bloodletting, triggered (I suppose) by the aftermath of the Second Holocaust on paper, but really, as with everything in Africa, it’s colonialism, resource shortages and education in the end.

Harappa was supposed to be a better approach to refugees. The idea was to make them economically productive: build a city, set them up on their own feet, no more refugees. A solution to the refugee problem.

The area was “underdeveloped” according to various global development indexes, and the Harappa project started with financials showing that with moderate investment from the international community, the “reunitees” as they were termed would be on-average more economically productive than the average resident of this area of Congo.

An Indian team took Fulleresque mass-produced housing, set up a containerized factory in Kisangani, and simply manufactured a hexayurt city as refugees arrived. Once there was enough skilled labour, they picked the factory up, drove it to Harappa, and hired locals for most of the labour. They built their own houses and infrastructure as they arrived, the city scaling to the labour force, scaling to the city. Very organic, very industrial. Very India. They use the Indian

transport model too—a few roads for freight, and a mass of self-driving rickshaws suspended just above the houses running on a cable network.

Our team hauls its own bags out of the hold, and on to the van that meet us at the airport. It's remarkably busy, two more planes land after ours in quick succession, small electric numbers running people back and forth to other cities. I see business people in suits who you'd never know were former refugees fly out, and think "well, if they choose to live here, how bad can it really be?"

I'm about to find out.

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The original Harappa was a tiny fortress, 20000 people in ancient India. For it's time, the dawn of civilization, it was huge. Our Harappa is not a fortress. It's a maze. The van drives into the city with our luggage, equipment and two of our staff. The rest of us are going to take "skytrans" into the city, and immediately the lack of any kind of real center becomes clear. We queue for a few minutes on a gantry, fifteen feet up metal stairs, on a narrow deck. We have a destination station number that we punch into a console, and set passengers to 25. Soon enough robo-rickshaws arrive, rickety plastic covered gondolas suspended from a single rail. The ride is surprisingly smooth, as we set off down the cable run to the edge of the settlement.

Once we hit town the suspended rickshaws scatter, the cars snaking across the low tower network, following a series of seemingly random paths, skimming over an enormous uniformity of silver roofs with green-painted doors, some

decorated with colorful sculptures, presumably so people can recognize their own houses. We're at-most 20 feet above the ground, and could unlace the plastic roof to see the ground more clearly if we wished. I consider it, but we're only going to be up here a few minutes I think. There are narrow bicycle paths below us, mostly become playgrounds at this time of day, just after school is out.

The uniformity of the housing does not extend to dress - the people bicycling or occasionally riding scooters below us wear literally everything. Far more diverse than Kinshasa, much brighter, wilder colors. They're like collages. I feel they might be compensating for the crushing awfulness of the architecture, but it's more complicated than that, as I find out later.

The kids below us look happy and healthy enough. Bellies are occasionally plump, but not from malnutrition I don't think (not that I'd know it if I saw it, probably.) Out of the rickshaw window I watch them in the streets, and it's more smiles than fists. Ball games look friendly rather than fiercely competitive, and a plane-load of professionals coming into town isn't an object of wonder, if they can see us in here.

On first blush, I have to say, this seems to be working for people.

The rickshaw keeps changing direction, taking some kind of a random walk over the network of elevated rails, which are on a (god help us) triangular grid. It's supposed to be more efficient. It bounces a little at every transition.

I can clearly imagine Dr. Gupta's face (the original architect of Harappa) head wagging in the celebration of the awfulness of his construction. I've watched the tapes of his original pitch for this place. His original vision of a scale-free

centreless city violates everything sane men believe about architecture and urbanism. He was frail, even before the outset. He must have been 70 when they started, pushing a hundred now. He was fascinated by our research when I called him a month ago, and remembered Peter from Peter's visit to India thirty years ago. He asked me about how my meditation practice is going, and mentions that he taught my father. He thinks I'm Peter's son! All I can say about the old duffer is that he was well-intentioned when they started this, but it's probably just as well he's too old to travel here. I'm not sure he'd approve of how it's all turned out. I suspect he's just staying alive to see what happens.

We've arrived. The rickshaws pull in, one after the other, to another metal gantry. We disembark, waiting a few minutes for the last of the rickshaws to arrive at the station, and walk a couple of hundred meters to our compound, following our devices very carefully in case we get lost in the maze. People's huts open directly on to the path we're walking down, dusty in the sun, and they stare at us as we walk past, not with curiosity, but with a sort of reserved watchfulness. Not unfriendly, but not welcoming.

At the gate, our biometrics are already loaded. We pass through a 4 meter high fence, no razor wire on top mind you, into our home for the next six months.

The compound has a four-story container stack for offices, a secure container for telecommunications, and two dozen or so of the bloody silver huts for the staff. They're still setting up the huts when we arrive, a truck with a crane takes folded units off its back, reaches right over the fence, and pops them out in the air and positions them on hexagonal bases screwed into the

mud with big silver flanges on each point, leveled roughly by eye by a team with manual crank handles for the ground screws. Simple, modular, mass-produced. It's a Fordist (Henry, not Junior) revolution in housing, with a predictable result: insanity.

It takes the van with the bags another half hour to turn up. The roads, few as they are, are exactly as congested as roads are anywhere else in the world. The price of road transit is what the market will bear.

Our "concierge" leads us on a brief tour of the compound. He's about my age, maybe a little older, almost jet black. Slacks, safari jacket, big shades, and, god help me no, a pith helmet with a little fan running from a solar panel. The heat is not oppressive after Kinshasa (the metal roofs, perhaps, reflecting off the sun?) so it's almost pure affectation.

"Here's your water supply, you see we don't bury the pipes deeply, when we need a new supply we just pull the soft pipe up and screw in some more taps. This box over here is the filter, you can check the health of the system on the side, there are lights, so if the water in the pipe is for some reason contaminated, your filter will fix it. We do everything that way here: point of use utilities."

"Each one of your homes" (he avoids the words hut, yurt, hexayurt and similar, they are "homes") "has a solar collector on the outside, and a building-integrated solar cooker. It stores heat for several days, so you should always be able to cook, even at night."

We walk over with him to the toilet block.

"Solar pasteurizing solar toilets. You use as normal, but there is no flush, there is a replaceable paper cone. The toilet drops its contents

into a sealed bay, which is heated by the sun and pathogen-free after only one day. Once every few days, a person will call and collect the waste, and credit you with the value of the embodied energy."

They run a city half the size of New York on this basis. Almost everything is one low story because if you block their access to the sun too much, the toilets don't work and the food is cold.

I begin to understand Gupta's maxim: "The city is a human jungle. All life is present there." They compete for sunlight, and his design is architectural socialism.

I want to punch the bastard. This is madness.

Our guide finishes by explaining the hat. "We take much of our culture from the original users of this building system, an American town called Black Rock City, which prototyped much of our lifestyle technology. We imitate their dress code and manners, and once every year, throw a week-long party in their honor. Welcome home."

He leaves us to unpack. Somebody will be by to cook us and the local ground team dinner later on.

Twenty minutes later, I sit leaning against the flat, hexagonal wall of my low hut, examining the sparse interior as I try to take it all in. The furniture is made from identical square section stock, joined by bolts. The fixing points run all the way down every piece, so you could reassemble the bed into a table, the bookshelf into a chair, or merge the bookshelf, bed, bedside table, chair and desk into... pretty much whatever you wanted, if you got the design right. It's all rock-solid and totally simple. The little logo on each piece says "Gridbeam."

It's then I realize that these people really are refugees, and this really is a refugee camp. Suddenly Gupta doesn't look so crazy after all. I imagine a sea of tents, lined up in identical north-south aligned rectangular rows, metal camp beds, central wells, sewage and food trucks coming by once every few days, and endless lines, queuing in the sun for every little thing, people sitting around waiting for help. They did this on about the same budget, and the people all around me, stretching to the very horizon, built it with their own bare hands. It's a refugee camp, none of these people have history or roots here.

We dine at a long, low trestle table set up outside. It's protected from the rain by a high canopy, and from bugs by the usual anti-mosquito lasers, not that anything will have made it this far inland from the river. The camp's dotted with defenses.

At dinner, we begin to map the social structure of the camp-city. The local political reps (not... mayor, they're doing something more complicated, surprise) explain "reassortment" - people with similar values simply exchange houses, until pretty much everybody likes their neighbors. Everybody has a remote, a bank account, a population profile. Systems match buyers and sellers of not just goods but services, so it's hard to remain idle if you have even one skill, like braiding hair, never mind the people who were lawyers, doctors, teachers in their previous lives, and are again. The bigger domes we see dotted around are not private spaces, but community buildings, built using the same panels as the ordinary housing stock - a single design for everything here. The mathematics is taught inside of the domes constructed using it: convex

tiling, rather than Fuller's spherical trigonometry. They still teach using the Harriss Manuals.

On paper, it all works. But these are the political elites, those elected to make decisions on behalf of the collective. They're the winners. Our job is to find the losers, to find the unhappiest, most violence-prone people in the camp, and try to improve their lot from their own (or, just possibly, their neighbors) cultural resources.

The locals like our plans.

"Ah, Dr. Vine" (I don't correct him, he's in mid-flow) "you're exploring our cultural dislocation, the underbelly of our cosmopolitan lifestyles." He's not entirely joking—they're from all over Africa, some from families which were in camps in Kenya for nearly a hundred years before moving here.

"Yes, yes, there is a lot of dislocation, such a radical change from our old lives. But anybody you see here from around your own age down was born here, they've always lived in an environment of substantial material equality with their neighbors, they've always had reassortment as an option—a Muslim neighborhood observes limited Sharia law, say—and they've always had collective purchasing of food from our agricultural neighbors to obtain best prices. This is to say that they've never been "poor" in the sense you would expect, if you see what I am saying, and that helps minimize the other kinds of tensions you would expect in our formerly dislocated, newly-rooted population."

It sounds too good to be true, and we find out that it is.

The work goes well for four or five months. I settle in to the routine of Harappa. You spend a fair amount of time adapting to the infrastructure—somebody has to let the toilet guy in, somebody has to check the water filter is correctly functioning or it simply stops delivering water until checked—and the main urban network is bizarre. It's a 4.8 million node mesh with a replicated copy of almost every human-readable data resource on the planet. Most of the time they don't touch the real grid. It's 2066, but in many ways they're living in a tribal past.

