

# **The Arrow of Morality**

**A Meta-Ethics of Increasing Coherence over Increasing Context**

Jef Allbright



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# Copyright & Edition Note

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**AI use is welcome.** Reading, summarizing, translating, and conversing about this text with AI systems — including the project’s own companion — is expressly encouraged, on the same attribution-and-share-alike terms.

The framework at the book’s core — *increasing coherence over increasing context* — was developed by the author beginning around 2003.

*Copyright & Edition Note*

**About this edition.** This is the *reference edition*, in the author's own voice. The book is written once, as a single canonical source, from which the others are generated: a plain-language edition for the general reader, translations, and an AI companion that will discuss the ideas at whatever depth and in whatever form serves you. If this voice isn't the one that suits you best, another almost certainly will — and they all say the same thing. [Where to find them: [link](#) / TBD.]

# Table of Contents

*The book runs in two parts, with supplementary material after. **Part One** — **Theory** builds the machinery — what value, agency, and morality are. **Part Two** — **Practice** puts it to work: the same arrow, now walked outward through widening circles. A **Supplemental** collection of essay-like deep-dives and hard cases follows, then the End Notes and a short Back Matter. Part One is drafted and numbered; Part Two and the Supplemental are **named rather than numbered** — living, extensible, and still in progress.*

Note: the website, PDF, and EPUB generate their own navigation automatically (Quarto). This page is the canonical, curated contents — front matter and planning overview in one.

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## Front Matter

- **Copyright, License & About This Edition** — the rights statement (CC BY-SA 4.0), the plain-language terms, and which edition this is.
- **Introduction — The Restless Arrow** — Why morality was never a destination but a direction: the contradiction between “we are improving” and “we are only changing,” and the third option that dissolves it.

## Table of Contents

- Two minds about right and wrong
  - The trouble with maps that don't move
  - From a place to a direction
  - Why this is not “anything goes”
  - What you get for the trade
  - How to travel this book
  - An invitation
- 

## Part One — Theory

*Where value, agency, and morality come from — built from the ground up, so that by the end the one-sentence definition reads like something you can see for yourself.*

### 1. Where “Better” Comes From

*How value enters a valueless universe: order builds for free, novelty compounds, and “good” switches on the moment something works to keep itself alive.*

- A world made of three signals
- Where does “better” come from?
- Order for the asking
- How novelty compounds
- A candle and a cell
- The outward reach
- The same old story
- A map, not a mirror
- *Abel & Tara: At the shelter*

## 2. The View From Somewhere

*Perspectival realism: every view is from somewhere, yet answerable to a shared world — which is exactly why some views are better than others, and “who’s to say?” fails.*

- Custom is king
- The window
- We are not cameras
- Seeing the edges
- In context
- Made is not arbitrary
- A tripod, not a circle
- Standing at the window
- *Abel & Tara: After the meeting*

## 3. What Matters

*Values as a living, layered model rather than a list — grown from a deep shared root, and growing more coherent as its context widens.*

- What do we weigh by?
- Not a list but a model
- The old roots
- The deep and the shallow
- When the model holds together
- How conflicts actually end
- *Abel & Tara: The lot*

## 4. What Works

*Methods as the other half of a moral life: competence that is morally blind on its own and matters only when coupled to values.*

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- The harder half
- A second model
- Knowing how
- Scope
- Winning is the wrong word
- Why being good at it isn't enough
- *Abel & Tara: Getting the rooms together*

## **5. Selves Made of Selves**

*How small agents nest into larger ones, why care is a gradient rather than a flat impartiality, and the real cost of holding a bigger “we” together.*

- My child, the stranger
- Selves made of selves
- When a “we” wakes up
- The cost of getting bigger
- Playing to keep playing
- Why you love your child most
- *Abel & Tara: Us*

## **6. The Arrow**

*The one-sentence definition of morality, the counter-dynamic that names its opposite, where “ought” really comes from, and how the three old traditions each find their place.*

- The one question we can't answer
- The sentence
- The arrow runs backward
- Where the “ought” comes from
- How strangers agree
- Telling better from worse

## Part Two — Practice (in progress)

- The three old answers
- What the whole climb was for
- *Abel & Tara: One sentence*

### 7. Meaningful Growth

*The hinge into Part Two: knowing the direction is not the same as walking it — and what “growth” means once it stops meaning mere accumulation.*

- Growth that means something
  - The good life is a verb
  - The walking
  - *Abel & Tara: closing scene*
- 

## Part Two — Practice (*in progress*)

*The same arrow, now walked — outward through widening circles: from the moral inheritance we start in, to the self, to the “we,” to the whole living world and the open future. Its sections and chapters are **named rather than numbered**, because Part Two is a living collection that will grow as the world does.*

### The Inheritance

*Every moral tradition humanity has built — religious, indigenous, philosophical, and the newest movements — was already reaching the same way: morality as ongoing cultural evolution, never a finished code and never a final destination.*

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### **The Self**

*The inner walking: re-cohering the narrow, ancient drives we were born with, and what a flourishing life comes to once we stop chasing the “when.”*

- The Old Wiring — when our primitive values misguide us
- Eudaimonia — the good life up close

### **The We**

*The collective walking: deciding together across the long horizon, and the traps that pull a “we” inward instead of out.*

- Community, Decision-Making & the Long View
- The Traps — Moloch and the anarchy of nations
- Joint Security across levels of agency

### **The Process**

*The widest circle, and the architecture that keeps it open: what we owe the living world and the generations to come, resolving into a coherent pluralism that stays whole without being flattened into one.*

- Caring Across Time — ecology, descendants, and the Cathedral Mindset
- Coherent Pluralism — a network of networks

## The Arrow Forward

*A future we make by walking it — open-ended growth toward increasing coherence over an ever-widening reach, and why that is not, and must not be, an Omega Point.*

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## Supplemental

*The workshop made public — named, essay-like deep-dives and the hard cases met honestly, a collection that grows over time. Followed by the Glossary and the End Notes.*

- **Supplemental essays** — the foundations (perspectival realism, constructivism, functionalism); complexification and progress; agency; the is/ought and naturalistic fallacies; comparative metaethics; and the “AoM and ...” clarifications and objections — the open problems named honestly: comparing degrees of coherence, keeping effective people from becoming efficiently terrible, the disagreements that refuse to dissolve.
- **Glossary** — *forthcoming*
- **End Notes** — sources, scholarly context, and the author’s longer asides, one section per chapter (unmarked in the text; keyed by quoted phrase).

## Back Matter

- **About the AoM Project** — the project’s twenty-year history, the author’s background and motivation, where it is headed and why,

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its hoped contribution, and the human–AI partnership and multiple-edition design behind it.

- **Acknowledgements** — *forthcoming*
- **Colophon** — a note on the making: one canonical source, many editions, a human–AI partnership.

# Introduction — The Restless Arrow

*Why Morality Was Never a Destination*

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## Two minds about right and wrong

Consider the comfortable certainty with which we condemn things our great-grandparents found unremarkable, and the matching ease with which we assume our great-grandchildren will condemn us. Both convictions are sincere. Held together, they amount to very nearly a contradiction — and that contradiction is where our moral lives get interesting.

The first conviction says that morality has *improved*: that we can look back across the centuries at slavery, at torture as public entertainment, at the casual ownership of wives and the leaving of unwanted infants outdoors to die, and judge — not merely dislike, but *judge* — that these were wrong, and that recognizing their wrongness was a genuine advance. The second conviction says that our own certainties are no safer than anyone else's, that we too are standing inside a moment that will look quaint or monstrous from far enough away. Many thoughtful people carry both convictions comfortably, switching between them without noticing the switch. In a broad-minded mood, we say morality is relative to time and place. Outraged, we say cruelty is simply *wrong*, and would have been wrong wherever and whenever it occurred.

*Introduction — The Restless Arrow*

You cannot have both, at least not without some hard thinking. If morality is merely changing — if it is a kind of fashion in conduct, no truer in one era than in another — then moral outrage is a confusion, like being indignant that other people prefer a different color. But if morality is genuinely *improving*, then it must be improving toward something — and naming that something is the oldest trap in the subject. Name a fixed standard, and you have to say where it came from, and why anyone who lived before it, or far from it, was bound by it. Refuse to name one, and you have sawed off the branch you were sitting on, because now there is no vantage left from which to call anything wrong at all.

There is a third possibility, and it is what this book is about. It is not a clever halfway house between the two horns — “morality is *sort of* relative and *sort of* absolute” — but a different account of what the question was asking in the first place. The trouble, I will argue, is not that we have failed to locate morality’s true target. The trouble is the assumption that morality *has* a target — a place it is trying to reach — rather than a direction it is trying to go.

That distinction will carry a great deal of weight, so it is worth pausing on the difference between a place and a direction. A place is somewhere you can arrive and then be done. A direction is something you can follow from anywhere, indefinitely, without ever arriving — and which nonetheless lets you say, at every step, whether you are moving the right way. “North” is not a destination; no traveler reaches North, plants a flag, and retires. But “north” is not therefore meaningless or arbitrary. From any point on the earth you can ask which way is north and get a single, determinate answer, and you can tell whether your last step took you nearer to it or further away. My claim is that *good* behaves far more like north than like a city — and that nearly every difficulty in moral philosophy comes from rummaging for a destination when what we needed all along was a compass.

## **The trouble with maps that don't move**

For most of recorded history, serious thinking about right and wrong has run in three deep channels, each a sincere answer to a single question: *what makes an act good?*

One answer points to **consequences**: an act is good if it brings about good outcomes — more flourishing, less suffering. A second points to **rules**: an act is good if it honors a duty that holds regardless of outcome — keep your promises, do not treat a person as a mere tool. A third points to **character**: an act is good if it is what a generous, courageous, honest person would do. Each tradition is the distillate of centuries of careful argument, and each has hold of something real. I have no wish to knock them down; much of what follows quietly stands on their shoulders. But lean any one of them hard against a difficult case and watch what gives.

Picture an act of cruelty carried out with perfect efficiency — every resource optimized, every step well-chosen, in the service of an end almost anyone would call monstrous. The consequentialist reaches for the ledger and finds that “good outcomes” depends entirely on whose outcomes are tallied, over what stretch of time, and that the full consequences of anything are mostly hidden from us in advance. But you need not summon a monster to make the other two stumble; an ordinary hard case will do. The rule-follower reaches for a principle and finds that every rule, however wise, eventually meets the situation that makes it absurd, and that for every rule a sufficiently clever mind can find the loophole. The character theorist asks what a virtuous person would do, and discovers that virtuous people — real ones — disagree, that courage can pull against prudence and mercy against justice, with no virtue available to umpire the others.

It is tempting to treat these as separate breakdowns to be patched separately. I think they are the same breakdown wearing three costumes. Each tradition tries to anchor morality to something that holds still — a fixed measure of good outcomes, a fixed rule, a fixed ideal of character — and then apply that fixed thing to a world that will not hold still for

anyone. Circumstances shift. Knowledge grows. The scale of our actions swells until a choice that was harmless among a hundred people becomes catastrophic among a billion. New kinds of agents appear that no rule anticipated. A fixed anchor in a moving world does not steady the ship; it drags it. The famous paradoxes of ethics, the ones that fill the seminar rooms, are not flaws in these three systems so much as the sound a rigid frame makes when reality moves underneath it.

There is a deeper reason no fixed answer can be the final one — a small regress, and it is worth a moment because it does real work later. Suppose someone hands you the true and final standard of the good — the genuine article, whatever it is. You are entitled to ask of it the same question it was invented to answer: *and is that standard itself good?* If the honest reply is “yes, because it leads to such-and-such further good,” then the standard was not final after all; the further good was. And you can ask the question again of *that*. Any standard we could write down today would be a snapshot — a thing fixed in our present understanding, cut off from whatever we will come to understand tomorrow — and so it would always be possible, and reasonable, to stand a little further out and ask whether the snapshot had it right. A target you can always sensibly aim past is not really a target. This regress is fatal to the search for a final destination. It is perfectly harmless — even friendly — to the search for a *direction*.

## **From a place to a direction**

So let us change the question. Instead of asking *what is the Good* — as if it were an object to be located, pinned, and then measured against — ask what moral improvement actually looks like while it is happening.

This is not a dodge; it is the move that rescued the study of life. For a long time people asked what the essence of a living thing was, and got nowhere, because they were hunting for a substance — a spark, a vital fluid, some stuff that living matter had and dead matter lacked. The

*From a place to a direction*

breakthrough came from asking instead what life *does*: how it persists, adapts, reproduces, repairs itself, evolves. Life turned out to be far better understood as a process than as a possession. I want to suggest that morality is the same kind of case. Not a substance to be located but a process to be recognized — the process by which any agent, of any kind, gets better at the hard work of living well among others in a world it only partly understands.

Here, then, is the proposal, in a single sentence you are welcome to distrust for now and asked only to remember:

Morality is the drive toward increasing coherence of what we value and how we act, across an ever-widening reach of concern — and an act or a life is more moral the further it carries that drive, less moral the more it betrays it.

Every load-bearing word in that sentence — *coherence, value, reach* — is a promissory note I will spend the rest of the book redeeming, slowly, with help from evolution, from the study of minds, and from a fair amount of plain looking. For now I want only the shape of the thing to be visible. To become more moral, on this view, is not to arrive anywhere. It is to make what you care about more consistent and more deeply understood; to make the ways you pursue it more capable and more far-reaching; and — this is the part that does the heavy lifting — to do both across a *widening* circle rather than a shrinking one. Then to learn from what happens, and go again.

Notice what this restores — the very thing the fixed-standard view kept losing: the ability to be *wrong and to find out*. If morality had a final destination, being wrong would mean missing it; and since no one can see that destination, no one could ever be sure whether they had missed it. You would be lost with no way to tell that you were lost. But you do not need to see the North Pole to know you have wandered off course; you need only a compass and the willingness to consult it. The compass here is what actually happens when we act: the consequences we did not

intend, the perspectives we left out, the contradictions in our own values that surface only under pressure. We are not measuring ourselves against a destination we cannot see. We are checking, step by step, whether we are still heading outward.

If that sounds as though it gives away too much — as though, by surrendering the fixed target, we have surrendered the right to call anything truly wrong — then you have arrived precisely where you should, holding precisely the objection the next section exists to answer.

## **Why this is not “anything goes”**

The worry is natural and it is serious. If there is no final standard, only a “direction,” then isn’t each of us free to point our own arrow wherever we like, and isn’t this just relativism wearing a more confident coat?

No — and the reason comes in two parts, each of which gets a full chapter later, so here I will only show their shape.

The first part is that we do not, in fact, start out pointed in random directions. It is tempting to imagine that without a fixed standard every agent’s values fly off independently, so that no two could ever truly meet. But that is not our situation and never has been. We are the products of a long shared history — evolutionary and developmental — and we arrive already caring about many of the same things, because creatures built like us, raised among others like us, reliably come to care about safety and belonging, about fairness and kindness, about the people near to them. Picture a tree. The disagreeing parties are leaves at the tips of the outermost branches, each reaching into its own private corner of the possible; out there, at the very tips, we differ, sometimes violently. But trace any two leaves back toward the trunk and the branches that carry them join — sooner than you would guess — at some thicker limb they share. The deeper you go toward the root, toward the plain facts of being a vulnerable, social, mortal creature in a physical world, the more we turn

Why this is not “anything goes”

out to have in common. Agreement, on this picture, is not a miracle pulled from nowhere. It is the patient work of tracing back to a branch that already holds us both. We do not have to invent common ground. We have to find it.

The second part is sharper, and it is what keeps this whole framework from collapsing into “anything goes.” Remember that a direction has a forward *and a backward*. The proposal is that morality runs toward greater coherence across a *widening* reach. The mirror image of that — the unmistakable signature of its opposite — is greater coherence across a *shrinking* one. And here we meet one of the most useful and least comfortable ideas in the book, so it is worth savoring the twist. We tend to admire coherence; a worldview without contradictions feels like an achievement. But notice how the most airtight worldviews get that way. A cult achieves its eerie internal consistency by sealing itself off — by treating every inconvenient fact as an attack, every outside voice as an enemy, until nothing is left that could possibly contradict the doctrine. An echo chamber, a conspiracy theory, a hardening ideology: each grows *more* coherent precisely by caring about *less*, by narrowing the world it will admit until the picture can no longer be disturbed. That is coherence bought by amputation. It is the arrow running in reverse, and the more perfect the consistency, the more complete the reversal. So this framework is anything but permissive. It draws a clear line between better and worse; it simply draws that line through the *shape* of the process — is your circle of concern widening or narrowing, are you taking in more of reality or walling it out — rather than through any fixed creed. A morality with no fixed bedrock can still tell a saint from a fanatic, and this is how.