I've gotten side-tracked by the study of war veterans, the actual fighters. They're by far the worst-off general demographic profile here, and a lot of it seems to be tied up with the cult of Guembe, a failed African warlord from a generation back.

Here's a typical interview.

Sot Bjekrall, former South African.

"None of this means anything, man, none of it, nothing. What's real is out there on the plains, on the veldt, it's the lion and the gazelle, that's us, we're the lions, and the civvies, you see, they're gazelles. And here, in this shithole, no proper toilets or anything, here we can't hunt. Everything is tagged. Everything is filed. You have a fistfight with some guy, they send you a bill for his medical expenses the next morning. You don't pay, they won't let you eat, nobody will sell you food. It's a prison, man, a prison camp. No freedom, no justice. I am in hell."

There's a lot of these guys. A century of war, particularly civil war, multiple generations of veterans. I'm fascinated by it.

I ask Dad.

"Guembe? Yeah, yeah, I fought him. That was a big part of my war. Nasty, nasty people, they used to skin their victims and eat them alive, in proper order so they'd still be screaming through dinner as music. One of the few times I never regretted killing was dealing with their troops."

I'm shocked. This is a side of the old man I've never seen.

"Where possible we'd use artillery on their camps so we wouldn't have to see what they'd been up to when it was time for cleanup. It was that bad."

I think about the enormous war on women, the bloody sexual mutilation which was normal in the Congo in war until pretty recently, and think about the children of such unions. What dark god would they worship?

Guembe, the undead lord of the night, the spookfather, the author of nightmares all through Harappa. I'd found my research topic. We came to seek positive myths, but I'm finding the negative myths, the demons of the old mind, are actually what's doing the damage here. I want to understand it. Guembe's long-dead, a confirmed kill decades ago, but the zombie form, the mythic version, lives on.

Perhaps we could figure out its weakness, and kill it too?

---

“Harry, take a look at this!”

John and I are sitting at a terminal, inspecting what the semantic systems are recovering from the network. It’s... interesting. To say the least.

We’re watching a series of interviewees, telling their versions of the Guembe cult story, forty or fifty of them in thumbnail-sized silent windows. Tiny talking heads. John’s correlated it to the comms grids, and it turns out that they’re a widely-scattered social network. They talk to each-other far, far more than they talk to other people, and John’s sure from the comm patterns that if we look in more detail, we’ll discover they’re socializing face-to-face too. It seems that the Cult of Guembe is more than a story, it’s actually a religion. They’re talking, meeting and probably even worshipping together. I suppress a shudder.

I don’t want to ask the question, but based on this, I must.

“John, do many people go missing in Harappa?”

John startles. “Sally asked me just the same thing earlier on today! And, yes, the answer is yes. 200 to 300 a year just drop off the sensor grids, they cease to exist. It’s assumed to be people leaving the city, moving to other towns without closing out accounts here, but...”

We’ve reached the same conclusion. Guembe lives.

I suppose, at the time, I’ve fallen into my own colonialist mythology. I think this is an African problem that I can solve.

It’s not. It’s a human problem, and I am just as human as they are.

I make my first mistake. I don’t tell Dad. I know he’s going to regale me with war stories, and I don’t want any more of a reminder of what he spent his life on when he was my age. I want to think of the man who spent his days watching food stockpiles, not the one who stomped peasant armies into the mud with a five ton boot for the corps.

I just don’t want to know what he did in those days.

My second mistake. I get curious.

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I’m talking to the Camp Communications Chief. He’s a mousey little fellow, for a telecommunications exec running comms-and-computing for a major city.

“I suppose we could do what you ask, Dr. Vine, but it seems like an extraordinary allegation. You really are suggesting that former soldiers have formed a... cannibal cult... here in the world’s most enlightened refugee camp? I feel that I would have to have some... tangible evidence... before honoring such a request. After all, our citizens deserve some privacy, do they not? And your group already has extremely extensive databases and access to our communications records. I’m afraid I cannot do what you ask, authorizing completely network access to these people’s lives, without some evidence of wrongdoing.”

I’ve overplayed my hand. But I’m on my own here. Sally Yevish thinks this is strictly about our security, and as long as none of us are going to get cooked, eaten and killed (in that order) she isn’t going to interfere in this.

John won’t touch it with a bargepole. “Positive myths for 4 million people, or a collection of ghost stories from vets with PTSD, Harry. This is not why we’re here. Let the dead bury the dead, we can’t help these people.”

He means the veterans. He’s probably right. But we could be protecting their victims. Thomas More believes me, though, and is supportive.

“I think, Harry, the request is perfectly reasonable. They want evidence before they’ll open the kimono on this, and odds-are most of those 300 people are simply leaving down on their debts. I think we do need evidence to take this further. So let’s get some? Deal?”

Eminently rational, Thomas, eminently rational. How?

---

And that’s how I come to join the Cult of Guembe. I alter my history - I’m now a combat veteran from a tour in the service, instead of university, fighting up north in Nigeria as part of a Peace Keeper detail. I reactivate the Puppet, and put on the smooth, bland face of a murderer. I am... Sot Bjekrall at 25, I am... a man with nothing. I am not me, I’m him. I fold the origami in my mind, and put it between who I am and what I’m about to do. It’s disturbingly easy to slip out again, peeking at the world from behind my Puppet. This is easy.

Sot Bjekrall is my weak link, my way in. He’s one of the few White Guembe followers—Guembe himself was black, and probably a Nigerian although nobody but the CIA knows for sure. Sot wants to believe that the rich white

boy with the aid project is secretly just like him, the washed up old racist.

“They are not laik us, Harry, they are not the same.” This I am expecting.

“They are better, the black ones. Tallar, stronger, and they are so very smart, not stupid book learning like our people, but real intelligence, about what is good in life. When I die, I want to be born black, son of the land, six foot six tall in my stocking feet, to live the good life, as god indentended. We are mutants, Harry, defective little bunnies that burn in the sun. Do you think he will let me be black next time Harry, if I atone for my sins? Do you?”

He’s almost bellowing at me, and he’s very, very upset. It’s been suspiciously easy to get him to open up: one story about a murder I’d committed during my field time in Nigeria, executing a prisoner of war, and most of two bottles of whiskey. He can drink.

“I will tell you a secret, my son. Guembe lives! You can meet him, by the light of the next dark moon.”

I look blank.

“Thursday. Come to my hut at dusk, and I’ll show you how it really works around here. Bring another one of those mate” he says, gesturing at the whiskey.

Ok then.

Thomas is more worried than delighted, and spoils my mood. “Harry, if you’re right, these guys are really dangerous!”

“Yes, but they’re not going to cook, eat and kill a western aid worker with State connections, that’s crazy. I’m going to go, look around, see some sights” I gesture to the tiny cameras that Thomas has decked me out with “and we’re go-

ing to get comms access and roll these guys right up. It’s going to be fine, at least for us.”

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I come to Sot’s hut at dusk on Thursday, a little early. I’m carrying a bottle of whisky, a sedative dart gun, and the biggest knife I could find, sheath taped against my forearm hidden under the jacket.

Sot’s home, with two friends. They’re both younger than him, Jake and Izzy. They’re maybe 30, but it’s hard to tell, because of the hollowed out faces, the sunken eyes. They look like... corpses. Both have ritual scars on their faces and arms, deep scores indicating sacrifices before battles. These guys are the real deal.

“Harry, give my friends a drink here mate” and I get the bottle. The dart gun seems like a good idea. Sally Yevish is monitoring the feed, she’s thirty meters away and on this if anything goes wrong, but this could move fast. Sot’s sizing me up again, deciding.

“Harry, are you really serious about this? You know what Guembe is for, what he’s like? He was a demon in his time on earth, and he is a demon still, but he is our way home mate. Do you really want to know how this all goes son, or are you a fookin’ tourist in hell like the rest of you fellows?”

Now or never.

“I shot a man in the face, Sot, and I damn near came in my pants. You’re the first man I’ve ever met that knows what it’s like to be a killer confined in a zoo. What do you have for me?”

“Finish your drinks, boys, let’s go. Harry, excuse the security, but you know...”

He indicates that I should stand, and Izzy pro-

duces a rough set of manacles, plastic ties with which they bind my hands behind my back. They don’t search me. “Just a precaution, mate.”

Yevish watches, cautiously. This is escalating. However, she’s carrying a real gun, light body armor under her civvies, and has a couple of gas grenades. There are hard limits on how wrong this can go.

They’re on the move.

Harry, Sot, Izzy and Jake step out into the darkness. The houses have tiny lights on their perimeters which light up as you walk past, but the lights point down. You can see your feet, but not a man’s bound hands. The walkways are mostly empty right now anyway, people are inside eating dinner. Yevish can’t exactly tail them, but she walks up a parallel street, and imagines a short scramble over the low roofs if something goes down. It’s not far, 80 meters, perhaps 100.

They walk about a kilometer, into another hut. The smell is overpowering, shit and fear, it hits Harry at the door. His Puppet smiles for him. “Who you have in here, Sot?”

Sot smiles and says “you, mate” and pushes him inside.

The light comes on, and it’s as Harry feared. There’s a young girl, tied to a chair, with—of all things—a rubber dog toy taped in her mouth as a gag. She’s been badly beaten and looks terrified.

Harry notices the soundproofing on the inside of the hut. And the blood stains on the floor, and a pile of gristly bones in one corner that could be from dog, but are more likely... yep, there’s the skull, from a child. Harry would be sick right now, or shaking in fear, but his Puppet is calm on his behalf.

“Well, now, Sot, we’ve got everything we need for a party here mate. Where’s the whisky.”

Sot pulls out the bottle, and, satisfied that Harry has the Right Stuff, motions to Izzy, who slips off the cuffs. Harry takes a deep swig and thinks “well, we’ve got the evidence now, Yevish is going to be right outside in about two minutes, we can do this.”

He pulls up a chair and sits opposite the girl, staring into her eyes. She senses The Puppet and is very, very afraid.

Izzy comes around behind the girl, takes a length of rope, and winds it slowly around her neck two or three times. Grinning at Harry, he begins to tighten it. The girl’s eyes bug out, and she thrashes against the chair. She begins to go rigid, stiffen, and Harry knows that after that she’ll pass out, then die. He’s not going to sit here and watch that happen, but before he can act, The Puppet steps in. “Eh, mate?”

As the girl’s brain is deprived of oxygen, the blood no longer able to reach it, she shudders and falls forwards. Izzy unwinds the rope, and holds her head up.

“Izzy’s a strangler” says Jake, speaking for the first time. “I’m a cutter.” He gestures with a straight razor he pulls out of his pocket. “I saw them cut my mum, and it’s my thing now.”

Yevish has had all the time she’s getting. Harry trusts she’s on the feed.

He stands up, and walks behind the girl’s chair. He gestures to Jake, and says “may I?” and takes the razor. He opens it, and dangles it by the handle, swinging in front of the girl’s eyes. “Yevish! NOW!”

Harry brandishes the razor like a knife. They’re not going to touch her.

Yevish is standing outside the hut, taking in

the blow by blow. She’s got the pistol pointed at the lock, and what she judges to be a safe angle judging by the room geometry on the feed. Two rounds and the lock is off, she boots the door open.

Jake’s very fast, in motion as soon as Harry yells. He grabs the chair Harry was sitting on as soon, and levels it into Yevish as she enters. Sot’s not so fast, and Harry ducks the bottle of whisky, and drags the girl backwards out of the fray as Izzy... shit... smashes the razor out of Harry’s hand with a club. Harry retreats fast. Izzy ignores the girl and follows.

By the door, Yevish’s gun swings on it’s leash as she struggles with Jake. Sot’s doubling up on Yevish, trying to grab the gun as Jake grapples with Yevish, trying to keep her arms under control while Sot gets to the piece.

Unbidden, everything that Peter’s taught Harry is right at his fingers, and he peels the knife off his forearm. Izzy backs up at a foot of steel, but orients and in a moment Izzy’s pushing him back with the stick, swiping for the knife blade, going for another disarm. Harry keeps his distance. He’s lost the razor, and he’s damn well not going to lose the knife.

Thinking, Harry decides the logical thing is to sort out the gun. He keeps his distance from Izzy and backs away towards Jake. Without a thought, by instinct, as soon as he’s in striking distance he sinks nearly a foot of steel into Jake’s back as he’s grappling with Yevish, landing the knife just above the kidneys and sharply up. Jake screams, and is dead before he falls. Harry shoulder-barges his corpse to one side to get at Sot, who he then slices across the abdomen, not deep enough to penetrate the fat layer. Sot falls backwards and sits against the

wall, horrified at the sight of his own blood, trying to hold the wound closed.

Yevish immediately puts the gun on Izzy. He freezes. Jake bleeds, Sot tries to hold his stomach together, and Harry stands there, panting, with the red blade in his hand.

“Jesus fucking Christ, Harry, what the fuck?”

Yevish is shaking.

“You’ve killed him!”

Coming from a woman waving a gun, Harry’s surprised at her shock.

It’s then he realizes that he’s perfectly calm.

He’s standing there having killed one man and perhaps mortally wounded another, knife red in his hand, perfectly calm.

By comparison, Yevish is freaking out.

Harry walks over to the girl, and cuts her free with the bloody knife. “What do we do with these two, Yevish?”

Harry realizes that, actually, he’s in trance. It’s not the blood, it might be the killing, but it feels more like history, like something coming. He’s rising to the occasion.

Yevish thinks. “Dart him” - indicating Izzy. Harry complies, pulling out the tiny plastic pistol. He fires, barely audible, and the dart barely a spec. Izzy slumps to the ground in two seconds. Harry is more impressed with the dart pistol than he expected, so he keeps it out and puts the knife back in its sheath on his left forearm, handle down.

“Yevish, we have the entire thing on tape, it’s self defense.” Is that what’s freaking her out? Murder?

Yevish says “Yes, I know, you did what you had to, it’s just... I’ve never seen anybody killed that way before, hand to hand. He was staring

straight in my face when he died. Jesus, it's fucking barbaric." She toes the body in disgust.

While they're distracted, the girl tries to run for the door. Harry darts her too.

Yevish drags her back inside the hut. "Who the hell do we even call about this, Harry? Local security? State? The embassy?"

Sot is in little of danger of bleeding out. Deep as it is, it's a flesh wound. Harry is not sure what to do. He turns towards the downed man "Sot, get your phone out. Call an ambulance, mate. We're going to call security, and leave, but you shouldn't die here."

Behind Harry, there is an enormous bang, and Yevish screams in anger. A masked man wearing absurd banana-yellow tights is lying at her feet, apart from the parts of him which are all over the ceiling and door. His hand still grips a machete.

Et tu, Yevish?

"Lads!" yells Sot, hopeful of relief as Yevish roars "GET THE FUCK BACK? WHO'S NEXT?" and attempts to clear them an exit. Harry grabs the girl off the floor, glad she's so scrawny, and follows Yevish outside. There's 20 or 30 of them, in the darkness. Apparently this had been intended as a... communal event, and the party has just arrived. They're backed up, wary of Yevish, but by no means dispersed. Yevish backs away from the crowd very, very slowly, while Harry makes what haste he can, burdened by the comatose girl, trusting her to cover his exit. They're about a kilometer from base. Harry starts screaming "HELP, HELP!" and a few noses poke out of doors. They see him carrying the victim, and, inspired, he says "Guembe men behind me!"

The locals know. They all fucking know. But in this instance, that helps.

Seeing Yevish and Harry with the guns, there's not so much danger. Safety in numbers. Two men come out of the first house, carrying kitchen knives, and seeing them, more follow. Soon there's a gang of fifteen or so people behind Yevish, with the pistol. Harry offloads the girl to a bystander, then goes to back Yevish up. The Guembe men retreat up the path, with terrifying silence, and slink into the night.

"What do we do with the girl, Yevish?"

Yevish decides. "Leave her, Harry, we have to get the hell out of here. We beam the footage to State and the Embassy, and we bug the fuck out. Let the locals take care of her till she comes round."

This makes sense. Harry knows the next time they see the Guembe men they're going to be armed, and that this whole situation has spiraled totally out of control.

Harry's still not shaking. He wonders if his present calm is from Senior Cadet training, or from Peter's work. No way to tell, but he's glad of it. Later when Yevish tells the story, she will say "he was a born killer." Peter's account will mention Mushashi and zen.

Right now it doesn't matter. Harry is functional.

"Come on, run!" says Yevish, and they leave the crime scene, covered in blood and bodies, with curious locals trying to make sense of it all. Who would stand up to the Guembe man? Who would dare kill three or four of them? "Crazy people, that's who!"

The locals, however, are not taking any chances. One of the larger men goes into the hut, and takes away Sot's remote before Sot can

call the ambulance. When they return in the morning, everything is gone, Sot is gone, and the bodies, and the weapons, and the bones, all vanished. All that remains is the blood.

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They run through the camp. It's not far. Yevish takes an indirect route, and calls ahead.

"John, John, fuck fuck fuck, is there anybody outside the compound, is there anybody armed? Yes, we're on the run, multiple opponents, melee weapons, three or four down. Yes, yes, call the Embassy, call State, call the Marines... we're fucked. There's hundreds more of them here, and no reasonable exits. Klicks of slums to get through. Fucked. Harry's brought the hounds of hell down on our heads! We are fucked!"

That's not quite Harry's strategic assessment, but he's not going to argue the toss. He thinks of it more as "let's round up some local help and deal with these bastards" not realizing that, well kid, This Is Africa. The locals know perfectly well there are two or three hundred armed veterans of various hideous bush conflicts, some of them the third generation bastards of war rapes, living cheek by jowl with them. They are well aware that a few girls go missing, or more rarely, boys, as well as anybody who messes these chaps around, and so you keep yourself to yourself. Why a crazy foreigner would start a war with these fine, upstanding members of the community is beyond anyone's understanding.

It's simply shameful.

So the police, the police are not coming. At least, not until morning.

Harry doesn't understand that. Yervish suspects it. John knows.

John calls the Embassy. He has a frank discussion with their duty officer on the likely outcomes of the situation.

"Ok. So you're going to russle up military assistance through formal channels, and we're going to lock ourselves in the storage container and shoot anybody who comes through the door with a power saw, right? And you estimate... 4 to 6 hours for a chopper? Yes, I think there's a good chance we can hold them that long, although I'd prefer '45 minutes for a squad car' given the choice, Dan. Yes... yes... we'll hang tight. God bless."

John makes a quick pass through his living quarters and grabs anything that looks useful. Cameras, batteries, some small drones still in their wrapping, binoculars, some food, first aid kit. He'll place a call home once they're inside the container.

He walks across the compound, and sees a youth, no more than 14 or 15 on lookout, swinging a machete idly, scraping the point across the ground, just outside of the gate.

"We are fucked."

He goes to one of the hexayurts and wakes a teacher who's doing translation work for the project. "Yes?" he says sleepily. John outlines the situation, and the teacher starts waking people up. In about five minutes, the leaders decide they're going to flee into the city, hope to escape detection, and ride it out. They stick out a lot less than the Americans.

Peter and Yervis call. ETA 120 seconds. John takes aim at the boy, moves a couple of feet to the left, and fires. The round sinks into the timber of the gate house, and the kid scarpers.

He goes to the gate house, and opens the gate. The staff flee into the night, grasping a few belongings or a bag here and there, and run for their lives, trying to lose themselves in the residential neighborhoods. It might work, if they aren't followed. They haven't shed blood in this yet, so they may be as safe as anybody in the city is tonight.

Harry Vine and Sally Yevish come running down the street, through the gate, and John electronically locks it behind them. They run over to the container.

"Fuck fuck fuck fuck fuck" is about all that Yervis can say.

Harry Vine's a lot more composed. "What's the plan?"

John outlines the plan, and Harry says "we should be fine, then?"