That is also why the view is not a relativism. Relativism says there is no standard that reaches across perspectives; absolutism says there is one fixed standard, the same for everyone, readable from no particular vantage at all. This book lives between them, and is at home there. There is a standard — the direction — and it genuinely reaches across perspectives, because we share a world and a heritage. But it is not a single fixed truth handed down from nowhere; it is something we approach, together, from

where we each happen to stand. Reality is real, and our views of it are always *somebody's* views. Both halves of that sentence matter, and most of the trouble in ethics has come from keeping one and dropping the other.

## What you get for the trade

It is fair to ask what all this reframing is *for*. Why give up the familiar furniture of fixed rules and final goods for a stranger arrangement?

Two reasons, and I will name them plainly so you can hold me to them.

The first is honesty about foundations. The older frameworks ultimately rest on claims that are very hard to defend and impossible to check: that there exists, somewhere, an objective Good, or a set of duties woven into the fabric of things, or a fixed roster of virtues valid for all people in all times. You either accept these foundations or you don't, and reasonable people have talked past one another about them for millennia. The view in this book asks you to accept far less. It grounds morality in processes you can actually watch — agents learning, adapting, refining what they value, finding and losing common ground. You do not have to take a metaphysical leap to see those processes; you can see them in a child working out fairness on a playground, in a profession revising its ethics after a scandal, in a civilization slowly enlarging the set of beings it is ashamed to mistreat.

The second is reach. Because the view is built from process rather than fixed content, it keeps working when the world does something genuinely new — which the world has an inconvenient habit of doing. A morality conceived as a list of rules struggles the moment it meets a situation no rule anticipated. A morality conceived as a direction has something to say about any situation at all, because it was never a list; it was a way of telling which way is forward. This matters more each year. We are now building artificial agents — systems that pursue goals, weigh options, and act at enormous scale — and we are discovering that the urgent question

about them is not the one the old frameworks know how to ask. It is not “which rules did we install?” but the very question this view is shaped around: *whose values, made coherent in what way, across how wide a reach of concern?* A morality that speaks only the language of human virtue or human rules has little to say to a genuinely new kind of mind. A morality that speaks the language of agency itself has a great deal to say, to any agent we might meet or make.

I will be careful not to oversell. The same breadth that makes this view powerful also makes demands of its own, and it raises hard problems I have no intention of hiding — how to compare degrees of coherence, how to keep effective people from becoming efficiently terrible, how to handle the disagreements that refuse to dissolve. Those reckonings have their place later in the book, and when we reach the difficult cases I will walk you straight into them rather than around. But I want the prize visible from the start: a way of thinking about right and wrong that is honest about where it stands and supple enough to travel into the situations we are actually walking into.

## **How to travel this book**

A word on the route ahead, so you can keep your bearings.

The book comes in two parts. The first builds the machinery, and it starts further back than you might expect — with evolution, and with the way order and novelty arise in complicated systems of every kind — because morality, I will argue, is continuous with those deeper processes rather than a special exception to them. From there we turn to what it is to be an agent at all: a self with a particular window on the world; an agent that comes to model both what matters to it and what works for it; the way meaning gets made from context; the way single agents combine into families, communities, and whole cultures that act, in their turn, as agents themselves. Only once all of that is in hand will I define morality outright,

## *Introduction — The Restless Arrow*

and the one-sentence claim from a few pages ago will, I hope, have stopped reading like a promissory note and started reading like something you can see for yourself.

The second part puts the machinery to work — on foresight and the long future, on the genuinely hard labor of deciding things together, on what it might mean to live well, and on how whole cultures learn and change. A theory that never touches the ground is not worth much; the second part is where the arrow meets the road.

Throughout, you will keep company with two people, Abel and Tara. They are not decoration. They argue, they object, they refuse to let a tidy claim pass unexamined, and they will say out loud the doubts you are likely to be having at the time. I have put them there because I do not want you to take any of this on faith, and a good argument between two honest people is the oldest device we have for making sure you don't have to.

## **An invitation**

Let me end where we began, with the two minds we are of about right and wrong.

*Are we getting better, or only changing?* The answer this book offers is: both — and “both” stops being a contradiction the instant “better” means *heading outward* rather than *arriving*. Yes, we are only changing, in the sense that there is no final destination we are nearing, no bell that rings when morality is finished. And yes, we are genuinely improving, in the sense that there is a direction — wider concern, deeper coherence, more capable and more inclusive care — and we can tell, in any particular case, whether we are traveling along it or sliding back. The history of our morals really is two steps forward and one step back, exactly as it looks from the outside. But the arrow holds its heading through all the stumbling, and that is enough. It is, in fact, all we have ever had.

Which leaves one last thing to say before we begin in earnest. If morality is a process and not a possession — a direction we travel rather than a code we were issued — then it is not something that merely happens to us. It is work we do. Every agent that values anything and acts on it is already, with every choice, nudging the arrow one way or the other. The argument of this book is that we can do that work far better by doing it on purpose: by understanding the process we are already part of, and choosing, with open eyes, to widen rather than to wall off. That is the invitation — not a verdict about what is good, handed down for you to obey, but a clearer view of the work you are already doing, and a case that taking it up deliberately may be the most consequential thing a thinking creature, of any kind, can choose to do.

So: morality is the drive toward increasing coherence of what we value and how we act, across an ever-widening reach of concern.

Let us see whether that is true.

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# Chapter 1 — Where “Better” Comes From

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## A world made of three signals

A tick, waiting on the tip of a grass blade, lives in a world made of almost nothing. It cannot see the meadow around it, cannot hear the birds, has no notion of the summer afternoon. Its entire world — the whole of what it can detect and act upon — is built from three things: the smell of butyric acid, which seeps from the skin of warm-blooded animals; a particular warmth; and the rough texture of hair or skin against which it can burrow. When the smell arrives, the tick lets go and drops. If it lands on something warm, it searches for a bare patch. If it finds one, it bites. Everything else that we would call the world simply does not exist for the tick. It is not that the tick perceives the meadow dimly. The meadow is not in its world at all.

Biologists have a name for this: an animal’s *Umwelt*, the slice of reality that its senses and its needs disclose to it. The tick’s *Umwelt* has three notes in it. A dog’s is a vast and shifting landscape of scent, a world of information layered along every sidewalk that we, walking the same street, never enter. Our own *Umwelt* feels complete to us, seamless and total, the way every *Umwelt* feels complete from the inside — and it is a thin band of light, a narrow range of sound, a handful of chemicals on the

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tongue, assembled by the brain into something we are confident is simply *the world*.

I begin here because of a promise I need to make at the outset and keep for the rest of the book. Everything that follows — including the account of evolution and physics I am about to give you in this very chapter — is told from a perspective. It is our best current map, drawn by a particular kind of creature with particular instruments, and not a god’s-eye view read directly off the face of reality. This is not an apology, and it is not the opening move of some argument that nothing is real or nothing can be known. The tick’s three-signal world is *about* something; the butyric acid is really there. The map tracks the territory. But it is a map, made by a mapmaker who stands somewhere. Hold on to that. It will turn out to matter more than almost anything else.

### Where does “better” come from?

Now the question this chapter exists to answer, and it is a hard one. In the Introduction I claimed that morality is a direction — a drive toward greater coherence of what we value and how we act, across a widening reach of concern. But step back and look at the universe the physicist describes, and a doubt arrives that can swallow the whole project before it starts. That universe is particles and forces. It is fields and energy and a long, patient slide toward disorder. Nowhere in any equation is there a term for *better*. The cosmos does not appear to care, in the most literal sense: there is nothing it is for, no outcome it prefers, no state of affairs it is trying to reach. So where, in all of that blind machinery, does *better* come from? Where does anything come to *matter* at all?

There are two tempting answers, and both are traps. The first is to say that value is woven into the fabric of things — that goodness is out there in the universe the way mass and charge are, waiting to be discovered. This is comforting and very old, but no one has ever been able to say

where in the physics such a thing would live, or how we would detect it, and the more closely you look the more it dissolves. The second answer gives up and says the opposite: that value is a fiction, a warm coat the human mind throws over a cold and indifferent reality, real only in the sense that our feelings are real. This sounds tough-minded and modern, but notice what it costs. If value is only a human projection, then the whole of this book is a record of preferences, no truer than a fondness for one color over another, and the moral progress we are sure we can see — the slow recognition that other people are not property, that children are not chattel to be discarded at a parent's convenience, that torture is not fit public entertainment — was never progress at all, only change.

I think both answers are wrong, and that the truth lies along a path neither of them looks down. To find it we have to stop asking where *value* is hiding in the universe, as if it were a missing object, and ask instead how, in a universe that started without it, value could ever have *come to be*. That is a question about a process. And the universe, it turns out, is extraordinarily good at processes.

## **Order for the asking**

Start with the thing the doubt got wrong. We tend to imagine that order is rare and precious, a fragile exception clawed out against a cosmos hell-bent on dissolution. The second law of thermodynamics, half-remembered from school, tells us everything runs down, and so we picture structure as a kind of heroic resistance, always temporary, always uphill.

But this is not how it actually goes, and the exception is so common we mostly fail to see it. Pour energy through a system — keep it flowing, keep the system away from the dead flat calm of equilibrium — and order does not have to be imposed on it from outside. It *arises*, on its own, for free. Heat a shallow pan of oil and the smooth liquid will spontaneously organize itself into a tidy mosaic of convection cells, each one a little

wheel of circulating fluid, a pattern no one drew. Let water run from a basin and it gathers itself into a whirlpool, a structure with a shape and a persistence, conjured out of nothing but flow. These patterns are not violations of the great running-down. They are how the running-down happens, when energy pours through a system fast enough: the system discovers that building a bit of structure is a more efficient way to dissipate the flow, and so the structure builds itself.

This is worth sitting with, because it quietly rewrites the starting conditions of our puzzle. We are not standing in a barren cosmos wondering how it could ever contain anything but drifting dust. We are standing in a cosmos that *reliably manufactures pattern* wherever energy runs downhill through matter — a cosmos in which organized, self-reinforcing structure is not the miracle but the going rate. The raw material of everything to come, including value, is already on the table. The question is no longer whether order can arise. It is what happens once order starts building on itself.

## How novelty compounds

Here is what happens. When simpler things combine, the combination can sometimes do what none of its parts could do alone — not merely more of the same, but something genuinely new. Two hydrogen atoms and an oxygen atom make water, and water is wet,<sup>1</sup> a property neither hydrogen nor oxygen possesses or even hints at. This is the quiet engine that drives the whole ascent: parts come together and yield a capability that is more than their sum, and that new capability becomes a new thing the world can build *on*.

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<sup>1</sup>Strictly, a lone water molecule is not “wet” — wetness is a behaviour of many molecules together, an emergent property the parts simply don’t have. The example quietly smuggles in the very point it is making.

Call this combining-into-more by its plain name: synergy. Synergy generates novelty — it throws up genuinely new arrangements with genuinely new powers. And then a second process goes to work on the novelty, sifting it: whatever happens to hold together, to persist, to function, stays in the game and becomes a platform for the next round, while whatever falls apart is quietly removed from the story. Novelty proposes; persistence disposes. Run that loop — synergy generating, persistence selecting — over enough time, and complexity does not merely accumulate. It compounds.

And compounding is faster than we tend to assume, because of a feature worth flagging now and returning to much later. As a system grows and reaches further, the *surface* on which it can form new combinations grows faster than the system itself. Each new capability does not just add one more thing; it opens a whole new set of possible pairings with everything already present. The more a system can already do, the more new things it can reach for — the more, as it were, it can ask of the world. For now I want only the bright side of this in view: reach is generative, and it compounds. The bill that comes with it — the labor of holding all that new richness together — we will not be able to ignore forever, and we will face it squarely in the chapter on selves made of selves, where we ask how large an agent can grow before the labor of staying coherent overtakes the gains of reaching further. Here, the point is simply that the universe, given throughput, builds; and that what it builds becomes the scaffold for building more.

## **A candle and a cell**

We can now climb to the rung where our puzzle finally cracks open. Follow the compounding upward until you reach a particular and remarkable kind of pattern: one that does not merely *form* and persist for a while, like a whirlpool, but one that actively *works to keep itself in existence*. To see

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what is special about it, set two self-sustaining things side by side and look hard at the difference.

Take a candle flame. A flame is a real and rather impressive self-sustaining process. It holds a stable shape far from equilibrium, it draws in its own fuel and oxygen, it sustains the very conditions — the heat — that keep it burning, and it will even repair itself after a fashion, steadying again after a puff of air disturbs it. By the loose standards we have used so far, it is a little engine of self-maintenance. And yet, for all that, there is nothing it is like to be a candle flame, and nothing is at stake for it. Snuff it out and it is simply gone, having lost nothing, because there was never anything it was working *on its own behalf* to protect. The flame maintains a process. It does not maintain a self.

Now take a single living cell. It, too, holds itself far from equilibrium; it, too, draws in fuel and sustains its own conditions. But it does something the flame does not. It works to maintain its own *boundary* — the thin membrane that marks where it ends and the world begins — and to keep its insides in the narrow range of states in which it can go on living, against everything the surroundings do to push it elsewhere. And it *acts*. A bacterium, tumbling through a drop of water, will sense a faint gradient of nutrient and steer itself up it; will sense a trace of toxin and turn away. It is not being pushed around like the oil in the pan. It is, in the most stripped-down and literal way, *doing something about its situation* — moving toward what sustains it and away from what destroys it.

And there, in that small purposeful swerve, something enters the universe that was not there before. For the cell, and not for the flame, the world has *divided in two*: into what helps it persist and what harms it. The nutrient is good — not good in some cosmic ledger, but good *for this cell*, good in relation to its struggle to keep being itself. The toxin is bad in exactly the same relational sense. That division — helps me, harms me — is the first and most minimal form of *value* anywhere in the story. It is not painted onto the universe by a human mind looking on; the bacterium was sorting its world into help and harm long before any mind existed to have opinions

about it. And it is not a free-floating fact hovering in the equations; it exists only *for* an agent with something at stake. The bacterium climbing its gradient is the thing we were looking for. It is mattering, made visible — value expressed as motion.

This is the answer to the puzzle, and I want to state it cleanly. The universe does not *contain* values the way it contains atoms, sitting there to be found. Nor does it borrow them from us. It *grows* them — the very moment some scrap of matter organizes itself into a process with skin in the game. Value is as natural as metabolism, and it arrives by the same door: with the existence of something that must act to keep itself in being.

Two things before we go on, so I am not misunderstood. First, to say the cell *values* is not to say the cell *feels*. I am pointing at a functional fact — the help-and-harm distinction that genuinely exists for a self-maintaining thing — not crediting the bacterium with an inner life, hopes, or suffering. Felt experience is a far richer kind of mattering, and it arrives much later and much higher up; we will have a great deal to say about it, but not by smuggling it in here. Second, the cell is only the nearest handhold, the most vivid example I can offer. Nothing in the argument depends on its being a *cell*. What does the work is self-maintenance as such — the bare fact of a process that must act to preserve itself. Wherever that appears, at any scale and in any material, value appears with it. (And keep an eye on our bacterium. We will watch it climb — from a single cell, to colonies, to bodies, to the strange large selves that are communities and cultures — and it will have a good deal to teach us on the way.)

## **The outward reach**

One more move and the ground for the whole book is laid. Self-maintaining things, it turns out, rarely just hold station. The same restlessness that sends the bacterium up a gradient sends living systems, over time, to probe

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the edges of what their position newly makes possible — and every edge they reach reveals further edges beyond it. A capacity that evolved for one purpose gets borrowed for another; a niche that opens lets in creatures that open niches of their own; each step into the possible enlarges the space of the next step. Possibility itself expands as it is explored.

This is where the *outwardness* of the arrow gets its first, deep root. When the Introduction spoke of morality reaching across an ever-widening circle, that was not a preference smuggled in from somewhere, a value I happen to like and hope you will too. It is the native direction of travel for things that persist by exploring. Life does not merely keep itself going; it keeps reaching, and the reaching keeps opening more world to reach into. (Whether that reach is a smooth guaranteed ladder is another matter — it is not, and the stumbles will concern us later. The point now is only the tendency, and its source.)

### **The same old story**

Let me gather the threads, because the pattern they make is the reason for the chapter. We have watched the universe, given nothing but energy and time, build order for free. We have watched order compound itself through synergy and selection into ever more capable forms. We have watched value — real, relational, unprojected value — switch on the moment a process began working to keep itself alive. And we have watched such processes reach outward into a possibility space that widens as they explore it.

Now the claim that all of this has been building toward, stated plainly. These dynamics do not stop when the story reaches us. They are not a ladder we climbed and then kicked away on arriving at the human, the cultural, the moral. Scaled up — into creatures that can model their own values, weigh their own methods, share a world through language, and take responsibility for the widening circle they belong to — these

very same dynamics *become the thing we call morality*. Morality is not a separate magisterium bolted onto a valueless cosmos, nor a code lowered down from outside of nature. It is the latest and most self-aware chapter of an extremely old story about how coherent, valuing order grows over an enlarging world. We are not the exception to the universe's long ascent. We are, for the moment and so far as we know, its leading edge.

I have to be careful here, more careful than anywhere else in the chapter, because there is a famous trap a few steps to my left and I have no intention of falling into it. I have shown you, I hope, where *value* comes from, and where a perfectly natural sense of *better* comes from: better *for* the persistence and flourishing of an agent in its world. I have **not** shown you what anyone *ought* to do, and I am not going to pretend the one follows from the other by some quick deduction. The move from “this is what is better for agents” to “this is what we are obliged to do” is real, but it is delicate, and it has to be earned slowly, with the full machinery of agency, perspective, and agreement in hand. That is a later chapter's work, and when we come to it I will not rush it. The claim *here* is the more modest and more foundational one: that morality is cut from the same cloth as the rest of the emerging order, not from some other bolt entirely. We have found the loom. We have not yet woven the garment.

## **A map, not a mirror**

And notice, before we move on, the small thing that just happened in the telling. I have spent a chapter handing you a confident account of how the universe builds value — and I asked you, on the first page, to hold all of it as a map made from a perspective. Both of those are true at once, and their being true at once is itself a lesson, the first of several the book will keep returning to. Knowledge of this kind is not the discovery of a final Truth we could lift clean off the universe and check against the original. It is the building, and the patient rebuilding, of a better map — one we trust not because it mirrors reality perfectly from nowhere, but because it

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keeps letting us find our way around the territory it describes. The tick’s three signals are a map. Ours is a richer one. Neither is the world itself. The difference between a good map and a bad one is not that the good one finally stopped being a map; it is that it takes us where it says it will.

We now have what we came for. The universe can grow value-laden, exploring order, and morality belongs to that lineage. But to see *how* such order ripens into something we would recognize as moral, we have to stop looking at the long sweep from outside and look closely, instead, at the strange thing standing in the middle of it: an agent — a self with a world, building that world from a perspective, coming to care about some things and to act, with more or less skill, on what it cares about. That is the next chapter, and the rest of Part One.

### At the shelter

It was nearly closing time at the animal shelter when Abel, who had come to walk Tara back to her car and had been talked into waiting, found her kneeling on the concrete floor in front of a wire crate, holding a dropper of warm formula to the mouth of the smallest, sorriest scrap of a kitten he had ever seen. It could not have weighed half a pound. Its eyes were barely open. It was trembling with the sheer effort of staying alive, and it was drinking — fiercely, greedily, with its whole ruined little body — as though it had decided, against all available evidence, to keep going.

Abel watched for a while in his usual silence. Then he said, in the tone he used when something had genuinely interested him, “Do you realize that what you’re looking at is, in a sense, the universe growing a value out of bare matter? That struggle — that *insistence* on persisting — is more or less the exact moment that mattering enters the —”

“Abel.” Tara did not look up. “I swear, if you give me a lecture about the universe right now, I will make you hold the dropper.”

He stopped.

“This is Soup,” she said, after a moment, more gently. “Somebody left him in a shoebox by the gate. He’s been trying to die since Tuesday and he keeps deciding not to. So.” She steadied the kitten’s head with one finger. “I don’t need him to be a moment in anything. I need him to finish the bottle.”

For a while Abel said nothing at all, which for him was a kind of recalibration. When he spoke again it was slower, and the grand vocabulary was gone. “All right,” he said. “Forget the universe. Just — that. What he’s doing right now, fighting for the next swallow. There’s a candle on the windowsill behind you, burning. It’s keeping itself going too, in its way; it pulls in air, it holds its shape. But if I pinch it out, nothing has been *wronged*. Nothing was at stake for the flame.” He nodded at the crate. “Him, though. For him, the world is split clean down the middle — into what helps and what hurts. That split is the whole thing. That’s where it starts.”

Tara was quiet. The kitten drained the dropper and, with great dignity, fell asleep mid-swallow. “Okay,” she admitted. “That part I’ll give you. There’s a difference between Soup and a candle, and the difference is that Soup *minds*.” She looked at Abel sidelong. “But don’t you dare tell me he’s just chemistry. He’s scared. He’s *relieved* right now. You can feel it coming off him.”

“I didn’t say chemistry,” Abel said carefully — and here, for once, he chose not to win the point. “I said this is where it begins. Whether what he’s feeling is something more than the beginning —” he paused, and she watched him decline to finish the sentence, file it away instead, the way he did with the questions he respected. “That’s a bigger conversation.”

The kitten snored, microscopically. Tara wrapped him in a corner of towel and the two of them stayed there a minute longer than they needed to, looking at half a pound of stubborn life that had no idea it had just settled an argument that philosophers had been losing for centuries.

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“So if this is where it starts,” Tara said finally, switching off the light over the crates, “where does it *go*? He’s barely a smudge. People are —” she gestured, taking in the parking lot, the city, the whole noisy difficult species. “People are this, times a billion, all minding different things at once and tripping over each other. How do you get from *him* to *that*?”

Abel held the door for her. “That,” he said, “is more or less the only question I have ever found interesting.”

They walked out into the dark, neither of them entirely sure of the answer — which was, as it happened, exactly the right place to begin.

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## Chapter 2 — The View From Somewhere

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### Custom is king

The historian Herodotus tells a story about the Persian king Darius, who liked to probe the certainties of the people around him. He once asked a group of Greeks what it would take for them to eat the bodies of their dead fathers. The Greeks were appalled; no sum of money, they said, could induce them to do such a thing. Darius then summoned a people called the Callatiae, who did in fact eat their dead, and asked them — with the horrified Greeks listening — what price would persuade them to *burn* their fathers' bodies instead. The Callatiae cried out at the suggestion and begged him not to speak of such an abomination.

Each people was certain. Each was not merely expressing a preference but registering genuine moral horror — the recoil you feel not when someone chooses a food you dislike but when they propose something *desecrating*. And each found the other's deepest piety obscene. Herodotus draws the lesson that has tempted observers ever since: custom, he says, is king of all.

It is a story worth keeping in view, because it states our problem in its sharpest form. If the Greek sees from inside the Greek world and the Callatian from inside his own, and each world comes complete with its

## Chapter 2 — *The View From Somewhere*

own certainties, then on what ground could anyone stand to say that one of them is *right* — that burning is better than eating, or the reverse? “Who’s to say?” feels less like a question here than like the honest end of the conversation.

And yet we do not, in the end, believe that the conversation ends there. We believe some moral changes have been *improvements* and not just changes — that the slow abandonment of slavery, say, was not the swapping of one custom for an equally good one. The Introduction leaned hard on that belief; it claimed that beneath our disagreements we share a world and a heritage, and can find our way to common ground. The Herodotus story is the bill come due. Before we can talk about morality at all, we have to face the possibility that every moral view is simply the view from *somewhere*, and that there is no somewhere that counts as the one right place to stand.

I am going to argue that there is a third option, neither “one right answer visible from nowhere” nor “no answer at all” — and, oddly, that finding it is not first a question about morality. It is a question about how any creature knows anything, and how anything comes to *mean* anything. Get those right and the moral puzzle loosens on its own. This chapter builds the floor that the rest of the book stands on. It is the most abstract ground we will cover, so I will keep one hand on something solid the whole way.

### **The window**

Start with the tick from the last chapter, waiting on its grass blade in a world made of three signals. The tick is not getting a poor, low-resolution version of the meadow you and I can see. It is getting *the tick’s world* — the slice of reality that its body and its needs lay open to it — and that world is, for the tick, complete. Add the dog, moving through a landscape of scent every bit as rich and detailed as our landscape of sight — most of it beyond anything our own noses can recover, as much of the fine grain

of our visual world is beyond the dog's. Then add ourselves, and notice the thing that is genuinely hard to notice: our world feels complete and seamless and total to us in *exactly* the way the tick's does to the tick. It is a thin ribbon of light, a narrow band of sound, a few classes of chemical on the tongue, knit by the brain into something we are utterly confident is just *the world, plainly seen*.

Here is the image I want to give you for this, because we will lean on it for the rest of the book. Think of perception — and beyond perception, all of knowing — as looking through a **window**.

A window is the right picture for two reasons, and it is important to hold both at once, because almost every confusion in this area comes from gripping one and dropping the other. First, a window genuinely shows you *the world outside*. It is not a painting of an imagined landscape; it is not a screen showing you your own reflection. What you see through it is really out there. The butyric acid the tick smells is really on the air. Reality is real, and our windows open onto it. Drop this clause and you slide into the notion that we are each sealed in a private bubble, that there is no shared world at all — and that way lies the idea that the Greek and the Callatian inhabit different universes with nothing to say to each other.

But second — and just as firmly — a window always shows you the world *from where the window is*. There is no window that looks out from everywhere at once, no pane that offers the view from nowhere. Every window has a location, a frame, a particular size and tint of glass. Drop *this* clause and you slip into the opposite error, the dream of a god's-eye view, the fantasy that some specially cleaned window — the right culture, the right method, the right philosophy — finally shows reality as it simply *is*, with no standpoint at all. No one has ever found that window, and the reason is not that we have looked in the wrong places. It is that “a view from nowhere” is not a coherent idea, the way “a map of everywhere at the same scale with no projection” is not a coherent idea.

## Chapter 2 — The View From Somewhere

Call the insistence on both clauses at once *perspectival realism*. Realism, because there is a real world and our views are answerable to it. Perspectival, because there is no view of it except from somewhere. It sounds at first like a compromise, a splitting of the difference. It is not. It is a single claim about what knowing *is*: the contact of a situated creature with a reality larger than its window.

And now watch the move that quietly dismantles the relativist's "who's to say?" before we have even reached the question of morality. If our views were sealed private bubbles, there would indeed be no way to rank them; a bubble is neither right nor wrong, it just is. But windows are not bubbles. Because every window opens onto the *same* world, windows can be **better or worse**. One can be clean and another grimy; one can face the weather and another a brick wall; one can be cracked in a way that bends what comes through it. We compare windows all the time, and not by stepping outside of all windows to some viewless vantage — we have no such option — but by *moving between them*, checking one against another, noticing where a view was distorted because of where it was taken from. A scientist does not escape perspective; she builds reliability out of *many* perspectives, each correcting the blind spots of the others. The cure for the limits of a single standpoint has never been no standpoint. It has always been *more* standpoints, compared.

This is the keystone of the entire book, so let me set it down plainly before we build on it: there is no view from nowhere, and our views are nonetheless answerable to a world we share — which is exactly why some views are better than others, and why creatures looking through different windows can, with work, come to agree about what is really out there.

### **We are not cameras**

A window, though, is too passive an image to leave standing on its own, and if I am not careful it will mislead you in the next step. Looking out

a window sounds like a thing that simply *happens* to you — light arrives, the scene appears. But knowing is not like that. We are not cameras, receiving an image the world prints on us. We are far stranger and more active than that.

What an agent actually does, from its perspective, is *build*. Out of the trickle of signals coming through its window, it assembles a working model — of the world, of the other agents in it, of itself, of what is dangerous and what is nourishing and what can be ignored. And it never stops revising the model. Every prediction that fails, every surprise, every thing that turns out not to be what it seemed, sends a correction back into the model. Perception is less a photograph than a running hypothesis about what is out there, continuously tested against what comes next. We do not so much *see* the world as *guess* it, very fast and very well, and check our guesses by the bump of feedback.

This is the second foundation, and it follows directly from taking the window seriously: if all we ever get is the view from somewhere, then making sense of anything requires *construction* — the active assembly of a model that goes beyond the signals, because the signals alone never add up to a world. Meaning and value are not lying around in the world waiting to be picked up like stones. They are *made* — built by agents out of their contact with reality. (We watched the very first, faintest version of this in the last chapter, when a single cell began sorting its surroundings into help and harm. That sorting was not something the cell *found* written on the world. It was the cell's own doing, the first construction.)

Here we reach the deepest of the quiet shifts this chapter asks of you, and I am going to state it and then immediately make it concrete, because stated baldly it can sound like a riddle. We are used to thinking of a self as a *thing* — a fixed item, a kind of object, that we each *are*, and that then goes around having perspectives and holding values, the way a stone might be carried from place to place. But if a self is the ongoing activity of building and rebuilding a model of itself-in-a-world, then the self is not the stone. It is the carrying. It is something you *do*, continuously,

not something you statically *are*. The kitten from the last chapter was already a tiny instance of this doing — half a pound of process, holding itself together moment by moment. You are an enormous one, a process so vast and so continuous that it mistakes itself for a thing. The self, you might say, is a verb that has learned to wear a noun's clothes.

I want to head off a misreading before it hardens, because it is the same misreading that will dog us all the way to the end of the book. To say that we *build* our models, that meaning and value are *made* and not *found*, sounds dangerously close to saying we make them up — that we are free to build whatever we like, and that one construction is therefore as good as another. It says no such thing, and the reason is already in our hands. We do not build in a vacuum. We build *against* a real world, the same world the window opens onto, and the world pushes back. A model that misreads what is out there gets its builder lost, or killed. Construction is everywhere disciplined by what *works* — by viability, by the bump of feedback, by the difference between a map that takes you to water and one that takes you off a cliff. We will need this point again very soon, in its strongest form. For now, hold the two halves together: we make our models, *and* the world grades them.

## Seeing the edges

There is a third foundation, and it concerns not how we build our models but what they are made of — how an agent grasps the things in its world at all.

Ask what it is to understand something — a knife, a friend, a storm — and the tempting answer is that you have grasped some inner essence it carries around, a hidden kernel of knife-ness or storm-ness. But that is not how understanding actually works, for us or for any creature. We grasp a thing by *what it does* — by what it affords, what it connects to, what it makes possible or forecloses. A knife is a thing that cuts, that can free a

tangled net or open a vein; a storm is a thing that floods the low field and fills the dry cistern. To understand something is, as one of our characters likes to put it, to *see its edges* — to see where its powers begin and end, what it reaches and what it cannot touch. Function first; essence, if there is such a thing at all, a distant second.

This has a consequence that looks small here and turns out to be enormous later, so I will plant it and move on. If a thing is what it *does*, then the same job can in principle be done by very different stuff. What makes a knife a knife is the cutting, not the steel; flint cuts, and so does obsidian, and so does a sharpened disc of ceramic that shares not one atom's arrangement with a blade of iron. Hold that thought lightly. When we reach the question of whether minds, or agents, or moral standing could exist in materials very unlike our own, it will come back with great force.

And here is the second of the deep shifts the chapter asks of you, the companion to the one about the self. We tend to imagine that meaning is a *property things carry inside them* — that a word, a gesture, an object simply *has* its meaning the way it has its mass, so that the meaning would be there whether or not anyone ever encountered it. But meaning is not like mass. Meaning is *relational*: it is what something does *for an agent, in a context*. The same patch of ground means *home* to the family that farms it, *territory* to the survey map, *nothing at all* to the tick three feet away. This is not because meaning is flimsy or unreal — the home is really a home — but because meaning is not a substance sealed inside the object. It lives in the meeting between a thing and an agent that cares. Strip away every creature for whom anything matters, and you do not get a world full of meanings sitting around unobserved. You get a world with no meanings in it at all — only, once again, the patterns of the last chapter, waiting for someone to whom they could matter.

## In context

We now have the three pieces, and the moment to see that they are not three separate doctrines but one idea unfolding. An agent makes sense of its world by *building* a model (that is the constructing), out of what *works* and what things *do* (that is the function), through the only access it has, which is its own situated window (that is the perspective). And it does all of this within a *context* — a setting that fixes what things signify.

Context is not the background scenery of meaning; it is closer to being its engine. The same raised hand means *greeting* in one setting and *threat* in another and *bid* in a third, and there is no fact about the hand, considered in isolation, that settles which. A gift in one context is an insult in another, a sacrament in a third. We are tempted to treat all this as noise to be filtered out on the way to the thing's "real" meaning, but there is no real meaning underneath, waiting to be uncovered once context is stripped away. Strip away the context and you do not reach the pure signal. You reach silence. Meaning is *made by* an agent, *out of* function, *from* a perspective, *within* a context — and that compact phrase, "meaning-making within a context," is a piece of machinery the rest of this book will simply pick up and use. When we come to ask what an agent *values* and how it *acts*, we will be asking about the particular kinds of meaning a creature makes, and the particular contexts that shape them.