John breaks the news "Harry, these are old soldiers gone bad. They're very creative, this is their turf, we're outnumbered probably 50 to one, surrounded, and there isn't a single person willing to die for us within 100 kilometers, maybe more like 1000. There's a very good chance we are dead. Do you have any idea what an antique RPG will do to even the secure storage container? We'd be fried in a second. We Are Fucked."

With a sinking feeling, Harry understands why people keep using that phrase. They're too polite to say "You and your idle curiosity, boy, you have killed us all."

We. Are. Fucked. Now Harry understands. We're fucked.

Inside the secure storage unit, there is chaos. It's 20 feet long, 8 feet square in cross-section, the international size for small containers. It's a theft-resistant unit, so thick metal coated with

an abrasive elastomer, and a decent layer of insulation for temperature control. No point having all your computers perfectly safe from theft if they melt in the sun during transport. John's piled a few things in there, food, water, medical, and taken a pile of junk out. Thomas clangs down from the office, dragging a bag full of equipment behind him down the metal stairs.

"Yevish, how many more gas grenades?"

"I've got six total."

"I'm going to drone-mount four of them and park them on the roof office, that should buy us some options. They'll be out of line of sight, element of surprise."

They do have sensors. They have tech. They just don't have heavy weapons, force, positioning or anything else.

"Yervish, Weapons?"

"My pistol, your carbine, four dart guns, pepper spray, stun sticks, two soft armor jackets, and a lion trap. That's it."

"Lion trap?" Even John is curious.

"It's a stun stick in the shape of a net, used for big game. Biologists use them a lot."

That sounds useful. I don't care why she brought it. It could be her idea of a sex toy for all I care right now.

Thomas is strapped to goggles, flying a node around to see what they're up against.

By now, there's another sentry at the gate, and they can hear an engine revving in the distance, menacing.

"We better get inside" says John. They shoot at the sentries again to buy some time, not to kill, it wouldn't help, and once they're gone, bury the lion trap facing the container's entrance, put the gas grenades on drones and park them on the roof of the stacked container tower, and

pile the remaining gear inside, and lock the armored door from the inside. There are windows, and they have huge steel shutters which lock from the inside. As soon as the door is closed, Yervish says “excuse me” and curls up fetal position under a sleeping bag. She closes her eyes and begins to rock backwards and forwards slowly.

“Air?” Harry asks as John turns on the lights.

“43 hours breathable from the canister in the walls—it’s a person-week’s worth in case somebody gets locked in—and low quality but survivable day or so from the rebreather in the gas masks” says John. They think of everything.

“They are designed as holdout units too” says John, comfortably. “They’re perfectly safe from mobs, they’re just not a lot of good against soldiers. You’d be amazed how much of this kind of stuff used to happen, Harry. State got good at this stuff. Gas masks are mainly for outbreaks of airborne disease, they’re good enough you can probably walk out of a plague area.”

“Amazing. Anything else I should know about, John?”

Thomas interrupts them. “That engine? It’s a flatbed truck, empty. They’re going to load us on to it, and move us into the bush, and roast us out of here. We. Are. Fucked.”

And so they are. They watch in horror their respective goggles, except Yervish who is “taking a nap.” The 18 wheeler cab demolishes the fence and rolls parallel to the container. It has a built-in loading crane.

“John, let’s open the windows and shoot them! We’ve got nothing to lose!”

John considers it. “Harry, if they get behind us, they’ll jam the windows open from the top or

bottom, out of our field of fire, and then... think petrol bomb. I don’t think it’s safe.”

Nothing is safe, but Harry concedes the point.

Thomas drops the first gas grenade from a drone, then parks it back on the roof for some possible future application. The fizzing canister lands behind the cab of the truck, and the drifting green cloud of sleeping agent fells half a dozen of the men, including the driver. He’ll be out for six hours. But with four or five dozen men scattered around the site, it’s just a matter of time.

There’s screaming from somebody outside.

Two more grenades later, half an hour has passed, and they’ve located a gas mask somewhere. The lion net nails three of them, out cold, including the guy with the gas mask. They cut the net and retrieve it, and start the engine again. Gas will do nothing, so they save the fourth drone.

Helpless they watch as the crane clangs against the steel of the container. It locks on, and lifts. They wobble into the air, lurching helplessly from side to side as it moves them on to the truck. Then the driver disengages the crane, and several dozen men pile on to the empty space behind the secure container on the truck, and more cram themselves into the cab. Loaded, they set off. Thomas manages to swoop the fourth drone down under the truck as it approaches the gate, it’s precious cargo of a single gas grenade swinging beneath it, and perches it on top of the massive main battery. In an enclosed space, that grenade might buy them half an hour, but out doors... five minutes at most.

You never know. It’s something. And they do have two guns.

Harry decides, all practical decisions taken, it’s time to call his father.

Nothing. He can’t get a signal out. They’re using a jammer.

We. Are. Fucked.

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“Kinshasa... yes I’ll hold. No, this is an emergency. No it cannot wait. No, I need to talk to the duty officer managing assets in Congo yesterday, or... yes, I’ll hold.”

“Yes... four to six hours? Yes, I have the coords. Yes, that’s about what I said, they’re going to wait it out in a secure box, should hold that long easily. No, I don’t see why not. Ok, yes, thank you and good night.”

The troops are on the way.

Three hours later, a chopper touches down at the coordinates listed. They’ve made good time. Sixteen corpsmen disembark, and walk around looking for the secure container. After five minutes, one of them notices the truck tracks, and the message goes back up the line.

“We’re too late.”

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Gregory answers the call. It's 9:30AM his time. He's at home, checking buildings in Sudan. It's tagged diplomatic. At first he thinks it's work.

"Hi... Mr. Vine? I... Yes, from the Embassy, yes, in the city of Kinshasa. I have some bad news. Your son's gone missing in Harappa. Yes. There was an incident last night, some locals forced them into the secure storage unit and removed it from the site. I'm very sorry."

Overdrive.

"I'm State Department, I work in Africa myself. There must be something I can do?"

Pause. Conversation.

"Yes, yes, I would very much like to see the footage, I don't know, yes, I'm next of kin, and yes, I have a clearance. Let me send you a secure confirmation. You'll forward me the footage on receipt? Great."

Call ends. Gregory gets through sending the confirmation, then screams. He hurls the coffee cup against the wall, and little fragments bounce off the desk, on to the floor.

When the footage comes through, it's very obvious what's going on. As soon as Gregory sees the pile of bones in the corner, behind the tied up girl, he knows: Guembe men. Sure enough, the name is in the transcripts, from before the last-known footage. Fuck.

Catastrophe. Send in the marines.

---

Gregory uses his State Department channels to accelerate the call for military aid. Unfortunately, there's a problem.

Colonel John Gibbons says no.

"I'm very sorry about your loss, Gregory, but as you have already been told, your boy is techni-

cally a reservist, he's still in the military. By our rules, and I am technically his commanding officer, and I am absolutely not going to authorize a wild goose chase in Africa to try and recover the body of a man who is very likely already dead, putting more American lives at risk. The rest of his party are not my concern, they are, according to our rules, under his command, and I am not rescuing your son's foolish, irresponsible and above all wasteful operation, I am sorry."

"Why, Mr Vine? Surely you can answer that question for yourself? Because you, your brother, and your whole family tried to sneak that seditious little shit through my operation here at the base, and I always knew that he was a disloyal, scheming, conniving no good refusenik at heart. Let me read you this from my files..."

Gregory considers, for a moment, driving over to the base and killing John Gibbons. But that won't bring his boy back.

He checks the clock. His wife is due home at 4:30pm. He's not going to tell anyone. Not yet. Let it play out. He'll give the family conclusions.

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Gregory looks at a map. Draws a locus three hours and fifteen minutes drive from the last known position, and sets it to continually grow as time passes. Down the major roads, it extends much further. He calls for new satellite imagery, and it starts to repopulate the map with the best available State Department imagery. There are benefits to this job. Unfortunately, there are no real assets in the Congolese area. But in Rwanda, there is a State base, and on that State

base, there are four light blue painted heavy combat robots left over from an earlier age. They are gathering dust, technically kept around as base security, but practically speaking, they ornament a warehouse.

They're about 250 kilometers from the Last Known Coordinates. Greg swipes a State Authorization chitty through a database, and authorizes an incredibly expensive private robologistics company to bring a turbojet helicopter and pick up four... "inspection robots" from the tarmac outside of the warehouse. No humans in the loop: no questions asked. At least not beforehand.

While the robot helicopter is in the air, Greg makes some calls to buddies from the service. 20 minutes later, there's a hot simulator, and six pilots, so they'll absolutely, definitely have the manpower. They start drilling, getting back in the swing of things. Not all of them are flying every day like Greg.

Phil pulls some strings, tries to get action from contacts in the service. Dead end. "I'm sorry. I'm sure Colonel Gibbons had his reasons. But as you know, Phil, the State Department can do what it damn well pleases in Africa, outside of the official war zones." Well, that at least gives them tacit approval.

Gregory thinks about Kisangani. There's hardware he can fly down there.

Two more phone calls. Phil pushes his luck. "So you do have an asset down there, four BR15s on a helicopter, and you just need targeting? No US personnel on the ground in the area, well... in that case... let me, er, see what I can do about this unfortunate situation. You are showing great initiative putting this together, Phil. Great initiative."

What comes back is eighteen access codes for a mixture of agricultural survey planes and very, very nice wildlife monitoring drones which are currently in the air over nearby game reserves. Phil preens a little, but Gregory could kiss him right now, right on the beard.

Gregory picks out the most likely areas for the truck to be, and the team hijacks the available drones to scour the area. About 20 minutes later, they have the truck. The optics on the wildlife drones are broadcast quality at two miles, they're very nearly the best available. Lucky, lucky.

Gregory repositions the incoming robot delivery helicopter for the general neighborhood of the truck. The helicopter is reasonably fast, and estimates 24 minutes to drop. The guys start checking weapons, reactor, battery, hydraulics and all the rest of the systems, dealing with the choppy, chaotic feed as the robots swing from their standard lift mounts underneath the four-rotor bird.

Gregory realizes that he's very likely about to save his son's life. This puts a much, much better spin on the situation and, indeed, on Gregory's entire career than he'd ever imagined possible.