Two different things are folded into this one act of construction, and the rest of the book will need them pulled apart. Part of what an agent builds is a sense of *what is going on* — that the shape in the grass is a snake, that the ice will hold, that the stranger means well. Call that *sense-making*: the work of rendering the world intelligible, of getting the situation right enough to move in it. But alongside it, and never quite the same, runs the building of *what it all matters* — that the snake is to be feared, the crossing worth the risk, the stranger's goodwill a small grace in a hard day. Call that *meaning-making*: the work of rendering the world significant, of sorting it into what is worth caring about, and how much. The two lean on

each other — you can hardly weigh what you have not first grasped, and what you care about decides what you trouble to grasp — but they are not the same work, and a person can be superb at one and poor at the other. A con artist makes excellent sense of you while making nothing of your welfare; a grieving parent can feel the whole weight of a loss they cannot yet make any sense of at all. Both are built, both from a perspective, both within a context — and the book will follow each down its own line. The making of *sense* — what is, what works, where a thing's edges lie — becomes, two chapters on, the study of *methods*. The making of *meaning* — what matters, how much, and weighed against what — is the subject of the very next chapter, where we turn to *values*.

## **Made is not arbitrary**

Now the debt comes due, and this is the most important passage in the chapter — perhaps in the first half of the book — so I will not hurry it.

We have said that knowing is perspectival, that meaning and value are constructed, and that meaning is relational rather than built into things. To many ears that trio sounds like a single bad word with three syllables: *relativism*. If every view is from somewhere, every value is made, and every meaning depends on context, then surely we have argued ourselves exactly into Herodotus's corner — surely we have shown that the Greek and the Callatian, each building meaning from his own perspective in his own context, simply have different constructions, neither better than the other, and that “who's to say?” wins after all.

We have shown nothing of the kind, and seeing precisely why is the hinge on which the whole project turns. Three things stand between perspectival realism and “anything goes,” and they are worth naming one at a time.

The first is the shared world. Our constructions are not free-floating fictions answerable only to themselves; they are *windows onto one reality*, and that reality does not care how attached we are to our model of it.

## Chapter 2 — The View From Somewhere

Build a model that misreads what is actually out there and you will walk into the wall the model said was a door. A perspective can be *wrong* — not wrong by failing to match some other perspective, but wrong by failing to match the world both perspectives share. That alone is enough to sink pure relativism, which has to deny that there is any shared anything for a view to be answerable to.

The second is that constructions are *tested*. We do not merely hold our models; we live by them, and living by them is a relentless examination. A way of seeing that does not work — that leaves its holders unable to feed themselves, or to cooperate, or to grieve their dead and go on — does not persist on equal terms with one that does. “Made” is not the opposite of “disciplined.” A cathedral is made and a hovel is made; the difference between them is not that one was discovered and the other invented, but that one answers far better to what a building is for. Constructions are graded by what they make possible, and that grading is not a matter of taste.

The third is that perspectives, looking onto a shared world and tested against it, tend over time to *converge* — and here the Herodotus story turns out to contain its own resolution, if we follow it down far enough. At the surface, at the level of the rite itself, the Greek and the Callatian could not be further apart: one burns, the other eats, and each is sickened by the other. But ask what the rite is *for*, and the distance starts to close. Both peoples are doing something with their dead rather than discarding them like refuse; both are insisting, in the strongest terms their world makes available, that these particular lives *mattered* and that the bond to them survives the body. The horror each feels at the other is not the horror of meeting a creature with no values; it is the horror of seeing one’s own deepest value — *honor the dead* — apparently violated by an unfamiliar form. Trace the branches back toward the root, as the Introduction promised we could, and the two find they were never as far apart as the funeral pyres made them look. They were answering the same real fact — that people die, and that those who loved them must find a way to

## A tripod, not a circle

carry both the grief and the love forward — in the different dialects their different windows allowed.

So put the three together and the charge of relativism simply falls away. Our values are *made*, yes — but made *from a perspective, by what works, against a shared world that pushes back, and converging, as perspectives widen, on what they have in common underneath*. That is not the description of arbitrary preference. It is very nearly the opposite. Relativism says no view answers to anything beyond itself; this book says every view answers to a real world, to the test of what works, and to every other view that shares the world with it. *Made* is not *found* — but neither is it *invented from nothing*. There is a third thing, and almost everything that matters lives there.

I should mark a boundary before we go on, because an eager reader will try to cash this in too early. Nothing I have said yet tells you that burning is better than eating, or settles any moral question at all. I have not been doing ethics in this chapter; I have been laying the floor underneath it — showing that perspectival, constructed, contextual knowing is not the same as moral free-for-all, and that there is therefore *something to be right or wrong about*. What we do with that floor — how a made, tested, converging value becomes the thing we are entitled to call *moral* — is the work of later chapters, and I have no intention of smuggling the conclusion in here under cover of the foundations.

## A tripod, not a circle

One quick worry to disarm, because the sharp reader will already have felt it. These three foundations have been leaning on one another rather conspicuously: perspective made construction necessary, construction needed the discipline of what *works*, what works was cashed out in terms of function, and function sent us back to the perspective of the agent for whom

things function. Is this not a closed circle, each idea propped up only by the next, the whole thing hanging in the air?

It would be, if each leg could stand *only* by leaning on the others. But each also rests on the ground on its own. That we see from somewhere is not a theory we need the other two to support; it is the plainest fact of being a creature with eyes in a particular head, a fact the tick and the dog make vivid without a word of philosophy. That we build rather than receive our models is likewise something you can watch happening — in a child learning that the hidden toy still exists, in your own startle when the world turns out other than you assumed. And that we grasp things by what they do is the working assumption of every craftsman who ever lived. Three legs, each able to bear weight alone, leaning together into something steadier than any one of them — a tripod, not a circle. (The fuller case that this is so, and the objections that have been raised against each leg, I have parked in the back of the book, where the reader who wants the quarrel can have it without holding up the ones who don't.)

## **Standing at the window**

We have what this chapter came for. An agent builds, from its own situated window, functional models of a real and shared world, making meaning within a context — and none of that, we have seen, collapses into “anything goes.” The floor is laid.

But a floor is for standing on, and we have so far described the standing-place without saying much about the one who stands there. An agent does not merely model its world; it *cares* about it — sorts it into better and worse, reaches for some parts of it and away from others. What an agent comes to care about, and how that caring is structured, is the subject of the next chapter. And then, because caring without capacity is mere wishing, we will turn to how an agent *acts* on what it cares about. Values, and then methods: the two halves of any agent's life, both of them now

to be understood as kinds of meaning made at a window onto a shared world.

## **After the meeting**

Tara came back from the neighborhood planning meeting and dropped her bag on Abel's kitchen table hard enough that the salt shaker jumped.

"Two rooms," she said. "Same building, same night. The families on the east side want the lot turned into a playground. The folks who've been there forty years want it kept as the community garden, because it's the last green thing they've got and half of them grow food in it that they actually need." She sat down. "And both of them are *right*, Abel. I sat in both rooms. I could feel it from both sides. The young mothers are right and the old gardeners are right and I drove home thinking — who am I to say? Maybe there's just no answer. Maybe it really is whoever shouts loudest."

Abel was quiet for a moment, which with him meant he was choosing where to start. "What you're describing," he said, "is the oldest problem in the subject. Each room is, in a sense, a window onto the same lot, and there is no window that looks at the lot from nowhere, no neutral —"

"Don't." Tara put up a hand. "Do not tell me they're 'just windows.' One of those rooms had kids in it who need somewhere to play that isn't the street. The other had a man who showed me the tomatoes he's been growing since his wife died. Those aren't *windows*, Abel, they're —" she stopped, hunting for it. "They're people who are not wrong."

"No," Abel said slowly, and she could see him set the lecture down and start again from where she was standing. "They're not wrong. That's the part the word 'window' actually gets right, if I use it better than I just did." He leaned forward. "Here's the thing. That no one sees the lot from nowhere does *not* mean every view of it is as good as every other. They're

Chapter 2 — *The View From Somewhere*

all looking at the *same lot* — the same real situation, the same finite patch of ground, the same neighborhood that has to keep living together on Monday. Some windows onto it are clean and some are filthy. A view that's only ever seen the lot from the young mothers' room, and refuses to walk down the hall and look from the gardeners' — that's a dirty window. It's not wrong because it has a standpoint. Everything has a standpoint. It's wrong because it won't *move*."

Tara turned the salt shaker slowly on the table. "So me sitting in both rooms —"

"Is the only thing anyone can ever actually do," Abel said. "You weren't failing to find the view from nowhere. You were doing the real thing in its place. You were cleaning the glass."

She almost smiled, then didn't. "Okay. But that's exactly my problem, though, isn't it? I cleaned the glass. I saw both rooms clearly. And I *still* have to decide. Playground or garden. The looking-fairly part didn't tell me what to *do*." She looked up at him. "What am I even supposed to weigh them by?"

Abel opened his mouth, and — for once — closed it again. Because that, he realized, was not this conversation. That was the next one.

"Ask me tomorrow," he said. "That one's going to take a while."

## Chapter 3 — What Matters

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### What do we weigh by?

A nurse promised a dying man she would not tell his daughter how much pain he was in; the daughter, who would have dropped everything to come, asks her directly. Honesty pulls one way, the kept promise another, and mercy a third, and the nurse has perhaps four seconds to decide. A community meets to decide what to do with a vacant lot, and one room full of people wants a playground for children who have nowhere safe to play, while another room full of people wants to keep the garden that is the last green thing they have and that some of them quietly depend on for food. Justice says give the long-time residents what they have tended for decades; justice, with equal heat, says give the children what they need now.

These are not exotic puzzles invented to trap undergraduates. They are Tuesday. And they all have the same shape, the shape Tara ran into at the end of the last chapter when she came home from her two rooms and found that seeing both sides clearly had not, by itself, told her what to *do*. Each is a collision between things that genuinely matter, with no obvious way to say which matters more.

The collision puts us between two fears. If we cannot rank what matters — if every value is just as weighty as every other — then we are paralyzed,

frozen forever at the bedside while the daughter waits for an answer. But if we *can* rank them, by some fixed and final scale, then we have become a different kind of frightening: the person who always knows, who lets the rule decide and feels nothing, who would tell the daughter the brutal truth because honesty outranks mercy and that settles it. Paralysis on one side, a kind of monstrosity on the other. Most of moral life is lived in the narrow country between them, and the question of this chapter is how that is even possible — how we manage, most of the time, to weigh things that have no common scale, and to get better at it.

To answer that we have to look closely at the thing doing the weighing: not at any particular value, but at the whole apparatus of caring that each of us carries. We have to look at what I will call the values-model — and the first thing to see about it is that it is almost nothing like the list of values we imagine ourselves to have.

## Not a list but a model

Ask someone what they value and they will hand you a list of nouns. Honesty. Family. Freedom. Kindness. We picture our values this way — as a set of fixed items we possess, a kind of inventory of the soul, each one a solid thing we either have or lack. It is a natural picture, and it is the wrong one, in exactly the way the last chapter said our picture of the *self* was wrong. The list is to your actual values what a snapshot is to a river.

What you actually carry is not a list but a *model* — a vast, living, working representation of what matters and how much and in what circumstances, built up over a lifetime and revised, quietly, almost every day. It is the thing that lets you know, without consulting any rule, that a lie to spare a stranger's feelings about a haircut is not in the same universe as a lie under oath; that you owe more to your own child than to a child across the world, and yet not *infinitely* more; that there is something worse about

cruelty for its own sake than about the same harm done by carelessness. None of that is on the list. The list says “honesty.” The model knows ten thousand things about *when* and *how much* and *weighed against what* — and it knows them not as stored rules but as a shape, a feel, a readiness to respond.

And like the self it belongs to, this model is something you *do* far more than something you *have*. You are building it right now, and rebuilding it. Every time an action of yours turns out worse than you expected, every time you are surprised by what you came to regret or by what failed to trouble you at all, a correction goes back into the model. We do not consult our values the way we consult a reference book; we *grow* them, the way we grew our sense of how a sentence should sound or how far away a thrown ball will land. This is what the last chapter meant, brought home to the most intimate case: caring, too, is constructed — made and continually remade — not found sitting finished inside us.

Which raises, immediately, the same worry the last chapter raised, and I want to meet it in the same way. If our values are *built*, aren't they arbitrary — couldn't they have been built any old way, so that one person's model is as good as another's and we are back in the room with Herodotus? No. And the reason begins with where the building starts.

## **The old roots**

We do not start from nothing. A newborn is not a blank slate onto which a culture writes whatever values it pleases; it is a particular kind of animal, arriving already tilted toward caring about particular things. We watched the very first version of this several steps down the ladder of life, when a single cell began sorting its world into help and harm — the faintest possible caring, value reduced to its barest atom. Climb back up to a human infant and that atom has become an inheritance: a creature that reliably comes to care about being safe, about being held and belonging,

about the difference between fair and unfair, about the suffering of others of its kind. These are not cultural inventions that happen to be widespread. They are the starting tilt of the human animal, the deep and shared root from which every particular culture's values grow, the way every language, however different on the surface, grows from the same human capacity for speech.

This matters enormously for our worry about arbitrariness, so let me be plain about it. When researchers have gone looking — across wildly different societies — for the structure underneath human values, they have not found chaos. They have found recurring families of concern, arranged in recognizable tensions, showing up again and again under different names: care and fairness, loyalty and respect, the protection of what a community holds sacred. The surface varies hugely; the deep grammar varies far less. Our values are *built*, yes — but they are built on a foundation we did not choose and largely share, by creatures with the same basic needs in the same kind of world. That is already a long way from “any old way.”

I am touching this lightly here, because the full story of how shared roots let very different people find their way to agreement is a later chapter's work, and a beautiful one. For now I only need the modest version: the values-model is constructed, but it is not constructed from nothing, and not in private. It grows from a common root, in contact with a common world. Hold that; it is the floor under everything that follows.

## **The deep and the shallow**

Now to the structure of the model itself, because the structure is what makes the impossible weighing possible.

Our values are not flat. They come in layers, from the shallow and particular down to the deep and near-universal. Near the surface are the specific, local, changeable things — that one keeps one's promises about

*The deep and the shallow*

small matters, that the lot should be a garden, that a man's pain is private. Below those lie the broader commitments they express — that trust between people must be protected, that a community deserves a say in its own future, that suffering should not be needlessly multiplied. And below *those*, near the root, lie the deepest concerns of all, the ones almost no functioning person rejects: that the people we belong to should be able to live and flourish; that cruelty is a wound and care a good; that our shared life should go on.

The shallow values are many, fine-grained, and often in conflict. The deep ones are few, broad, and far more widely shared. And here is the move that the whole art of weighing depends on: *a conflict that is irreconcilable at the surface is often reconcilable underneath*. The playground and the garden look like enemies as long as you stare at the surface, at the two incompatible uses of one patch of dirt. Trace each one downward, though — ask what the playground is *for*, what the garden is *for* — and the branches start to lean toward each other. Both rooms, it turns out, are expressing the same deeper thing: *this is our neighborhood, we want it to have a future, and we are afraid of being erased from it*. They are not, at the root, on opposite sides at all. They are two dialects of a single concern, the way the Greek pyre and the Callatian feast were two dialects of *honor the dead*.

This is why we are not paralyzed by value conflict, even though our values have no common measuring-stick at the surface. We navigate not by ranking the surface values against each other — there is no scale on which “the garden” and “the playground” can be directly compared — but by going *down*, to the deeper level where the apparently warring values turn out to be relatives, and then asking what would best serve what they share. The fine grain of the model is not a bug, a frustrating excess of detail. It is the search space. It is precisely because the model is dense and layered, rather than a short list of slogans, that there is somewhere to go when the slogans collide.

It is worth seeing how those layers got there, because the manner of their

building is a pattern we will meet more than once. The model is not assembled deep-first, a foundation of grand principles from which the particulars are deduced; no one arrives at the particular rule (*don't read a friend's mail*) by first mastering the general principle (*protect the trust between people*) and deducing the one from the other. It is built the other way, from the bottom up. A thousand small, specific carings — this promise, that kindness, the thing that stung when it was done to us — get *composed*, over years, into the broader commitments beneath them, and those in turn compose into the few deep concerns near the root. The deep layer is not the model's first floor but its accumulated sediment, the residue of everything the shallow carings turned out to share. So the downward tracing that reconciles a conflict is really a path run in reverse: read upward, the model is a thing *composed* — countless small pieces of caring assembled into a few large ones, simpler parts making a richer whole. And it is the same move by which cells compose into a body, and by which, a couple of chapters from now, separate selves compose into a single *we*: small coherent things becoming the parts of larger coherent ones. The values-model is only the first place we get to watch it happen up close.