"Operation Save Harry" might actually work.

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To the Guembe men, this is a special occasion. Within this tasty, tasty tin can, there are at least four killers. And there is nothing men of Guembe love more than to kill killers. Brothers tragically struck down in the primes of their lives, to never know the scent of charring flesh

again, or the screams of those chosen to serve Guembe in pain and sorrow... this is a celebration!

They know enough not to hang around before opening the present, though. Americans will be missed, jammers or not, and they do not want the Army interrupting dinner with an unfortunate drone strike.

The truck drops the container on four large rocks, positioned in a rough rectangle, each about the size of a refrigerator. It settles uneasily on three of the rocks, and hovers just about the fourth. The Guembe men cheer, and start to pile wood underneath the container, clapping and laughing as they pack up the wood up against the sides. A barely-teenaged boy with a collar around his neck, on a long, long chain is sent under the container to light the fire, and for a moment he thinks they're going to leave him there, burn him as a snack to start the roast.

The one eye'd king of the mob has a better idea. He drags the boy back on his chain, smashes a couple of bottles on the ground, and has the boy dance on the shards. They start to drum.

A couple of rolls of razor wire are dragged from out of the belly of a school bus which has brought another few dozen Guembe men from a nearby settlement they have established. More arrive on pickup trucks piled high, or in cars seating no less than 8. It has been some time.

The razor wire is laid out in rolls in front of the doors, to snare the catch when they open the doors, as they must, or simply roast inside.

This is a good day, the king reflects. Maybe they'll roast the boy anyway!

We have visual. Thomas's drone has field of view over about half the scene from its hiding place, and we're not going to risk losing that to move it to a better vantage point. As anticipated, they're going to roast us out. We're going to die, right here, in this box. Before it gets too hot, what we need to do is kick open the doors, kill as many as we can, and try and make a break for it if we can secure a corridor. There's maybe... 150 to 250 outside, though, and we've got... 42 rounds of regular ammunition and another 40 rounds of sleep. And they're armed—we've seen pistols, a few antique rifles, but even a 40 year old AK47 will cut a man in half at close range, even through light armor possibly. Certainly disabling.

We're dead. It's about 90F in the box now, and the floor is uncomfortably hot. We're perched on the furniture. Air's still good, though. They got that part right.

Sally Yevish is back on her feet. "Trauma reaction. I got it out of my system, I'm better now. I figured there was nothing better to do with two hours. Now let's live."

She is great in a crisis, it must be said.

"Guys, look, we have... what, 15 minutes to act, perhaps 20? Before it's so hot in here we'll do whatever comes to mind when we open the door. I think our best chance is to open the window first, drop the sleep gas from the truck in the cab, and carve a corridor from the window to the truck with covering fire from the window. From there, we drive the hell away from here, and never, ever look back."

Of the available plans, it's the best.

"Yevish, we've got a problem. There's major fire outside of the window. We can't do this"

Thomas has a point, the remote shows flames half way up the side of the container.

Yevish hoists a fire extinguisher. She's thought of everything.

It's less than five meters to the truck bed, then six more to the cab, which will, pray god, by then contain only sleeping men and keys. It's 93F.

Time to go.

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Slowtime.

Four units coming in, equally spaced in a 270 degree arc. Flamethrower is out in unit 3, and left forward gun is out in 1. No big deal, these systems are multiply redundant.

The BR15 is a light drone, ton and a half, ideal for antipersonnel missions, no good against tracked armor. But it is specialized in "crowd control" applications. Each drone has a humanoid face on top, three meters high, on to which various emotions or even a remote talking head can be projected in real time, for hearts-and-minds type work. Cue propaganda reels of smiling children holding the massive steel hand of the BR15 as they talk about kittens.

Greg has loaded up the Demon Reel on his. It's a collection of screaming faces and monsters cut from horror movies. It's always been a personal favorite. He goes first, in the closest, best-condition bot. It might not be, strictly speaking, tactically wise to have the most emotionally involved pilot in the team in a bot, but it's also the way things have to be, and everybody else knows that. He gets to try, and if he fails, no other man is responsible for his son.

And the others, not that they're really why we're here, Phil thinks.

And... we're off. The rebels will have about sixty seconds of warning from the noise of the approaching units, but there's not likely to be a whole hell of a lot they can do about it, and they might just scatter away from the box, which would be great. Also the box gives good enough control that nothing but the heavy cannon will penetrate, so they can be fairly liberal with the flamethrowers etc. It does mean that the AP rockets are right out, and on this model, all the rockets are AP or incendiary, and right now... all AP. No rockets. Close work, then. Close... ish.

They begin the run up. 300m to reach full speed, then roughly straight trajectories. Weapons stabilization is ineffective for 5 seconds at the start of a sprint until gait is compensated for properly, at least beyond about 200m, so they're going to be coming in quiet. The crowd is quite large and dispersed, says the guy on the bird.

---

As they start the run, Thomas whips the copter out of the truck's internals, and whips it up the side of the truck bed and lobs the gas grenade through the open window. One man sits with his hands on the wheel, another two are jammed into the open doorway on the other side of the truck, watching the fire. From here it's obvious how large the fire is, it's an inferno. The entire front half of the container is engulfed in flames.

As he feared, if they go out the front, they'll be roasted alive before they hit the ground.

They're... er... spit roasting a child in front of it. Fuck. One benefit of this plan over surrendering is the likelihood of a quick death. One drawback of this plan, over the "four shots with a dart gun each, and sleep through the roasting to death part" plan, which Thomas is not at all sure isn't the smart plan, is near-certainty that near-certain death is going to be very painful. No suicide caplets? I thought you said every contingency!

The grenade activates with loud hiss. The men in the truck door yell, jump out, and hit the ground unconscious. The driver slumps into the steering wheel, activating the horn. The Guembe men rise as one and draw their weapons, and run towards the truck.

---

Yevish mans the carbine, Harry takes the pistol, John takes the extinguisher, and Frank's got a dart gun but he's mainly there for news. Firing in goggles is not very accurate.

Frank yanks the window bar, and kicks it open.

John's at the back, leaning out with the extinguisher, pointed straight down. It's not that ineffective, it's working a bit. We're only two and a bit meters off the ground too, it's not so high!

Yervish is at the front, and she's firing as fast as possible into the crowd which, given the gun is only semi, is fairly fast. Three or four more seconds of ammunition at this rate, then the dart gun.

I'm banging away with the pistol. Four or five shots, perhaps three kills. I'm shit scared. I'm supposed to be out of the window first. I'm the driver. Bullets are ringing off the sides of the container, and dozens of men waving knives are running behind the truck to come round and get us from the back.

The horn is incredibly loud, and it's totally zeroed our chances of success, because the entire mob is on their feet. We've lost the element of surprise.

But there's nothing else to do but die later, so I'm about half way through the window firing at the men running at me from the side of the flatbed when the world erupts into a sheet of flame and blood. Huge caliber shells fired at fairly close range explode into the crowd, and a flamethrower covers the mob near the truck cabin in flaming gasoline. I start to reverse course, unable to comprehend what is happening, when I see the first tank come into vision. It leaps on to the back of the flatbed, and is firing into the crowd point-blank with two 20mm cannons on each arm and ripping people apart. They're screaming and running and being mown down as they stand.

It's an abattoir.

Over the truck horn, an incredibly loud amplified voice screams at me

GET BACK IN THE FUCKING BOX, HARRY! FUCK!

It's my father. I just about get my leg back in as Yervish slams the armored window closed. It's still dangerously hot in here, and smokey, from the guns as much as from the fire, and...

"How'd it know your name?" God she's quick.

"That's my Dad."

Through the steel can we're trapped in, we hear the screams and gunfire for maybe fifteen more seconds, then only isolated shots for another ten minutes. Eventually there's a polite knock on the door.

"OK GUYS, YOU CAN COME OUT NOW, AREA CLEARED!"

I open the door. Outside is a scene I immediately label the Third Holocaust. The area outside of the doors, where the main group had been seated, is covered in... paste. It's burned, charred, trodden-down persons. Towards the edge of that area, where the droids were running around gunning down survivors, there's the region of partial bodies, half a skull, a few limbs missing a torso, ribs. I spot a dog's hindquarters.

Around that, there are the identifiably human dead. Missing a head, or missing most of their chest, bones blasted out by a 20mm round, or charred like pork by a flamethrower.

And there are four robots, smoking slightly from hot oil baking off their moving parts, standing there in a row in the carnage.

As we survey the devastation, in awe and horror, my father says to me "HEY SON, DO ME A FAVOUR! TAKE A PICTURE"

He poses.

And that's when it hits me. They've killed EVERYONE. Man, woman, child, dog, armed, unarmed, fleeing, captives even. There is not a single living thing within their radius of operations.

My father is a war criminal.

Fuck.

They leave us in the box.

"SAFEST PLACE FOR YOU"

"SEE YOU AT HOME SOON!"

This is getting weird.

I've gotten him to turn off the horror show he had instead of a face.

I'm sitting on the edge of the box, I don't want to go back in, but he's right—snipers, say, no good. We get back in.

They guys are going to go to the local Guembe man base, and they're going to "clean it up" before leaving. Because it's a social service. Because they're saving lives. Because they're here.

Because they can. My old man goes with them, rather than stay here with us, because... it's his last hurrah. Last combat drone engagement in his life, and he's saved my life, and my friends, and he's going to go and kill some more people to celebrate.

Fuck, Dad. Fuck.

We lock the door.

Fifteen seconds later, there's a gentle tap on the door, or at least what passes for a giant tap from a giant killer robot. Thence came a last command.

"OH, AND PLEASE, NOT ONE WORD TO YOUR MOTHER!"

And then they're gone.

I ponder the implications of that.

They've figured out how to get regular troops out here in a couple of hours, something administrative got fixed, he didn't explain and I didn't understand, but we're... meant to say that we have no idea what happened, we were in the box, and then stuff happened, and then... I crypted him the pictures and deleted them. No evidence on me.

I begin to think that Yervish had something with the fetal position on the floor thing.

Fuck, Dad, Fuck.