## When the model holds together

There is a word for a values-model whose layers fit, whose deep commitments and surface judgments are pulling in the same direction rather than quietly contradicting each other: such a model is *coherent*. And coherence, it turns out, is the thing we have been circling since the first page of the book — now visible in its first concrete home.

An incoherent values-model is one at war with itself. It prizes honesty and routinely shades the truth for comfort; it believes every child deserves care and has drawn its circle of “every child” suspiciously close to home; it holds commitments that cannot all be acted on at once and survives only by never looking at them together. We all carry contradictions like these, usually without noticing — and we usually do not notice precisely

## *When the model holds together*

because we keep the contradicting parts in separate rooms, never in the same context at the same time.

Which points to the engine of the whole thing, the move this book turns on. A values-model becomes *more coherent as its context widens*. When you take in more of the world — more of the people your choices touch, more of the consequences you used to be able to ignore, more of the perspectives that see what your window cannot — the contradictions you had kept in separate rooms are forced into the same room, where they can no longer both stand. Widening the context is what *reveals* the incoherence, and revealing it is the first step to repairing it. The person who has only ever known one kind of family can hold a narrow idea of “family” coherently — until life widens their context enough that the narrow idea starts to contradict their own deeper commitment to love and loyalty, and something has to give. The growth is not the arrival of a new rule from outside. It is the old model meeting more reality and integrating it.

I have to add one note of caution, because the same word can name a false coin, and we will spend a whole later chapter on the difference. There is a cheap way to make a values-model “coherent”: shrink it. Wall off the inconvenient people, refuse the troubling facts, keep the context small enough that no contradiction can ever arise. That is coherence too, in a sense — the airless coherence of the cult and the closed mind — and it is the exact opposite of the thing we are after. The coherence that matters is coherence over a *widening* context, won by taking *more* in, not by shutting more out. For now I only plant the warning; later it will become one of the most important ideas in the book. The direction is what matters: a values-model improving is one growing more coherent while its world grows *larger*.

## How conflicts actually end

We can return now to the nurse at the bedside and the two rooms over the lot, and say something honest about how such things actually resolve — and, just as importantly, how they don't.

They do not resolve by a master formula. There is no fixed ranking of all values, no equation into which you feed honesty and mercy and out comes the answer, and the people who claim to have one are not to be trusted with the dying or with the neighborhood. The dream of such a formula is the monster's dream from the start of the chapter, the fantasy that would let us decide hard things without the weight of them. It does not exist, and its non-existence is not a defect in our moral knowledge. It is a fact about values, which are too many and too fine-grained and too bound to context to fall under any single scale.

What conflicts resolve by, instead, is *deepening and widening*. You go down — tracing the colliding surface values to the deeper commitments they share — and you go out — taking in who is really affected, what the likely consequences are, what the other rooms can see that you can't. And then you reach for the action that best honors the integrated model: the one that keeps faith with the most of what you most deeply care about, across the widest context you can actually take in. Sometimes that search finds a genuine reconciliation, an option nobody in the fight had seen because each was staring at the surface — a design that makes room for both children and tomatoes, a way of telling the daughter the truth that is also an act of mercy. Sometimes it does not, and you are left to make the most coherent choice available to you in a situation that will cost something no matter what, and then to *watch what happens* and let the result teach the model for next time. That watching-and-revising is not a consolation prize for failing to find the formula. It is the whole method. Lather, rinse, repeat — with a model that is a little more coherent, over a little wider a world, each time around.

Notice what this gives us against our two fears. We are not paralyzed, because we *can* weigh — not by a surface scale, but by depth and context and the pursuit of coherence. And we are not monsters, because the weighing is never finished, never handed over to a rule that decides for us; it stays answerable to the next thing we learn, the next face we see, the next regret. We get to decide, and we never get to stop being responsible for deciding.

I should mark the boundary once more before we move on, because we are now holding something powerful and it would be easy to mistake it for the whole. We have described what an agent *cares about* — the values-model, where it comes from, how it is shaped, and what it is for it to improve. That is one half of a moral life, and only one half. A perfectly coherent sense of what matters, held by someone with no ability to act on it, is just a beautiful, useless ache. Caring has to become *doing*, and doing well is its own art, with its own structure and its own ways of going wrong — and that is the subject of the next chapter. Nor have I yet claimed that “a more coherent values-model over a wider context” simply *is* morality; that claim needs the other half, and a good deal of care, and it waits for us further on. Here we have only built, and learned to read, the instrument of caring itself.

## **The lot**

Tara had taken Abel up on his “ask me tomorrow,” and tomorrow had turned into a walk past the disputed lot itself — chain-link fence, a dozen raised garden beds heavy with late tomatoes on one end, a flat weedy stretch where children were, in fact, already playing a scrappy game with a half-flat soccer ball on the other.

“So weigh them for me,” Tara said. “You said that was the next conversation. The playground or the garden. Go.”

“I can’t,” Abel said.

She stopped walking. “That’s it? That’s the philosophy?”

“There’s no scale that has ‘garden’ on one side and ‘playground’ on the other,” he said. “There never was. If anyone hands you that scale, check their pockets, because they’re about to decide something for you and pretend the equation did it.” He looked through the fence. “But that doesn’t mean you’re stuck. It means you’re looking at the wrong level. Don’t ask which of those two things matters more. Ask what each of them is *for*.”

Tara was quiet, watching the kids chase the ball. “The garden people aren’t really fighting for vegetables,” she said slowly. “I mean — Mr. Okafor needs the food, that’s real. But in the meeting it wasn’t about food. It was —” she frowned, finding it. “It was about not being pushed out. They’ve watched the whole block change around them. The garden’s the last thing that’s still *theirs*.”

“And the playground room?”

“Same thing. Exactly the same thing, that’s the —” she laughed, a little stunned. “The young families are scared of the same thing the old gardeners are scared of. They’re scared their kids have nowhere to belong here, that this place has no room for *their* future either. Both rooms are terrified of being erased. They’re not on opposite sides. They’re —” she stopped.

“They’re two dialects,” Abel said, “of one sentence. *Let us still have a future here*.” He almost looked pleased, then caught himself, because she was already three steps ahead of him and not listening.

“Okay, but that doesn’t *build* anything,” Tara said, the energy back in her voice. “Knowing they want the same thing underneath is nice, but Mr. Okafor still can’t grow tomatoes in a sandbox. I can’t just tell them they secretly agree and call it solved.” She was looking at the lot differently now, measuring it with her eyes, the raised beds at one end and the flat stretch at the other. “I have to get the two rooms in *one* room. And I have to figure out what you can actually do with thirty feet of dirt that gives both of them a real piece of it, not a consolation prize.” She pulled out

her phone, already typing herself a note. “Which is a completely different problem than the one I came in with.”

“It is,” Abel agreed. “You’ve stopped asking what to *want*. You’ve started asking how to *do* it.” He said it lightly, but he meant it as the compliment it was. “That’s the harder half, you know. Knowing what matters is just the beginning. Most good intentions die in the part you’re about to start working on.”

Tara was still typing. “Then that,” she said, “is tomorrow’s conversation.”



## Chapter 4 — What Works

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### The harder half

Somewhere right now there is a call center, and it is very good at what it does. The scripts have been tested and retested; the opening line that keeps a lonely person on the phone has been selected, over thousands of trials, against the lines that didn't; the timing of the manufactured urgency, the precise note of false warmth, the moment to mention the grandchild — all of it refined by feedback toward a single end, which is to separate frightened elderly people from their savings. It is, in its way, a masterpiece. Every part has been honed by exactly the process that hones anything: try, see what works, keep what works, discard the rest. The people who built it are, in the narrowest and most chilling sense, *excellent at their jobs*.

I open on something ugly because it makes two points at once, and this chapter lives in the tension between them.

The first point is the one Tara walked into at the end of the last chapter. Caring is not enough. A perfectly tuned sense of what matters, held by someone who cannot actually *do* anything, is a beautiful and useless ache — the person who feels deeply about the suffering in the world and accomplishes nothing about it, the committee that agrees on everything and changes nothing. Good intentions are the easy half. They die, in their

## Chapter 4 — What Works

millions, in the gap between wanting and doing, and what dies them is the absence of *method* — the absence of any real grasp of how to make a wanted change actually happen in a stubborn world. To want the lot to serve everyone is nothing. To get two hostile rooms full of people to build it together is the work, and the work is a craft, and the craft is what this chapter is about.

But the call center makes the second point, and it is the dark twin of the first. Method is not enough either. Worse: method is *morally blind*. The very same machinery that lets a community organizer bring people together lets a con artist take them apart. Skill serves whatever it is pointed at, with magnificent indifference to whether the target deserves it. “Good at it” and “good” are not the same word, and the gap between them is exactly wide enough to fit every competent atrocity in history. So this chapter has to do a delicate thing: it has to take method with full seriousness as the necessary other half of a moral life — and at the same time never let you forget that it is only half, and that half a moral life, in the wrong configuration, is the most dangerous thing there is.

We spent the last chapter on what an agent *cares about*. This one is about what an agent can *do*.

### A second model

In the last chapter I said that what you carry is not a list of values but a living *model* of what matters — layered, fine-grained, endlessly revised. You carry a second model alongside it, built the same way and just as alive, and it is a model of *what works*.

Think of everything you know how to actually accomplish. Not facts you could recite — how to calm a frightened animal, how to end an argument without humiliating anyone, how to fix the thing that’s wrong with the engine by the sound it makes, how to get a permit out of a city office, how to teach a child to read. None of that is a list you consult. It is a vast,

structured competence, accumulated over a lifetime of trying things and watching what happened, organized not alphabetically but by feel and by situation — a working model of the levers the world offers and which ones actually move it. Call it the methods-model, the complement to the values-model. The values-model holds *what to aim at*. The methods-model holds *how to hit it*.

And like the values-model, it is something you *do* far more than something you *have*, and it grows by exactly the process we have watched at every level of this book. You try something. The world responds — not always as you expected. The surprise feeds back, and the model adjusts: that approach works better than you thought, this one fails in a way you'll remember, that lever was connected to something you didn't see. We met the most primitive possible version of this in the first chapter, in the bacterium climbing its gradient — a methods-model with exactly one move in it, *steer toward the good stuff*, refined by the only feedback a bacterium gets. Your methods-model has billions of moves in it, but it is the same kind of thing, grown by the same loop: act, observe, keep what works. The call center is that loop too, which is the horror of it. The loop doesn't care what it's optimizing.

## **Knowing how**

There is an old distinction worth dusting off here, between knowing *that* and knowing *how*. You can know *that* a bicycle stays up by steering slightly into a lean, and recite it perfectly, and still fall off the bicycle. Knowing how to ride is a different kind of knowing altogether — not a stored fact but an attuned capacity, a feel for the thing that lives in the doing and cannot be fully written down. The methods-model is made of knowing-how. It is competence, not information.

This is where a thread from earlier in the book finally comes into its own. I said, back when we were laying foundations, that we grasp things not

by some hidden essence but by what they *do* — and that to understand something is to *see its edges*, to see where its powers begin and end. That was stated abstractly then. Here is where it becomes the most practical thing in the world, because method just *is* the seeing of edges. The skilled mechanic hears the edge of the failing part. The good organizer feels the edge of what a room will and won't accept tonight. The experienced nurse sees the edge between the pain that can wait and the pain that can't. Skill is not knowing more facts than the novice; it is seeing more edges — perceiving, in a situation, where the leverage actually is and where pushing will do nothing or backfire. The novice sees a wall. The expert sees the one loose brick.

And notice — because we will need this much later — that because methods are defined entirely by what they *do*, the same method can be carried in wildly different forms. “Get the resource to where it's needed” is a method realized by a beehive's waggle dance, a city's water system, and an immune cell following a chemical trail. The method is the function, not the flesh. I only flag it now; it will matter enormously when we ask, later, whether very alien kinds of agents could share our methods, and our morality.

## Scope

The values-model, I said, has a *context* — the wider the context of meaning it stays coherent across, the better. The methods-model has the exact counterpart, and it is worth naming precisely because it is so often where good efforts come to grief. Call it the *scope of effectiveness*: the range of situations, sizes, and circumstances over which a method actually works.

Every method has a scope, and the commonest mistake in all of practical life is to forget where a method's scope ends. The approach that settles a dispute between two people can make things catastrophically worse applied to two nations. The discipline that keeps one household running founders

when scaled to a city. The trick that works once stops working the moment everyone knows it. A method is not true or false; it is *effective within a scope*, and a wise agent holds not just the method but a sense of its edges — where it bites and where it slips. (That the rules change as you scale up is a deep enough point that it gets its own chapter; for now just notice that scope is a property every method has, and that ignoring it is how competent people fail.)

So the methods-model improves the way the values-model does — by growing more *coherent over a wider scope*. A jumble of tricks that each work in their own narrow corner and contradict each other at the edges is a poor methods-model, however clever any single trick. A good one is a set of methods that hang together, that compose, that keep working across a widening range of situations and don't undercut one another when combined. Growing competence is not the accumulation of more tricks. It is the integration of method into something that holds together over more and more of the world. The bacterium works in one scope. The person who can act well as a parent *and* a professional *and* a citizen, without those competences tearing each other apart, has a methods-model coherent over a vast scope — and that breadth is itself a kind of mastery, distinct from being brilliant at any one thing.

## **Winning is the wrong word**

Here we reach the place where this chapter quietly turns one of the reader's oldest assumptions, and I want to do it gently because the assumption is nearly universal and feels like simple common sense.

We tend to picture *doing* as a matter of *winning* — of reaching discrete goals, scoring points, getting the thing and being done. A goal, on this picture, is an object you acquire: the promotion, the house, the verdict, the win. Effectiveness is then just your win-rate, your tally of goals reached. It is a clean, satisfying picture, and it is the picture the call center lives

inside perfectly: it has a goal, it optimizes ruthlessly toward the goal, it wins. The scoreboard is all.

But look again at what we have actually been describing. The methods-model is not a trophy case of past wins; it is a *capacity* — a living, growing ability to act well across situations, most of which you cannot foresee. What you are really building, every time you act and learn, is not a higher score but a wider and steadier competence. And the difference is not a quibble, because the two pictures come apart exactly where it matters most. Optimize for the scoreboard and you will, sooner or later, do the thing that wins the point at the cost of the game — the lie that closes the sale, the shortcut that books the quarter and wrecks the decade, the script that empties the lonely widow’s account. The scoreboard mindset is *precisely* what makes efficient immorality feel like success from the inside; every con artist is “winning.” The competence mindset asks a different question — not “did I score?” but “am I becoming someone, or something, that acts well over a widening range of what I’ll face?” — and that question has no final whistle. There is no state in which you have *finished* being good at living well, the way there is a state in which you have won the match. The doing, like the caring, is a process and not a possession; a direction, not a destination. (And that is not yet the whole of the shift — the deepest part of it, what happens to “winning” when we stop being solitary players and start acting together, waits for the next chapter.)

## Why being good at it isn’t enough

We can now say cleanly what the call center has been waiting at the top of the chapter to teach us.

Effectiveness and worth are two different things — two different axes, measured in two different ways, answering two different questions. The methods-model answers *can I bring this about?* The values-model answers *is this worth bringing about?* And the unnerving fact, the one our whole

## Why being good at it isn't enough

chapter has been circling, is that the first question's answer tells you absolutely nothing about the second's. You can be devastatingly effective in the service of something worthless, or worse than worthless. Skill is real, and it is morally weightless on its own. This is not a flaw to be fixed; it is just the shape of the thing. A scalpel cuts toward healing or harm with equal ease, and so does competence.

Which is exactly why a moral life requires *both* models, coupled, and why neither alone will do. Values without methods is the beautiful useless ache; methods without values is the call center. The agent we are slowly building up across these chapters — the one whose actions can be assessed as more or less *moral* — is one in whom a coherent sense of what matters and a capable sense of what works are bound together and refined *together*, each disciplining the other. The caring tells the competence what it is *for*; the competence tells the caring what is actually *possible*, and drags it back from wishful thinking. You act, the world answers, and the answer corrects *both* models at once — you learn not only that a method failed but, sometimes, that a value you held was confused; not only that you were wrong about what works, but about what was worth wanting.

I want to flag, and then deliberately not yet open, the door this leaves ajar. We have seen that effective method serving a *good* and *widening* set of values is something we would call admirable, and that effective method serving a *narrow, closed, self-contradicting* set of values is the engine of the worst things people do. That contrast — between competence in service of a widening world and competence in service of a shrinking one — is going to turn out to be one of the most important ideas in the book. But it needs the full account of what makes a values-model “widening” rather than “narrowing,” and that account is still two chapters off. For now, the modest version is enough: being good at it is not the same as being good, and morality lives in the coupling, never in either half alone.

So let me mark, as I have at the close of each of these chapters, exactly what we now hold and what we don't. We have the two halves of an agent's inner life: a model of what matters, refined toward coherence over

a widening context, and a model of what works, refined toward coherence over a widening scope. We have seen that they must be coupled, and that the coupling is where anything we'd call moral could possibly live. What we have *not* done is put them together into a definition of morality — and, just as pressing, we have treated this whole time as though the agent were a single, solitary *I*, one self valuing and acting alone. But almost nothing that matters morally is solitary. The hard questions are about *we* — families, neighborhoods, the two rooms over the lot, the species — and, as I have hinted more than once, methods that work beautifully for one person can do very strange things when scaled up to a crowd. Before we can define morality, we have to watch the solitary *I* become a *we*. That is the next chapter.

## Getting the rooms together

“You’re doing the thing again,” Tara said, “where you explain my own job to me.”

Abel had been mid-sentence — something about how her organizing work was, viewed correctly, the construction of a shared methods-model across a population of agents who currently — and he stopped, because she was right, and because the thing he was describing was sitting in front of him doing it far better than his description.

She had gotten the two rooms into one room. It had taken her three weeks and, by her own account, nine cups of terrible coffee, one shouting match she'd let run exactly ninety seconds before stepping in, and a seating arrangement she'd agonized over more than anyone would believe — gardeners and young families alternated, on purpose, so no one could form a wall. On the table between them was a rough site plan: raised beds along the sunny south fence, a play area on the packed-dirt north end that couldn't grow anything anyway, a shared bench at the seam where, she

was betting, the two groups would eventually start talking to each other without her.

“How did you know the seating would work?” Abel asked. He was, she noticed, actually asking. Not rhetorically. Not on his way to a theory.

“I didn’t *know*,” Tara said. “I’ve just — done it enough times. You can feel when a room’s going to clump up into sides. You break the line of sight, you put a person from each camp next to someone they already kind of like, you give them a small thing to agree on first so disagreeing later doesn’t feel like the whole identity of the night.” She shrugged. “It’s not a formula. Half of it’s reading the particular people in the particular room. The exact same setup would’ve blown up with a different crowd.”

“Scope,” Abel said, almost to himself.

“What?”

“Nothing. You said it’s not a formula and it depends on the particular room. That’s —” he visibly chose not to say the word he wanted to say. “That’s right. That’s the whole thing, actually. The part nobody can write down.”

Tara looked at him, a little surprised, then back at the site plan. “Here’s what’s bugging me, though,” she said. “I’m good at the *room*. Thirty people, I can do thirty people. But the thing they actually want — the neighborhood having a future, not getting erased — that’s not thirty people. That’s the whole district, the zoning board, the developers, ten years from now, people who aren’t even born yet.” She tapped the plan. “This lot is a lot. Getting *them* to act like a *them*, all of them, big and over time —” she shook her head. “I don’t even know if that’s the same skill. It might be a completely different animal.”

“It might be,” Abel said. And then, because for once he had nothing to add that she didn’t already half-know, he just said it plainly. “That might be the most important question there is. What it takes for a lot of small

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*Is to become one large we that can actually act — and whether the things that work for the room still work for the world.*”

Tara capped her pen. “Tomorrow’s conversation?”

“Tomorrow’s conversation,” Abel agreed.

## Chapter 5 — Selves Made of Selves

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### My child, the stranger

Here is a thought experiment that has been quietly tormenting moral philosophers for two hundred years. A building is on fire. In one room are two children you have never met; in another, just down the hall, is your own. You have time to reach only one room. Pure impartial morality — the principle that every life counts exactly the same, that no one's child is worth more than anyone else's — gives a clear and horrifying answer: save the two. Two lives outweigh one, and the one happening to be yours is, from the impartial standpoint, a morally irrelevant accident.

Almost no one can accept this, and the interesting thing is *why* we can't. It is not that we are too weak to live up to the impartial ideal, the way we fail to be as generous or as brave as we know we should be. It is that a parent who *could* do it — who would stand in the smoke calmly weighing headcounts and let their own child burn to save the larger number — would strike us not as a moral hero but as someone with something deeply broken in them. We do not admire the coin-flip parent. We recoil from them. The pull toward our own is not a lapse from morality that we are sheepish about; it feels, if anything, like one of its foundations.

So we are caught. Either impartial morality is right, and the love that makes a parent run *toward* their own child is a kind of moral error we

should be ashamed of and try to overcome — which seems insane. Or partiality is fine, and “everyone counts equally” is a comfortable lie we tell at conferences and abandon the moment the smoke is real — which seems like giving up on the whole idea of a morality that reaches past our own tribe. This is the partiality paradox, and it is not an abstract puzzle. It is the daily texture of moral life, the constant low negotiation between the people who are *ours* and the people who are merely, also, people.

I am going to argue that the paradox dissolves the moment we get clear about a question we have been postponing for four chapters — the question of what a *self* even is, once there is more than one of them. Because the deepest fact about selves, the one that changes everything here, is that they nest.

## **Selves made of selves**

Go back, one last time, to the kitten from the first chapter, fighting to finish its bottle — a self, we said, a process holding itself together against a world that would dissolve it. But now look closer, and the tidy picture complicates beautifully. That kitten is not a single thing. It is made of cells, and every one of those cells is *itself* a self in exactly the sense we have been using — a process maintaining its own boundary, sorting its own little world into help and harm, with its own stripped-down values-model and methods-model. The kitten is a self made of selves. Trillions of small agents, each minding its own persistence, have somehow been bound into one larger agent that mints its own — that wants the bottle, that has a name now, that grieves and is grieved for at a scale no single cell could.

This is not a quirk of kittens. It is the structure of the whole living world, repeated at level after level. Cells compose into bodies. Bodies compose into families, hives, packs, tribes. Those compose into communities, nations, economies, civilizations. At each level, smaller agents become the parts of a larger agent — and the larger agent is *real*, not a figure of

speech. A beehive genuinely does things no bee can do; a city genuinely acts in ways no citizen intends; a research field genuinely knows things no scientist holds in a single head. We are so used to drawing the boundary of “an agent” around the single human body that we forget the boundary was always somewhat arbitrary. The body is one natural place to draw it. It is not the only one.

And this means the *self* — the thing whose values and methods we have spent four chapters building up — is not a fixed point but a *scale-spanning* affair. You are a self. But “you” reaches inward to the cells you are made of and outward to the families and communities and causes you are part of, and where exactly “you” stops is less a fact than a *setting*, and a movable one. When you say “we won,” watching your team, you have, for a moment, relocated the boundary of your self to include eleven strangers on a field. When a soldier dies for a country, the self they are dying for is one that swallowed their body whole. The reach of an agent — how far out its “we” extends, how much of the world falls inside the circle of what it treats as *itself* — is one of the most important things about it, and it is not fixed by biology. It can be small or vast, and it can grow.

I want to register, lightly, a consequence we will need much later and cannot develop now. If a self is defined not by what it is *made of* but by this functional shape — a process that maintains itself, models a world, values and acts and can be composed with others into something larger — then there is no reason the story has to stop with biology. A team, a corporation, an institution is already a kind of agent made of human parts. And a sufficiently capable artificial system, pursuing goals and acting at scale, would be an agent too, by the only definition that has done any work for us so far. The framework we are building was never really about *humans*. It was about *agents*, and agents come in more kinds than we are used to counting. (The full case for that reach, and the objections to it, I have set aside for the back of the book; here I only plant the flag.)

## When a “we” wakes up

So how does a “we” come to exist at all — how do many small agents become one larger one that can genuinely act?

The answer, pleasingly, is the same answer we have been giving since the first chapter, just at a new level. A larger agent wakes up when smaller agents come to *share* enough of a values-model and a methods-model to act as one — when they come to want, in the relevant respects, the same things, and to coordinate their doing of them. A crowd is not yet an agent; it is a heap of separate selves who happen to be in the same place. A crew is an agent: its members share an aim and a way of pursuing it tightly enough that the crew *does things*, that it can succeed or fail *as a crew*. The difference between the heap and the crew is shared values and shared methods — the same two models we have been tracking all along, now held in common across many bodies and stitched together by communication.

This shared holding is never total, and that turns out to be essential rather than a defect. The members of any real “we” agree on some things and differ on others; they cooperate in some ranges and go their own ways in others. A family, a town, a nation is held together not by perfect unanimity but by *enough* overlap in *enough* places — a zone of shared values and coordinated methods, surrounded by a penumbra of difference that the shared zone is wide enough to tolerate. The art of making and keeping a “we” is largely the art of managing that ratio: enough commonality to act together, enough room for difference that the members are not crushed into a single mold. Get the ratio wrong in one direction and the “we” dissolves back into a heap. Get it wrong in the other and you have something worse, which we are about to meet.

## **The cost of getting bigger**

Because here is the hard fact that the rest of this chapter, and a great deal of the rest of the book, turns on. Getting bigger is not free.

It is, first, gloriously *generative*. We saw why all the way back in the first chapter: when agents combine, the surface on which they can form new, valuable combinations grows faster than the agents themselves. Two people who pool their efforts can do more than twice what one can; a city of a million can sustain arts and sciences and specialties that a village of a hundred cannot even imagine. This is the deep reason a “we” is worth forming at all — not mere safety in numbers, but the explosive new space of the possible that opens when many become one. The larger the coordinated self, the more it can reach, ask, and make. The upside of scale is enormous, and it is the engine of nearly everything we value about civilization.

But that same growth carries a bill, and the bill comes due in the currency of *coherence*. The larger and more far-reaching a “we” becomes, the more there is to hold together — more members, more relationships, more conflicting local views, more ways for the shared values-model to develop hidden contradictions and for the shared methods to work at cross-purposes. And the labor of keeping all of that coherent does not grow gently with size; it grows *faster* than the “we” does, for the same reason the generative upside does — because what has to be reconciled is not the members but the explosively multiplying *relationships among* them. A pair has one relationship to keep straight. A village has thousands. A civilization has a number with no intuitive name. Coherence, which was hard enough for a single mind, becomes a staggering and permanent labor at scale.

No large “we” survives by making every member keep faith with every other; at the scale where the relationships outnumber the people a thousandfold, that is not merely hard but impossible, and anything that tried it would come apart in a week. What lasts does something cleverer: it *nects*. The members cohere into small wholes — a crew, a household, a team —

each holding itself together close up; those wholes cohere into larger ones — a department, a town; and the great “we” asks not that everyone agree with everyone, but that each small whole keep its own house in order and stay coherent with the few wholes it directly touches. Coherence is kept local and then composed — the way a body does not have every cell negotiate with every other but builds tissues, organs, systems, each coherent in its own right and joined at a manageable number of seams. This nesting is the only thing that makes the bill of scale payable at all, and it is *earned*, never free: a level may be treated as a single coherent piece by the level above only because the parts beneath it actually did the work of cohering first. Earned modularity, we might call it. But nesting only *organizes* the bill; it does not waive it. At every seam where one whole joins the next, the coherence still has to be paid for — and there the road forks.

There are, broadly, two ways for a growing “we” to pay that bill, and the difference between them is one of the most morally important distinctions in the book — so much so that I am going to name it here and then give it a whole chapter of its own.

The honest way is to *do the work*: to actually integrate the difference, to build the larger coherence by taking more in — more voices heard, more local knowledge folded into the shared model, more of the penumbra of difference genuinely metabolized into a richer common life. This is expensive, slow, and often maddening. It is also the only way a “we” grows *larger* in the sense that matters — wider in what it can hold without breaking.

The cheap way is to *cut the cost* — and the cheapest cut of all is to stop integrating and start *excluding*. If holding the difference is what’s expensive, then a “we” can buy itself a counterfeit coherence simply by shrinking the circle of who and what it will admit: purge the dissenters, wall off the outsiders, declare the troubling facts enemy propaganda, demand conformity and call it unity. This works, in the short and ugly term. The “we” does become more internally consistent — because it has amputated everything that might have contradicted it. It feels like strength. It feels like coming

together. And it is the precise signature of a “we” going *wrong*: coherence purchased not by widening but by narrowing, unity bought at the price of everything the unity was supposed to be *for*. We have brushed against this several times now — the cult, the closed mind, the airless consensus. Here we can finally see where it comes from. It is what a growing agent does when the cost of real coherence gets too high and it reaches for the discount. Hold that thought; in the chapter after next it becomes the hinge of the entire moral picture.

## **Playing to keep playing**

There is a shift in how we understand *winning* that only becomes visible now that we have a “we,” and it completes a turn we began in the last chapter.

A solitary agent, I said there, does better to think in terms of growing competence than of racking up finite wins. Among *many* agents, that point sharpens into something with real teeth. When selves are separate and rivalrous, the natural picture of a goal is the zero-sum win: there is a fixed pie, and my slice is your loss, and to “win” is to end with more than you. But the whole reason a “we” is worth forming — the generative surplus of cooperation — exists *precisely because that picture is usually false*. When agents coordinate, they can make the pie bigger; they can reach outcomes where each does better than any could alone. The gains from becoming a “we” are, almost by definition, the gains that zero-sum thinking cannot see.

So the deepest goods of scaled agency belong not to the finite game — the kind you play to win and end — but to the *infinite* kind: the game whose point is to keep the game going, and growing, and including more players. A marriage played to “win” is already lost; a marriage played to keep the marriage flourishing is a different and better thing. A community that treats its shared life as a prize to be captured by one faction destroys the

very surplus that made the community worth having; a community that treats its shared life as a game worth continuing keeps generating that surplus indefinitely. This is not soft-headed optimism. It is the hard logic of where the value of cooperation actually comes from. The agent who has understood scale has stopped asking “how do I win?” and started asking “how do we keep this going, and growing, in a way that keeps drawing more in?” — which, you may notice, is beginning to sound a great deal like the one-sentence thesis I asked you to carry from the very beginning.

## Why you love your child most

We can return now to the fire, and to the child, and lay the paradox to rest.

The mistake in the paradox was hidden in its first move — in the assumption that the moral ideal is *flat impartiality*, a view from nowhere in which your child and the strangers register as identical units and your love is a distorting bias to be corrected. But we have spent a whole book dismantling the view from nowhere, and we should not be surprised to find it was doing damage here too. There is no agent who cares about everyone equally from nowhere, because there is no caring from nowhere. Care, like everything else, comes from somewhere — and where it comes from is the nested self, which has a *shape*. Your care is most intense at the center, where the “we” is tightest — your own body, your child, the few you would die for — and it falls off with distance through the widening rings of family, friends, community, strangers, the species, the living world. That gradient is not a flaw in your morality. It is the structure that makes you capable of care at all. A being with no center, who cared about everyone exactly the same, would in practice care about no one in particular, which is to say about no one — love spread so thin it ceases to be love.

## Why you love your child most

So the parent running toward their own child is not failing the moral ideal. They are *expressing* the very thing morality is made of — fierce, particular, located care — in the place where it burns hottest. There is nothing to apologize for there.

But — and this is the whole of it — the moral arrow does not point at *flattening* that gradient. It points at *widening the circle*. The growth we have been tracking through this entire chapter, the expansion of the self from cell to body to family to community to world, is exactly the moral movement: not loving your child *less*, but coming to count more and more of the world as also, in its measure, *yours*. The morally growing person does not stop loving their child most. They become someone for whom the stranger, too, has come inside the circle — cared for less acutely than the child, of course, but genuinely, really, no longer a mere unit in someone else's headcount. Partiality and the widening of concern are not enemies to be traded off. One is the engine; the other is the direction. You love your child most, and you let the circle that holds your child grow, until it holds the neighbor's child too, and then the stranger's, each at its proper warmth. That is not the abolition of partiality. It is partiality, learning to reach.

Notice that this is the same movement as everything else in the book, wearing its most human face. A values-model growing more coherent over a widening *context*; a methods-model growing more capable over a widening *scope*; and now a self growing more inclusive over a widening *circle of care*. Three names for one direction — outward.