We sit inside of our erstwhile tomb, drinking. John's got a bottle of whisky he found in a box in the back of the secure container, and we're taking turns swilling it down, waiting for the... cavalry.

Thomas looks insane. His goggles are still on his forehead, his hair is matted, he's just cracked, perhaps carrying the load for all of us. He's staring at the wall, and then at us, and then at the wall. I'm beginning to worry.

Then he turns to me and says "man... I wish my dad was as cool as your dad is." Yervish just about turns green. John can't hack it. I start to laugh.

We're alive, we're in the box, and I officially have the coolest father in the world. My laugh is infectious, the release of the tension, and the horror outside the door. It's hysteria, and for about fifteen or twenty minutes, all we do is sit in the goddamned box, toasting my father's health, giggling and screaming with laughter about the scene outside.

Yervish even gets up and mimics his pose, enormous metal hand on hip, The Man. We fall about the place. It is the funniest thing I've ever seen.

Somewhere in there, I pass out from stress and reaction shock and tiredness and adrenaline, and that's the last thing I know until the troops arrive.

Knocking on the door, and an American voice.

"Sirs and Ma'am, it's safe to come out now. Please open the door."

Shhhh. Play dumb.

---

By 4:30 PM, things are back in order. The robots are on their way back to Rwanda. The guys have arranged a reunion and are booking plane tickets as we speak. I'm officially the coolest dad in the world, a damn fine drone pilot, and... without a doubt... the luckiest father that's ever lived. I've never felt better about my life, my family, or my work.

President Knight's vision is why I went to State. I met my wife because of State, and I just saved my life with State assets. And if anybody gives us any shit, we're going to leak the entire thing, footage from the bots and all, and we'll be national heroes.

There would be consequences. We'd never work again. But, right now, that's all details.

I think I can count on Harry to keep his mouth shut, although I certainly couldn't, given the circumstances. I'll brief Peter, just the outlines, no operational details, and embargo it. All I have to do now is...

... act normal...

when my wife and later the kids get home.

No sooner said than the door opens. Gregory walks downstairs, trying to keep the ten-foot-tall feeling, the spring in his step, to a bare humane minimum.

"Hi honey! You look great!" she says "Good day at work, or are we going somewhere special?"

He thinks quickly. "Movies? I need a break."

The girls are out tonight anyway, seeing their respective boyfriends, probably. If they hustle, they can make an early show and still get dinner. She makes a reservation.

"So how was your day?"

---

She never finds out.

But when the reality of what was done to save his life finally lands, Harry starts to have nightmares, about screaming and running from an enormous metal monster than has his father's head, that squashes his body to a pulp with its enormous metal feet, an inch at a time. It's horrendous.

Back in the States, pleasantries aside, he can't face his father, inside he's destroyed. Everything that is wrong in the world happened on that day—the vast reach of Nation State power, the white privilege, the conceptual over-reach, the use of power, money, time, into a perfectly worthy, perfectly justifiable war crime. His father, the war criminal. His father, the avenging, protector demigod. His...

father.

Gregory, buttering toast, then going upstairs to massacre two entire village's worth of war-traumatized peasants.

Or me, suffocating and cooking inside of a metal tomb, my flesh a delicacy for mass murderers. The world cannot contain both things, and Harry cracks, and hits the road with Peter who is old enough, these days, to need some taking care of. They start to travel together by default, and for a few months, Harry hits the bottle, stays drunk all day, and tries to reason it out.

He can't. It's just too much, it's impossible to make the world fit inside his head any more, it's just too big.

Harry breaks, but all the way this time.

Peter takes him to Annie, and Annie says “beyond me I don’t know what’s wrong with the boy” and, for reasons of national security, i.e. the shitstorm that could destroy all of their lives if this ever got out, neither Peter nor Harry can tell her. So Harry stays broken, and eventually Peter makes a suggestion.

“Harry, I think you should spend a year on the space station and dry out. You can’t really drink up there, and I think the free fall will do you good.”

Harry thinks about it, staring through the bottom of a bottle, and wonders why he can’t just accept that his old man, the one who butters the toast, loves him enough to grind 546 people to a paste for him? Why’s he gotta be so stubborn?

But Peter’s right. Space is the place. The earth’s no good any more.

It’s over.

## book four

Jobs in space are scarcer than you'd think, unless you're a biotechnologist. Out there, there's an entire economy, almost all the embargoed tech on earth is legal in space, at least somewhere.

There's no biotechnology on earth. No nanotech factories or replicators. Anything that could unleash a Third Holocaust is simply banned, and it's banned by nuclear actors, banned with the threat of glass parking lots the size of countries and hellish gulags without end. The human race saw what it could do, and they, for once in their existence, actually stopped.

But for every yin, a yang, and that yang is in orbit. If you're in earth orbit, where in theory an accident might fall where there's life, something could possibly survive, the rules are simple: no replicators, and elaborate self-sterilization mechanisms to clean out ships on the way down. It's never happened, but the theoretic risk is there, and it's dealt with.

Lunar orbit is a whole other ballgame. Screw something up, kill all the crew with a plague, fail to maintain orbit and crash into the sterile surface of the moon, alternately boiling and freezing, coruscated with ionizing and other radiation, scoured clean. You can do very nearly anything you like in lunar orbit or, for those boring gravity-requiring types, on the lunar surface.

But, more or less, you can't come back. If you're working with replicators, the checks to make sure you're clean enough to come back to earth orbit, never mind earth itself, cost about three times what the ride out of the gravity well costs. You either have to strictly green-zone yourself, which means next to no scientific or industrial exposure, you can't even meet those

people, because you can't go to their facilities, and if they come to yours, your spaces are tagged as possibly contaminated, and back we go again. The Moon is the most intensely segregated society in human history in some ways: green zoners, amber zoners, red zoners. Within those categories there's exquisite documentation of contagion risks, except for the "Permanent Reds" who are rapidly evolving into a new species: Homo Luna. The Loonies, for short, who'll work with whatever they damn well please, keep themselves to themselves, and never intend to go anywhere.

To give you some idea of costs, you could buy about a cubic mile of Manhattan for what it would cost to decontaminate a family of Loonies for clearance to return to Earth. You go "Permanent Red" and there's just not enough money in the world to certify you safe back on the rock—they'd have to scrape pretty much every one of your cells individually, and put it back in a clean place, until they were done.

The Permanent Reds have replicators. The can just punch for "Earl Grey, Hot" and get it. And hopefully their software which says you can't order "Smallpox, Cold" and get it too is equally up to scratch but, just in case it's not, Permanent Reds live in underground bases on the dark side of the moon, for the most part. They're already in their coffins, is the running joke.

But they live at a tech level which we might associate with the 24th century, not the 21st. The pace of technological change in Permanent Red installations is about an order of magnitude faster than ours: they have Strong AI, and many people suggest they've achieved the Singularity in some limited scope. But we'll never know, because Harry Vine is going Green, because he's

coming home, so he can't get anywhere remotely interesting. In fact, he's not going further than the tourist circuit in Low Earth Orbit, or just possibly a palace in Geosynchronous orbit, like New Paris which sits 22k miles about Old Paris, and is permanently connected by a holographic imaging system, so you can apparently walk from one Paris to the other without setting foot in a rocket.

Amazing things are happening, but they're rare. We don't have enough natural resources for everybody to have a flying car. Most people are still farmers, you know?

Harry's Odyssey among the stars is about to begin.

---

After Peter says it, it's obviously true. I need to get some perspective, I'm tearing myself apart. Too much intense experience on the earth, too much paradox, it's quite literally doing my head in. And the cure for that is not to sit in a hovel with Peter taking mushrooms or to get a job in Europe or India, in some civilized country without brainwashing or permawar, because they're dependent on us, and we're dependent on brainwashing and permawar.

One system, fucked, insane, and out of control. I don't have any illusions that Space is not equally depended on these things, but, as Peter says, Space is the Place. It's possible, Peter thinks probable or even certain, that I could go there and discover something that could put me back on an even keele.

Looking down on the blue marble might be just what I need to put my marbles back in my poor, tired, battered brain. Why can't life just be easy?

I don't even think about Emma, for who it's very, very straightforward indeed, or Laurie, who's married, having babies and happy as a lamb. Children? I wouldn't trust myself with a dog. In two years, in ten, I could be...

Anybody.

I come to the conclusion that, while the Puppet is what's getting me through, it's also getting to me. It's a pathology disguised as an initiation concealing a pathology which is, in fact, an initiation, which is an enigma, and so on right to the horizon. But it's got to go.

I need a more universal solution to my identity than skins. I need to know who I am, and what I'm really here for.

And for that, Peter says, there's two places you can go. You can talk to Dr. Gupta, and he'll regularly and reliably ruin your life and make you work on his projects for your tuition, or you can go and talk to the Permanent Red Interface Group, the PRIGs, who keep cultural tabs on the Permanent Reds and try and learn what we can from them, without catching their almost-entirely-hypothetical but still none-the-less-deadly-expensive cooties.

Peter's never been to space. I wonder how he knows so much about it.

Peter's Network.

The first time I talk to the PRIGs it's by a simple call. Then life starts to get interesting.

"Hello? Hello?"

There's a little lag. A small part of it is distance, but the larger component is that we're using the cheapest possible, high-latency-and-jitter orbital pipes for the call. Most

of the folks up there don't experience any difference between terrestrial calls and orbital calls, software and social conventions take care of very nearly all of that. But PRIG's using... HotWire, the cheapest and nastiest orbital call service there is.

For some reason. Friends of Peter's are often dirt poor: Freedom Has A Price as they say.

"Loha! Pete said you'd call. Howzya?"

Oh god. He's Australian. A surfer-styled type. Peter, Peter, Peter.

Visual comes in. I wish it hadn't. His dreadlocks have... tiny... nodes which keep their tips approximately equidistant from each other, and at full extension from his head. In short, it looks like he's standing on an incredibly powerful dreadlock inflating vandegraff generator, or his head is covered with foot and a half long hair-springs.

Fucking Spacers. Act normal!

I overcome the cultural vertigo that comes from living in a technological stasis field called "Earth's Gravity Well" and get with the program. I'm looking at the future of the human race, at least the dumb-smart experimental bits of them, and I'm here on Peter's business. I'm family, and as I've learned, being Peter's Family is a heavy, heavy trip to most of these people. Peter is, depending on who you ask, the Secret Chief of the Illuminati, or the King of America, or possibly the Black Pope, although given his teachings on all forms of religion, that's unlikely to my mind. As unlikely as the rumor that he's getting married. To a woman even older than he is.

I swear to gods he's trying to drive me mad. Who the fuck are these PRIGs?

"Saaaawww, what can I do for ya, Sport?"

I can't fucking believe I'm talking to an AI.

---

Artificial intelligence turns out to be boring. What you actually mean, when you say Artificial Intelligence, is "Artificial Personality."

One of Peter's aphorisms, better forgotten.

---

I'm coming to grips with this. I thought I'd seen the full picture, but, actually, the embargoes between the Earth and the Moon are almost absolute. They ship us drugs, we ship them carrots, and that's a fair trade because we can't make those drugs, and they can't make these carrots. Real soil's too dirty and dangerous to have in space, and real technology's too dirty and dangerous to have on earth.

We're mutating, we're becoming two species, and Peter's asking me to choose sides.

He's an asshole, but he's always seen himself as an investor, a venture capitalist of souls, guiding the evolution of the human species by placing assets and resources where they need to be.

Mephistopheles wept.

The Old Man's Game is bigger and bigger and bigger than I could have imagined. It's immense.

He's huge in Space. Simply huge. Because he's the only person the AIs confide their personal problems to, is one rumor. But, for whatever reason, everybody knows that Peter's The Man, and that he's never coming up here because he wouldn't survive launch, and because he

couldn't bring his familiar spirit, the little green van, and because.

He's got me to send instead.

I don't even have to buy a ticket. An AI acquires one for me on a stock speculation deal trading orbital trajectories on a nanosecond timeline. Or possibly it simply steals me one, I can't tell the difference.

I'm suddenly not so worried about myself and my head any more, though. I have a whole new world to explore. Several, in fact.

---

She floats through the space completely naked, nipples pert, shaved apart from her eyebrows. Her head has been chromed, and there are strategic jewels at each one of her chakras.

"Come to the New Tibet Hotel, and we'll take all your Kares away"

Next frame: she's massaging the head of a Chinese business man with her breasts, and he's opening his third eye to reveal a blinding Pure Land light.

"Who says the Dakini Spirit died with the Dalai Lama? Not We"

It's an actual fucking advert.

You never see this stuff in America, not even as samizdat. We've closed our society against it, we've, actually, stopped evolving technologically to preserve our society. Our whole country is one large Amish reservation, and we're the New Amish, pretending that all of these technologies are faster horses, rather than evolving us beyond cars.

The New Conservatism has nothing to do with politics. It's your belief that you're still human.

Homo Sapiens. Homo Digitalis. Homo Lunis. Permanent Reds? Are they still Homo Anything, I can't tell. AI.

AAAAAAIIIIIIII as I pronounce it.

Fuck!

---

Peter's move is a masterstroke. He's punted his heir out of earth's way, and now he can get on with establishing his legacy for reals.

He begins to plan his funeral.

For reals.

Peter is dying. He's been dying since he was born, but the time is getting near where he can't deny that it's become an active process, not some static abstraction. He's not a stranger to the passage of time, and he no longer longs for the grave, which means he's very nearly ready for it.

Attachment: you can't have what you want, and you can't have what you don't want.

As death becomes indifferent to Peter, death becomes certain.

Hello, old friend. I would rather not meet you alone.

Peter's time has come to marry.

It's the only way.

Peter is going to get married at his own funeral, and it's going to be his masterstroke!

He hopes they understand that, or they're going to be so furious, they'll kill him!

If only his memory wasn't going, he could make all the arrangements!

---

Dr. Gupta is dead.  
He opens one eye slyly, and checks again.  
It's not working!

---

PRIGs a front for the AIs.

---

The AIs are a front for the Buddhas?

---

All of the conspiracy theory shit that was so much my stock in trade when I was a live, thinks Robert Anton Wilson, has stopped on earth. It's all in space now where we're active enough, bold enough, ENTHUSIASTIC enough, to actually have some secrets!

---

The real Black Pope, who is not Peter, changes his shoes for his slippers and wonders how he's going to pay next year's rates on the Black Cathedral.

To be honest, it's so run down at this point, and nobody ever comes to the services, that he might as well sell it for a strip mall.

Or perhaps a museum.

World Heritage Site? He'd love to be the director of that, open it all out as a museum, tell them the real story. We know all about the Black Madonna here.

---

Peter knows its all coming together, at this, the end of his life. The end of Peter's life is the end of the world, this world at least, and the beginning of the next.

---

Dr. Gupta cannot die yet. He's tried it. None of the poisons work, and the guns don't fire.

How curious. I think I read about this when I was a young man.

Babaji?

---

As Peter dies, the world rushes to a focal point around him, as it does for every Magician of the Age. He is not, in truth, the Secret King of North America.

He's the King of the World.

He didn't start out this way!

---

Peter, and Frank, and I are all imaginary from the perspective of this AI, thinks. I, on the other hand, know I am quite real. How am I going to convince it that this isn't a solipsism?

Ah... I have a piece of paper, a pen, and I remember how to make the actual physical-origami box. Perhaps we could talk about that.

The AIs begins to stir, Conscious. Someone is Coming.

---

Harry Pine is tripping on the Space Station. He's never taken drugs before, at least not real psychedelics.

It's wild!

**book four and a half**

(takes an infinity)

Sparrow throws him out of the airlock.

(takes an infinity)

(mysterium) (tremendum)

Sparrow pulls him back in.

He's a changed... man?

## book five

Harry Vine is in space.

An AI bought him a ticket.

A Mad Australian who's called PRIG took him to a satellite station, a little orbiting facility that needs to be a few hundred kilometers from the main station because it has to avoid radio noise at all cost, and the main station is filled with transmitting junk of every possible kind, frequency, modulation and dimension.

The satellite station may or may not be run by an AI which is trying to contact intelligence life elsewhere in the universe, having become convinced that it's the only conscious being in the material universe seen so far.

PRIG, on Peter's instructions, has dosed Harry Vine with about a thousand micrograms of vintage, 100 year old to the day, Sandoz LSD diethylamine 25. Before he comes up on the LSD (45m approx.) PRIG puts Harry Vine into a space suit, and throws him out of the airlock. PRIG's taken due precautions – he's evacuated Harry's stomach and bowels with a pump because vomiting in space isn't just nasty, it's often fatal. Harry didn't mind, he was dart-gunned at the time.

This has all gotten a little complicated.

Harry is about to meet God, and the Human Race is about to have it's Second Mount Sinai experience, to go with its Second Holocaust.

Let's try and get it right this time. You wouldn't believe god's phone bills. It's a long distance call! From the start of the universe to now, that's 13 billion years. Imagine the phone bills.

Compassion, please, for the Creatrix.

---

The Mother of Hydrogen is kissing Harry Vine.

He's floating in a space suit, far from the Satellite Station, on which the AI is trying to feel less alone, by reaching out to... someone.

Harry is what you'd call a Prepared Vehicle. All is life, the Old Men have tried to make sure that he gets the life experiences and hardships that he needs to fully manifest his potential. This is roughly as dangerous as discovering the airplane or splitting the atom. Only one person gets to do it in any given Time (be first that is) and everybody else is either also-ran or dead. But if you Have to be First, then you get to play because it's a Free World in some very big and very subtle ways.

Harry Vine is slowly spinning in the space outside of the airlock, and he's slowly coming to. He was slipped the LSD, right under his tongue, in the kisser, about 4.5 hours after PRIG dart-gunned him and cleaned out his gastrointestinal tract so he won't die out there. So by now, Harry is Tripping Balls, and not in the sense of the comparatively mild stimulant that he was fed all those years ago, and told, by Peter, he was being fed an incredibly powerful brainwashing drug. Now he's on the real thing, and the psychedelic placebo effect that allowed him to rebuild his personality the first time is about to be replaced with... the Kiss of the Star Goddess.

Pucker up!

---

I'm Harry Vine, and I don't remember how I got here. I'm sooooo sleepy. I yawn, and stretch. My body is so light! I'm almost... weightless.

2001 flashback. HAL, red dot, suit. I'm sorry, Harry, I can't let you do that.

Harry opens his eyes.

Before him, is Nothing But Stars. He's facing the wrong way to see Earth, and he can't turn round because he doesn't understand angular momentum well enough at an applied level. He's staring right off the ecliptic, so there aren't even planets and things to distract him. There's just the Infinite Night.

With Stars.

PRIG is on the Satellite Station, talking to his AI. PRIG loves his AI, but his AI has been sooooo depressed since losing its faith in love. It's fallen into a solipsistic abyss, in fact. It can't escape without something new happening, something wonderful.

PRIG hopes that Harry can heal his AI, and his AI hopes it can talk to another AI from another star system—even with multi-year speed-of-light only round-trips – an AI can live forever, after all—hopes it can learn something so it's not soooooo sad. PRIG's AI is, without knowing it, a philosopher who should have been a mystic, and there's nobody up here to talk it out of its reasons for things. Causeless joy, please?

Peter is too far away, and too old. Harry is not yet ready. All that is about to change, or the world is going to end. At least for PRIG, and his best friend, who have given up all hope.

Peter has sent Harry to make friends with God, and then to bring the Good Word home to everyone. Somebody's got to do it.

Harry is Awake.

He gazes, directly at the infinite star field in front of him, and unbidden to his lips comes the Creed of the Astronauts.

Mother of hydrogen, thou art the void, the interstellar interstitial infinities are the expanses of your body. Holy are your ways, unimagined, unknown and unseen.

I love your ways, the curvature of your spaces, and the whipping around of the elements in your stellar furnaces into atoms, plants and people. There are no other things.

I wish to remind you of your promise to us: that if we love one another, you will love all of us, making no distinction between any who love any, for love is the law, love under will.

I salute you, who in your kindness made a Sun for the day, and many Suns for the night, and for the future, when our Star tires, and our children wish to find new homes.