And so we have, at last, all the pieces. We have an agent that builds its world from a perspective (Chapter 2); that comes to care, through a layered, refinable values-model (Chapter 3); that acts, through a layered, refinable methods-model (Chapter 4); and that nests and scales, from a single self into the great composite selves of family and community and beyond, its circle of care widening or — at the discount price — narrowing (this chapter). What we have *not* yet done is the thing the whole book has been building toward: to say, plainly and all at once, what *morality* is,

given all of this — and to look hard at the dark twin we keep glimpsing, the narrowing that wears coherence’s face. Every part is now on the table. The next chapter puts them together.

## Us

“I keep getting stuck on the same thing,” Tara said. They were back at the lot; the raised beds were in, the play area was a rectangle of fresh wood chips, and a few kids were already testing it while two of the older gardeners pretended not to watch them fondly. “The lot worked. The block is talking to itself for the first time in years. But the thing that’s actually coming for this neighborhood isn’t the block. It’s the whole district rezoning, it’s money from somewhere none of us can see, it’s a fight way too big for thirty people who like each other now.”

“So you need a bigger *us*,” Abel said.

“Right. The whole neighborhood, maybe the next one over, everybody who’d get pushed out. And the second I think about *that* —” she made a face. “I can already feel how it goes wrong. The fastest way to get a big group fired up and united is to give them somebody to be against. The developers. The newcomers. The city. I’ve watched organizers do it. It *works*. You want unity fast, you point at an enemy and it just — snaps together.” She shook her head. “And it always curdles. Six months later they’re eating their own, because the only thing holding them together was the hating.”

Abel was quiet a moment. “You’ve just described the cheapest way to make a ‘we’ cohere,” he said. “Shrink what it’ll tolerate until everyone inside looks the same by contrast with everyone outside. It’s fast, it’s strong, and it’s —”

“A trap,” Tara said. “Yeah. I know it in my gut. I just can’t say *why* it’s a trap when it works so well in the short run.”

“You can, actually,” Abel said. “You just said it. ‘Everything it was supposed to be for.’ The point of getting the neighborhood together is to protect a *home* — a place wide enough and warm enough to hold all the different people who live there. If the only way you can unite them is by making the circle small and mean, you’ve already destroyed the thing you were uniting to save. You won the fight by burning down the house.” He paused. “The hard way — actually getting all those different people to hold together *without* an enemy, by what they really share — that’s slower. It might be the slowest thing there is.”

“But it’s the only one that doesn’t eat itself.” Tara looked out at the lot, at the kids and the watching gardeners, the smallest possible version of the thing she was trying to imagine at ten thousand times the size. “Okay. So I’ve got all of it now. What people care about, how you actually get things done, how you get a lot of them to pull together without it going rotten.” She turned to him. “Which means I think I’m finally allowed to ask you the big one. After all this — what actually *is* the right thing to do? Is there even an answer, or is it just... all of this, forever?”

Abel smiled — the particular smile he saved for a question he thought was exactly the right one.

“*That,*” he said, “is the whole book. Ask me tomorrow, and I’ll try to say it in one sentence.”



## Chapter 6 — The Arrow

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### The one question we can't answer

We can define almost anything else. We can say what water is, and what a recession is, and what a fugue is, and what counts as checkmate. But ask a room of thoughtful people what *morality* is — not what's right or wrong in some case, but what the thing itself *is* — and the room comes apart. One says it is obeying the rules. One says it is doing what brings about the most good. One says it is being a good person. One says it is whatever God commands, and one says it is whatever your society approves, and one says, a little desperately, that it is just a word we use to dress up our preferences. These are not minor disagreements about a shared object. They are different objects. After three thousand years of the best minds we have, we cannot agree on what we are even talking about.

That should strike you as strange. And by now, I hope, it should also strike you as *diagnostic* — because we have seen this exact pattern before, more than once, in this very book. We saw it with *life*, when people hunted for the essence and found only quarrels, until someone thought to ask what life *does* instead of what it *is*. We saw it with the *self*, which dissolved into paradox as long as we treated it as a fixed thing and came clear the moment we treated it as a process. The reason we cannot define morality, I want to suggest, is the same reason we could not define those: we have been looking for the wrong kind of thing. We have been looking for a

## Chapter 6 — The Arrow

*destination* — a fixed Good, a final rule, a settled list — when morality was never a place. It was always a direction.

Tara, at the end of the last chapter, finally asked the question this whole book has been circling toward, and asked it in the bluntest possible form: *after all of this — what actually is the right thing to do? Is there even an answer, or is it all just this, forever?* Abel promised to try to say it in one sentence. We have now built every part that sentence needs. It is time to say it.

### The sentence

Here it is.

*Morality is the drive toward increasing coherence of what we value and how we act, across an ever-widening reach of concern — and an act, or a life, is more moral the further it carries that drive, and less moral the more it betrays it.*

That is the whole thesis. If it sounds, on first reading, both abstract and somehow obvious, that is exactly right — it should feel abstract because it is compressed, and obvious because you have spent five chapters earning every word of it. Let me unpack it once, slowly, so you can watch the parts you already own snap into place.

*What we value* — that is the values-model from Chapter 3, the living, layered representation of what matters, grown from the deep shared root of the human animal. *How we act* — that is the methods-model from Chapter 4, the competence to bring valued change about in a stubborn world. *Coherence* — that is the fit among all of it: a values-model whose layers don't secretly contradict each other, a methods-model whose tools don't work at cross-purposes, the two of them bound together so that what we do actually serves what we care about. *Increasing* coherence, because it is never finished; the work is always to reduce the contradictions we can

## *The arrow runs backward*

currently see and to integrate what we've newly learned. And *across an ever-widening reach of concern* — that is the whole movement of Chapter 5, the self growing outward from its tight hot center to take in more and more of the world as also, in its measure, *ours*: more context for the values, more scope for the methods, more beings inside the circle of care.

And notice the last clause, the one that turns a description into a compass. *More moral the further it carries that drive; less moral the more it betrays it.* There is no finish line in that sentence. Nothing is ever fully moral, the way nothing is ever fully north. There is only the direction, and our position relative to it, and whether our next step carries us along it or back. The arrow does not point at a target we are failing to reach. It points *outward*, and asks of any act or any life the single question: does this make what we care about and how we act more coherent, over a wider world — or less, over a narrower one?

This is why the room full of definitions came apart. Every one of those people was pointing at something real — outcomes matter, rules matter, character matters — but each had grabbed one feature of the moving arrow and mistaken it for a stationary destination. We will see, before the chapter is out, how each of the old answers finds its proper place as a piece of this one. But first we have to look hard at the second half of the compass — the *back*. Because a direction that has a forward has a backward, and the backward is where this framework earns its keep.

## **The arrow runs backward**

Everything in the sentence turns on three words doing their work together: coherence, *and* widening, *and* reach. Pull them apart and the whole thing falls, because coherence by itself — coherence as a lone virtue — is not only insufficient. It is, in its commonest failure, the precise signature of evil.

Here is the trap, and it is worth feeling its full force, because almost everyone who reaches for “coherence” as a moral idea walks straight into it. We admire consistency. A worldview without contradictions feels like an achievement; a person whose values and actions all line up feels like someone with integrity. So it is natural to think: the more coherent, the better. But ask *how* a system actually becomes perfectly coherent, and the answer is chilling. The fastest, cheapest, most reliable way to eliminate contradiction is not to do the patient work of reconciling differences. It is to *shrink the world the system will admit* — to throw out whatever doesn’t fit.

A cult is exquisitely coherent. So is a conspiracy theory, a hardened ideology, a sealed and frightened mind. They achieve their seamless internal consistency by the same method every time: they wall off the inconvenient fact, recast the outside voice as an enemy, narrow the circle of who and what counts until nothing remains that could possibly contradict the doctrine. That is coherence — real coherence, often more perfect than anything an open mind can manage. And it is the mark of the *most* immoral configurations we know, precisely because it is coherence bought by amputation. The contradictions are gone because everything that might have raised them has been cut away.

We watched the mechanism of this in the last chapter, when we saw what a growing “we” does when the cost of real coherence gets too high: it reaches for the discount, and buys unity by exclusion. Now we can name it for what it is, in full generality. This is the *counter-dynamic* — the arrow running backward. Increasing coherence over a *widening* reach is the moral direction. Increasing coherence over a *shrinking* one is the immoral direction. They can look identical from inside — both feel like clarity, like conviction, like things finally making sense — and they are opposites, distinguished by one question: as your values and methods grew more consistent, did your world grow *larger* or *smaller*? Did you reconcile the difference, or did you cut it out?

This single distinction is what lets the whole framework escape the two

### Where the “ought” comes from

failures that have haunted us since the Introduction. It is not relativism, because there genuinely is a direction — toward coherence over a widening world — and the cult is genuinely, not just disapprovingly, going the wrong way. And it is not absolutism, because the standard is not a fixed creed handed down from nowhere; it is the *shape* of the movement, available to anyone, in any tradition, who asks whether they are taking more of reality in or walling more of it out. The Greek and the Callatian could each become more moral without abandoning their funerals — by widening, by coming to see the other’s grief as real. A modern person can become *less* moral while keeping every fashionable opinion — by narrowing, by reducing the circle of the fully human until it fits their comfort. The arrow does not care what you believe. It cares which way you are facing.

## Where the “ought” comes from

There is a famous wall in philosophy, and a careful reader has been watching me approach it for six chapters, wondering if I would pretend it isn’t there. The wall is this: you cannot derive an *ought* from an *is*. No pile of facts about how the world *is* — not all the physics and biology and psychology ever assembled — logically entails a single conclusion about what anyone *ought* to do. I have spent this whole book describing how value and coherence and agency actually work, which is all *is*. By what right do I now say anything about what we *should* do?

By no such right, and I am not going to claim it. I have not been quietly building a ramp over the wall, to derive *ought* from *is* at the last moment. I am doing something else, and it matters that you see exactly what. I am not deriving morality from the facts. I am *relocating* it. The “ought” of this book does not come from the bottom, squeezed out of physics by some illicit logical trick. It comes from the *agents* — from what valuing creatures, looking out their windows onto a shared world, actually converge on as their reach of concern widens. Morality is not a fact about the universe that we read off the way we read a thermometer. It is not,

either, a fiction each of us invents alone. It is what gets *constructed*, and increasingly *agreed*, as agents who share a world and a root work out how to live together across a widening context. The normativity is real, but its home is not the physics. Its home is the convergence.

This is the move the whole book has quietly been making, and I can now say it plainly: we do not solve the old problem of getting *ought* from *is* — we sidestep the need to. There was never a moral fact sitting out there in the world waiting to be derived. There is only the long, real, disciplined process by which agents come to agree, under widening context, on what is better — and *that process*, not some fixed truth behind it, is what “morality” names. (The full defense of this move, and the serious objections it has to answer, I have set down carefully in the back of the book, because they deserve more than a paragraph and would derail us here. But the shape of it is exactly this: not derived, relocated.)

## How strangers agree

If morality lives in the convergence of agents rather than in a fixed truth, then everything depends on a question I have been promising to answer since the very first pages: *can* different agents, looking through different windows, actually converge? Or are we doomed to the room that came apart, each pointing at a different object forever?

The Introduction gave you the image; we can now see why it works. Picture the agents of the world as leaves at the tips of a vast tree — each out at its own end of its own branch, reaching into its own private corner of the possible. Out there at the leaves, we differ, sometimes violently: the playground and the garden, the pyre and the feast. But trace any two leaves back down their branches, toward the trunk, and the branches *join*. The deeper you go — past the specific custom, past the local doctrine, down toward the basic facts of being a vulnerable, social, mortal creature who must grieve its dead and feed its children and live among others —

## *Telling better from worse*

the more the differences resolve into shared ground. The two rooms over the lot were not, at the root, on opposite sides; they were two dialects of *let us still have a future here*. The Greek and the Callatian were two dialects of *honor the dead*. Disagreement is real and it is mostly shallow. Agreement is harder to see and it is mostly deep.

This is why convergence is possible without a view from nowhere. We do not come to agree by all climbing to some impossible neutral vantage. We come to agree by climbing *down* — by widening our context until we reach the branch that already holds us both. And widening context, you will notice, is the very same motion the whole moral arrow is made of. Seeking agreement and becoming more moral are not two different activities. They are one activity seen from two angles: the work of making a larger, more coherent “we” out of the differences we started with. The tree is just the moral arrow drawn between people instead of within one.

I will not pretend this convergence is automatic, or guaranteed, or even usually easy — the conditions under which it succeeds and the ways it fails are real and important, and I take them up squarely later. The claim here is the one the framework actually needs, and no more: that beneath our genuine differences there is, reliably enough, a shared root to be found, and that finding it is the same thing as widening the circle

## **Telling better from worse**

One more worry has to be met before the picture is whole, and it is the hard-nosed one. “Increasing coherence over a widening reach” — fine, but can you *measure* it? If you cannot put a number on coherence, can you really say one act is more moral than another, or have you just replaced the old fog with a new one?

The honest answer is that you cannot put a number on it, and — this is the part that matters — you do not need to. The mistake hidden in the demand is the assumption that comparison requires a measuring stick, a

## Chapter 6 — The Arrow

single scale on which every act gets a score. But the verdicts that actually carry the moral weight do not need a scale at all; they fall straight out of the *direction*. When an act makes your values and methods more coherent *and* widens the reach of your concern, it is better, plainly and without arithmetic — both arrows up. When it buys coherence by narrowing the reach — the counter-dynamic — it is worse, just as plainly. We do not need to know the exact magnitude of a cult's internal consistency to know which way it is facing. The two cases that matter most, real progress and the counter-dynamic, are visible by their shape, not their size.

What is left over — the genuinely hard cases, where a little more coherence trades against a little less reach, or two real goods pull against each other with no clean winner — is not a defect the theory should be embarrassed about. It is the actual texture of hard moral choice, the same texture we met with the nurse and the daughter, and the honest thing to say about it is that there is no formula, only the method we have had all along: widen the context, seek the deeper agreement, make the most coherent choice you can across the widest reach you can take in, then watch what happens and let it teach you. A morality that promised to convert every dilemma into a sum would be lying. This one does not. It tells you the direction with confidence and admits, where honesty requires, that the exact step is a matter of judgment exercised in the open. (The full case for why this is a strength and not a weakness, and why no single measure of coherence could even exist, is in the back of the book.)

And here I owe you one flag and one deferral. The flag: because all of this is assessment, and we established long ago that there is no assessment from nowhere, morality is always judged *from the perspective of an agent* — there is no moral score floating free of any valuer, only better and worse as weighed from within some widening circle of concern. The deferral: that innocent-sounding point has a startling consequence for the oldest question in practical ethics — *who and what counts?* — and the answer this framework gives is genuinely surprising and genuinely uncomfortable, surprising enough that it has earned its own full treatment rather than a

hurried paragraph here. I am naming the question now and promising to face it squarely; I am not going to pretend to settle it in a clause.

## **The three old answers**

We can return, finally, to the room that came apart — to the consequentialist, the rule-keeper, and the one who spoke of character — and give each of them their due, because each was right about something, and the something can now be located.

The one who said morality is about *consequences* had hold of the feedback. They saw, correctly, that what an action actually brings about in the world is how we learn — that values and methods are disciplined by results, that an arrow with no feel for outcomes is flying blind. They mistook the feedback for the whole, but the feedback is real, and it lives in this framework as the engine of all refinement: we find out whether we were right by what happens.

The one who said morality is about *rules* had hold of something subtler and easy to mock: the immense value of hard-won, compressed wisdom. A good rule — keep your promises, do not kill — is a piece of coherence so reliable, so tested across so many contexts, that we are usually wise to follow it without recomputing from scratch, the way we trust an old map of well-traveled country. They mistook the compression for a foundation, and forgot that the rule is answerable to the coherence it summarizes and can be revised when the territory changes. But the rules are real, and they are precious, and this framework explains exactly what they are and when to trust them.

And the one who spoke of *character* had hold of perhaps the deepest piece of all: that morality finally lives not in isolated acts but in the standing shape of an agent — in a values-model and a methods-model grown coherent and wide and bound together into a person you can rely on. A good character just *is* a well-formed arrow, pointed outward and

steady. They mistook the well-formed agent for the definition of the good, when it is better seen as the good's most reliable carrier. But they were closest, in a way, to the spirit of the whole thing: that what matters is not the rule or the tally but the direction a whole life is facing.

Three answers, three real fragments of one moving thing, each frozen into a destination by people who could not yet see the arrow they were all describing from different sides. The framework does not refute them. It puts them where they belong.