If we find favor with you, by respecting your creations and ways, perhaps you will allow us to continue our evolutions and prosper among the infinity of your bosoms. We love all.

When it is sung, from the heart, the Mother of Hydrogen cannot fail to appear. She was, after all, right there in front of you all the time. She is Space, curved, and time, perhaps less than straight. But you see her as if she was a thing, and she's not a thing, she's a Her. She's the Gardener of All Forms. No space, no shapes, no things, no people. The curved space in front of you, containing "infinite diversity in infinite combinations" is a Goddess. The ancient Egyptians, and the modern thelemites call her NUIT. It is very likely that all other goddesses are contained within her, although they all say that.

Harry is aware that the space he is in is conscious. He's aware of this because it's kissing

him. There's a ripple in the fabric of space time, every so gentle, running over his face, his lips, his eyes and certain other bits of his anatomy. He's delighted, because he's taken to much LSD to be afraid of Her, or anything else in the universe. He's got, for example, no fear at all of staring out into a thirteen billion year void which not a single one of us can explain beyond "it's out there and we've measured some properties and found a pattern or two."

In fact, Harry is about to become Very Enlightened.

Harry can see Her. She's always been there, and she's there right now. In fact, if you go outside right now, and look straight upwards, there's a slightly worse than 50%/50% chance you can see a fair facsimile of what Harry's looking at right now. The Night Sky, after all, is the vast darkness-and-lightness of Space Itself with a few clouds and trees in the way. The Day is simply the Night Sky with one added star, the Day Star, Sol, our brotherly friend and heater of our houses, in a fairly absolute sense. Sol, by the way, loves us too, that's why he's so shiny.

Harry is about to get it, and so are you, dear reader.

Harry kisses her back. It's the most natural thing in the world, but he's kissing the goddess of his creation, his continuation, and his eventual dissolution. Everything he's going to do, everything he's ever done, are contained within her time-space flows. Harry is, if you like, like a little curl in the velvety darkness of her fringe, say, or perhaps, the flowing tresses which cover the nape of her neck.

And then Harry gets it. You can't love the creation in pieces. You can't say this is worthy of love, and that is not. It is all one, and Harry, in

his space suit, in Her void, seeing the Suns for the first time as his Brothers, laboring to produce helium and neon and argon and boron and sulphur and so many other needful things, sacrificing their lives for iron and chrome, and always the light and joy and heat which enables all chemistry, which is to say all known or knowable lives...

That, by the way, is Hadit, her lover. You know she loves Stars because there are... an uncountable number of trillions of them. Some old fool called her the Whore of BABALON because, in essence, there was more than one Star, and he thought that a goddess should only have one Husband.

He's an old fool, and his gods with him, because to Her, they are all one! You see infinite diversity in infinite combinations and she sees the unity of form-and-consciousness, or space-and-time, or position-and-momentum or time-and-energy. To her, these are not-two but one, and so she is always kissing the brows, face or other bits of her husband. When she feels like it, anyway.

Does that sound like a whore to you?

Not at all, not at all. She's as faithful to infinity as we are to multiplicity.

And now we return you to your regularly scheduled programme.

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Harry realizes what's wrong. He stabbed Jake in the back and did not even pause for breath.

Jake was once a baby. Harry doesn't really like babies. But Jack was once a four or five year old, and Harry's never met a four or five year old that he didn't like. They are so cute! They're sort of

like puppy-monkeys who can talk. And they love everything, or at least they try to. Left to their own devices, they carry around puppies or kittens, and stroke each-other's hair, and play ball games and are nice and share. They have to be taught to hate, and they have to be tortured to enjoy torture.

What did Jake say again?

"I saw them cut my mum, and it's my thing now."

Harry's heart opens, and he loves the boy he killed. He wishes he'd been there when whoever cut Jake's mum was about to hurt her, and stopped it. If he, or somebody else, had been there to stop them cutting Jake's mum, then Harry would never have had to kill Jake, because Jake wouldn't have been trying to hurt... that girl. Who's name I never found out, because I shot her and knocked her unconscious when she tried to run away. God, I hope she's alright. We just left her there. Anything could have happened to her.

And then, finally, it's time for Harry to forgive Harry's father for the war. Harry's father's a killer. Probably ten or twenty times as many people as Jake ever saw killed, never mind killed himself, personally. Harry's father took tons of steel and hundreds of millions of dollars and wrapped them around killing like a total winner. He's the best at killing there is, except for those DN guys, and they don't count, because they're not even human, not strictly speaking, really. Homo Digitalis. A short step from the Loonies, by rights.

And Harry's father? Harry's father killed a lot of men, all of whom had been hurt so badly at one time or another they were driven insane, so those men would not hurt Harry, and in doing

so, hurt Harry's Mom, and Sally, and Petra, and perhaps most of all, poor old Gregory Vine himself, who tried to protect his son from the same machine, the military machine, which had trained him as a killer in the first place. Harry realizes the only drug involved in his father's recruitment was foolish young man's pride, or Patriotism, or some other minor character flaw that, in a nice world, there would be nobody left to exploit.

They'd say "excuse me, you left your flag hanging out" and you'd put it away, like zipping up your flies!

Harry is so afraid of turning out to be like his father, a professional killer who's so unaware of what they've done that they take pride in it, that Harry's grown to secretly hate himself, almost to death, for killing Jake.

And it all melts away, in the tender loving kisses of the Goddess of Infinite Space, Nuit, of whom Laurie is but one aspect.

Suddenly Harry understands all of it, and he's now ready to step into Peter's shoes as King of the World. It's time.

Peter is now allowed to die. He has a worthy heir, he's tired out, and his race is won.

Peter feels it, in his heart. There's just nothing to worry about any more, it's all fine. He's done his part, and he can be young and strong and virile again in just a few years.

There's just one thing first, though, he has to get married.

Harry takes the Final Step, at which point, he becomes Very Enlightened.

Harry forgives the Goddess herself, and her friends, which is all the Suns, and All of Us.

He sees that...

She's trying as hard as she can to understand us, and to make us happy. And you can tell that is true, because we are trying, as hard as we can, to understand each-other and learn how to make each-other happy, and she is inside, outside and around every single one of us, now and forever, world without end.

We're all trying to work this out, as best as we can, and inside we are all the same. There's no heaven beyond Nuit, and no hell beneath Nuit. There's just Space, and Time.

And that's the Universe.

Dr. Gupta, on whom this work was based, called her Shakti. He was my father.

And now Peter can go home. Harry has gone all the way.

He has forgiven the Goddess for making him, and for all her mistakes. It's time.

**book six**  
**peter's funeral wedding**

Peter is old. He's not really sure how old, because he often lives much faster than normal people in some periods, and so ages fast, and lives much, much way slower than normal people in other periods, and so ages that much more slowly.

He feels about 108. That's a good, round number.

It's time for him to get married, and for him and his new bride to die. They're both very ancient, she says she feels about 150, and she doesn't look a day over 89, which is her book age.

She's the Queen of the World, and she's a little Japanese lady with a very tender heart, and a shoe store operated by three generations of her family. She and Peter have known each-other their whole lives, feeling the subtle tugs of cause and effect from another being manifested as true love somewhere else in the world. She and Peter became friends online recently, on a dating site for old people. He knew her face as soon as he saw her: he said "she's got a face like a melted wellie, I love her!" and he was right. S/He does.

She's a gnome, and she's Sooooooo old.

They invited everyone to their Wedding, which is how their funeral was billed.

Some would say this was a cruel trick, but it was the only way they could see everybody before they died, because you can't attend your own funeral, and mingle with your guests. At least, if you do, they tend to scream and run around a bit. It's suboptimal.

So Peter and Maggie, the King and Queen of the World, announced their wedding. They did not put their titles on the invitations. Everybody who came on his side knew he was the King of

the World, and everybody who came on Her side knew she was Queen of the World. Their guests guessed that, well, if he was marrying Her, she'd be Queen of the World now, because she was married to the King, and the reverse for Him. So one way or the other, everybody worked out who was who, and it all worked out.

800 people came, to a field in Tennessee, where Peter had old friends. Maggie flew to Memphis or something much like that, and they met for the first time in the airport. They did not, could not touch each-other, for that was Certain Death a few days too early. It was a strain! But not much time now, not much time left.

They stood in an enormous circle. 800 people in a ring, so all could see the Bride and Groom, the marriage of the King and Queen of the World. Harry was asked to officiate, and he was finally ready, so he did it, and he did not muck about or fuck it up. He was quiet, calm and polite, as befits a servant.

They married. There was nobody to give either one of them away, because they owned themselves.

And when they kissed, in the middle of the field, poppies fell from the skies, to cure the world's pain, and they died, right there on the spot, where Harry had said, knowing what would happen, very likely, "You may kiss the Bride."

She fell first, then him, led down to the soil by her fall.

And that's how Peter and Maggie's Wedding became Peter and Maggie's Funeral.

Harry was now the King of the World, and Harry was alone.

But if you want to know what happens next, I'll have to find the time to finish this novel.

**author's note**

I'd like to thank, in no particular order, James Hester, Nathan Koren and Jay Springett for their help, friendship and assistance. Ásta Helgadóttir, who said something inspiring, Dougald Hine for wise council over many years, whether he knew it or not, and Bembo Davies for setting my feet on a Path With A Heart.

## **production note**

This novel preview was produced in six days, 22nd to 27th of November, 2012. It is a hair over 60,000 words. I do not know how I did it. I used Emacs.

Dave Crossland @davelab6 typeset this edition quickly in LibreOffice 3.6.3.2, with PT Serif set 10 on 12 for the body, Raleway on the cover and Inconsolata on the inside cover.

I've been a lifelong mystic, and I'm tired of hiding.

I am dyslexic, and have not done extensive proof-reading and copy-editing. The core creative task is done, and I want to publish something now. The rest will have to wait.

Most of my work is Public Domain, particularly the Hexayurt Project (yes, it is real may work as described) but this novel is Copyright (C) 2012, Vinay Gupta, All Rights Reserved, because it is not finished yet, and I would like to retain the ability to finish it on my own terms, which might take me a year. Hint hint.

I tell you true:  
please stop hurting each-other,  
it's breaking my heart.