## **What the whole climb was for**

Step back and look at what has happened across these six chapters, because the shape of it is the final point.

We began in a universe with no values in it at all, and watched value switch on the moment something began working to keep itself alive. We watched that something build a world from a perspective, come to care through a model of what matters, learn to act through a model of what works, and grow outward from a single self into the great composite selves of family and community and beyond. And now we have seen that the whole long climb has a *direction* written through every level of it — the same direction, wearing different clothes at each scale: more coherent, over a wider world. Value coherent over widening context. Method capable over widening scope. A self inclusive over a widening circle of care. Agreement deepening as the reach extends. They were never separate principles. They were one arrow, seen at six magnifications.

This is the last of the quiet turns the book has asked of you, and the one all the others were for. We are used to thinking of morality as a set of *fixed rules* — a code, handed down, that we either follow or break. What we have arrived at instead is morality as a *direction of growth* — not a code to obey but a way to keep facing, and to keep walking, into a wider

and more coherent world. Rules have their place inside it, as compressed wisdom. But they are not the thing. The thing is the arrow.

We have built it. We know now what morality *is*. What remains — the whole of the second half of this book — is the harder and more human question of what it is to actually *live* this way: across a single life, inside a real community, under real pressure, with a real future bearing down. Knowing the direction is not the same as walking it. That is where we turn next.

## One sentence

It was, by Tara's count, the fourth "tomorrow's conversation," and she had stopped letting him off the hook. They were on Abel's back step. Soup — much larger now, and insolent with health — was attempting to lie down on the exact page of the notebook Abel was not quite using.

"One sentence," Tara said. "You promised. What's the right thing to do."

Abel moved the cat. "Morality is the drive toward increasing coherence of what you value and how you act, across an ever-widening reach of concern." He said it carefully, the way you'd hand someone something breakable. "More moral the further you carry that. Less moral the more you betray it. That's it. That's the whole thing."

Tara was quiet for a while. "Say it again. Slower."

He did.

"Okay." She turned it over. "So — back to my neighborhood. The fast way to win was to point everybody at an enemy. And that would've made us all really —" she searched for his word and refused it — "really *of one mind*. Tight. Sure of ourselves." She looked at him. "And by your sentence that's not winning, it's *losing*, because we got tight by making

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the circle small and mean. We got more in-step by caring about fewer people.”

“That,” said Abel, “is the entire book, said better than I just said it.”

“Don’t.” But she was almost smiling. “And the slow way — getting all the different people to actually hold together, newcomers and old-timers and the ones who scare each other — that’s harder and uglier and slower, and it’s the *right* way, because the circle gets *bigger* instead of smaller. More coherent over more people instead of less.” She frowned. “Even when it barely works. Even when we only get an inch.”

“An inch in the right direction is the only kind of moral progress there has ever been,” Abel said. “There’s no finish line. There’s just which way you’re facing, and whether you took the step.”

Soup reclaimed the notebook. Tara watched the cat for a moment — half a pound of stubborn life, once, grown into all of this — and felt the whole strange ladder of it, cell to kitten to the two of them to the neighborhood to whatever came next, lined up in a single direction like iron filings.

“All right,” she said. “I believe you. I think you’re even right.” She stood, brushing off. “But knowing the direction and actually *walking* it, mile after mile, year after year, with real people who are tired and scared and don’t read philosophy —” she shook her head. “That’s a completely different problem. That’s not knowing what’s good. That’s *doing* it, for a whole life, in a real place.”

Abel looked up at her, and for once he did not reach for the macro, or the theory, or the clever last word. He just nodded.

“Yes,” he said. “It is. And that’s the part I’ve never been any good at.” He scratched the cat’s ear. “You’re going to have to teach me that half.”

## Chapter 7 — Meaningful Growth

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A compass is a wonderful thing to own and a useless thing to merely possess. You can hold it in your palm, admire how the needle swings and settles, understand precisely how it works and what it points to — and freeze to death in the woods all the same, because knowing which way is north is not the same as walking. We have spent the first half of this book building a compass. We know now what morality is: not a destination but a direction, the drive toward increasing coherence of what we value and how we act across an ever-widening reach of concern. That is real, and it was hard-won, and it is — by itself — not yet worth very much. A direction is only worth what you do with your feet.

So the book turns here. Everything until now has been about the *what*: what value is, what an agent is, what it knows and cares about and does, what morality itself comes to. Everything after this is about the *how* — how a person actually walks this direction across a whole life, how a community walks it together, how a civilization walks it across generations, under real pressure, with tired and frightened people who have never heard the word “coherence” and never need to. Tara had it exactly right at the close of the last chapter. Knowing the direction is one thing. Walking it, mile after mile, year after year, in a real place, is a different thing entirely, and the harder one. The rest of this book has a name for that walking, and the name is *meaningful growth*.

## Growth that means something

We have to be careful with the word “growth,” because it is one of the most abused words we have, and the abuse points straight at the trap this whole book has been built to expose.

Almost everywhere you look, “growth” has quietly come to mean *accumulation* — more money, more power, more reach, more followers, a number that goes up. And accumulation is precisely the kind of growth that can run the arrow *backward* while wearing the costume of progress. A fortune can grow while the person amassing it shrinks the circle of everyone they will count as real. A company can grow while the only thing it is getting better at is extracting. A nation can grow in might while narrowing, year by year, the band of humanity it is willing to see. This is growth in size with no growth in coherence-over-reach — and we have a name for it now. It is the counter-dynamic, dressed for success. More is not the same as better, and a life or a society optimized for *more* will, sooner or later, buy its impressive numbers at the price of everything the numbers were supposed to serve.

*Meaningful* growth is the other thing — the thing the whole arrow points at, now seen at the scale of a life. It is not getting bigger; it is getting *wider and more whole at once*. It is the steady outward movement we have watched at every level of the climb, arriving finally at the level where you live: a values-model growing more coherent as it takes in more of the world; a methods-model growing more capable across a wider scope; a circle of care reaching to include more, at its proper warmth, without abandoning its center. A life is growing meaningfully not when it accumulates, but when the person living it can hold more of reality without flying apart — more truth, more people, more consequence, more difference — and act, on all of it, with more integrity rather than less. That is growth that means something, because it is growth in the only direction that was ever moral.

And it is worth saying plainly, because the contrast with mere accumulation makes it visible: meaningful growth has no ceiling and no finish. You can have enough money; you cannot have “enough” widening of coherent concern, any more than you can arrive at north. There is always more world to take in, always a contradiction not yet reconciled, always an edge of the circle that could reach a little further. This is not a burden. It is the thing that keeps a life from ever being *over* while it is still being lived — the reason a person can go on becoming, genuinely, until the very end.

## **The good life is a verb**

There is an old word for a life that is going well in the deepest sense — not pleasant, necessarily, not lucky, but *good*: the Greeks called it *eudaimonia*, usually translated, badly, as “happiness.” It is the right word to end Part One on, because what this framework does to it is exactly what it has done to every other fixed thing in the book.

We are trained to think of the good life as a *state* — a condition of arrival, a place you finally get to and rest. *I’ll be happy when*. When the goal is reached, the house is bought, the pain is gone, the children are safe, the work is done. Happiness-as-destination. And it has the same defect every destination in this book has turned out to have: it isn’t there. The people who reach the *when* discover, with a familiar sinking, that the horizon has simply moved, because a human being is not the kind of thing that arrives and stops. We met this truth first as physics and last as morality, and here it is again, wearing the most personal face it has: a self is a process, and a process cannot be *finished* and still be itself. A life held still is not a life perfected. It is a life over.

So the good life, on this view, is not a state but a *direction* — the same direction as everything else. To flourish is not to have arrived at coherence and reach but to be *in the ongoing motion of widening them*: to be growing, meaningfully, right up to the end. The flourishing life is not the one that

## Chapter 7 — Meaningful Growth

has solved itself. It is the one still reaching — still taking more in, still loving more widely, still becoming more whole — and finding, in that reaching itself, not the means to the good life but the substance of it. Eudaimonia is a verb. This is only the first word on it; the good life gets a chapter of its own further on, where we can do it justice. But the shape is already clear, and it is the shape of everything: not a place to get to, a way to keep going.

### The walking

What, then, is the second half of this book?

It is this same direction, walked outward — the widening we have watched at every scale, now taken up on purpose, ring by ring, by tired and hopeful people in a real place. It begins not with us but with what we *inherited*: every moral code our species has built — the religions and the philosophies, the folk wisdom and the newest movements — each in its own dialect already reaching the same way, so that walking the arrow turns out to be less an invention than the oldest thing we do, finally done deliberately. From there the circle widens. It starts closest in, with the *self* — the slow work of re-cohering the narrow, ancient drives we were born with, and what a flourishing life actually comes to once we stop chasing the *when*. It widens to the *we* — the hard labor of deciding together, and the traps that pull a “we” inward instead of out: the races to the bottom that no one chooses, the old suspicion between strangers and nations, the buying of safety at the price of freedom. It widens further, to the whole living world and the long reach of time — what we owe the creatures and the generations who cannot speak for themselves, and the architecture that lets a vast and various people grow coherent *without* being flattened into one. And it ends looking down an open road — not toward a destination, never a destination, but toward a future we make by walking it, which is the only kind there has ever been.

That whole outward movement is meaningful growth, and it is the spine of everything that follows. I will not pretend the walking is easy, or that the framework makes it easy; if anything, the rest of the book is the long account of how *hard* it is, and how often the cheap narrowing wins, and what it takes — sometimes — to choose the wider way anyway. The compass does not walk for you. It only, if you let it, keeps you from mistaking backward for forward in the dark. The walking is yours.

There is a reason I have left the doing for last and given it the larger half of the book. It is the half I am, frankly, least qualified to write and you are most qualified to read — because you have been doing it, clumsily and bravely like everyone, your whole life, in a real place, with real people, long before any of this had a name. The first half named the direction you were already, at your best, trying to face. The second half is about the road.

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Tara had listened to the whole of it — the arrow, the widening, the one sentence — and when Abel finally stopped she was quiet for a while, watching the light go orange over the lot they had fought so hard to share.

“It’s strange,” she said. “You spent six chapters telling me what I already do on a good day.”

“That’s usually how it goes with philosophy,” Abel said. “The hard part isn’t finding out what’s good. Most people know, in their hands, long before anyone tells them. The hard part is the part you’re better at than I am — actually doing it, on a Tuesday, when you’re exhausted and the room is angry and the cheap way out is right there and it *works*.”

“So that’s the rest of the book.”

“That’s the rest of the book.” He looked, for a moment, almost shy. “I can tell you which way is north. You’re the one who knows how to walk.”

*Chapter 7 — Meaningful Growth*

Tara stood, and stretched, and looked out at the small widened world they had made — the beds and the play-space and the bench at the seam where, just as she'd bet, two old enemies were sitting now in the last of the light, not quite talking, not quite not.

“Then come on,” she said. “Tomorrow’s a long way off, and the walking doesn’t do itself.”

# Endnotes

*Sources, scholarly context, and the author's longer asides — one section per chapter.*

The text is written to be read straight through, without the speed bumps of academic apparatus. Two kinds of note support it, and they are kept deliberately distinct:

- **Footnotes** (marked in the text, a few per chapter at most) carry the occasional aside that is too good to bury — a clarification, a wrinkle, a small pleasure worth having *in the moment*. If you see a marker, it is an invitation, never a duty.
- **Endnotes** (the ones gathered here, *unmarked* in the text) carry the evidence: where a claim comes from, who got there first, and the extended discussion a curious reader might want afterward. Nothing in the running prose points to them, so they never interrupt — but they reward browsing, and they are where the scholarship lives.

Each endnote is keyed to the chapter and to a short **quoted phrase** from the text, so you can find what it attaches to without a marker on the page. In a printed edition the quoted phrases resolve to **page numbers**; in this draft they are the locator.

## Chapter 1 — Where “Better” Comes From

### Endnotes

**“an animal’s *Umwelt*”** — The term and the tick example are Jakob von Uexküll’s, from *A Foray into the Worlds of Animals and Humans* (1934; Eng. tr. 2010). The *Umwelt* is the self-world an organism builds from the signals its body can register — the seed of AoM’s later “window on reality.” The idea that an agent’s world is bounded by what it can sense, model, and act on recurs, formalized, in Levin’s *cognitive light cone*: see the Levin reading note.

**“a vast and shifting landscape of scent”** — On the radical diversity of sensory worlds, Ed Yong, *An Immense World* (2022) is the accessible touchstone; for the dog’s olfactory world specifically, Alexandra Horowitz, *Being a Dog* (2016). <confirm editions>

**“a map, made by a mapmaker who stands somewhere”** — This is AoM’s foundational epistemic commitment: **perspectival realism**. The map/territory distinction is Korzybski’s (*Science and Sanity*, 1933, “the map is not the territory”); the realist-but-perspectival reading draws on Ronald Giere, *Scientific Perspectivism* (2006). Why this is load-bearing — and the burden it carries for everything downstream — is scoped in the foundations note.

**“goodness is out there in the universe the way mass and charge are”** (trap 1) — Moral non-naturalism / robust realism: G. E. Moore, *Principia Ethica* (1903), and Moore’s “open question argument”; in the contemporary literature, Russ Shafer-Landau and Derek Parfit. The complaint that “no one has ever been able to say where in the physics such a thing would live” anticipates Mackie’s queerness argument (next note).

**“value is a fiction ... a warm coat the human mind throws over a cold and indifferent reality”** (trap 2) — Error theory and moral projectivism: J. L. Mackie, *Ethics: Inventing Right and Wrong* (1977),

the “argument from queerness”; the projectivist strand runs through Hume and J. L. Mackie to Simon Blackburn’s quasi-realism. AoM rejects *both* traps in favour of a constructivist relocation — see the is–ought note and the foundations note.

**“order does not have to be imposed on it from outside. It *arises, on its own, for free*”** — “Order for free” is Stuart Kauffman’s phrase (*At Home in the Universe*, 1995). The physics of spontaneous structure far from equilibrium is Ilya Prigogine’s dissipative structures (Prigogine & Stengers, *Order Out of Chaos*, 1984); Bénard convection cells are the canonical example. Background: Schrödinger, *What Is Life?* (1944) on living order feeding on “negentropy.” <confirm: characterization of structure as efficient dissipation leans on maximum-entropy-production / England-style arguments, which are suggestive but contested — keep the claim at the level Prigogine supports>

**“water is wet, a property neither hydrogen nor oxygen possesses”** — Emergence: P. W. Anderson, “More Is Different,” *Science* (1972) — note this is also the seed of the later scale chapter. The “combining-into-more” engine is named **synergy** after Peter Corning (*Nature’s Magic: Synergy in Evolution*, 2003); the major-transitions framing is Maynard Smith & Szathmáry, *The Major Transitions in Evolution* (1995). (*See candidate footnote c1f1.*)

**“the surface on which it can form new combinations grows faster than the system itself”** — This is the scaling result developed in the interaction-surface note: the frontier is Kauffman’s **adjacent possible**, the super-quadratic growth borrows fractal/allometric scaling (Mandelbrot; West–Brown–Enquist) and network laws (Metcalf/Reed; Bettencourt–West). The “bill” side of this is paid off in the chapter on selves made of selves.

**“it works to maintain its own boundary ... the candle ... does not maintain a self”** — The self-producing organization that distinguishes the cell is **autopoiesis**: Maturana & Varela, *Autopoiesis and Cognition* (1980) and *The Tree of Knowledge* (1987). The candle-flame-versus-

## Endnotes

organism contrast and the move from life to mind is developed at length by Evan Thompson, *Mind in Life* (2007). The thermodynamic framing (far-from-equilibrium self-maintenance) connects to the agency continuum in the agency-continuum note.

**“That division — helps me, harms me — is the first and most minimal form of *value*”** — The claim that value/concern enters the universe *with metabolism* is Hans Jonas, *The Phenomenon of Life* (1966) — the organism’s “needful freedom,” its stake in its own continuation. That bare self-maintenance is not quite enough, and that gradient-climbing **adaptivity** is what introduces genuine norms, is Ezequiel Di Paolo, “Autopoiesis, adaptivity, teleology, agency” (2005); the enactivist “sense-making” reading is Thompson and Varela. Defining the agent by what it does (not its substrate) is also Levin’s move: Levin reading note; the continuum from thermodynamics upward is mapped in the agency-continuum note.

**“to say the cell *values* is not to say the cell *feels*”** — The deliberate firewall between *functional* mattering (drawn here) and *phenomenal* experience (deferred). On the hardness of the latter, Thomas Nagel, “What Is It Like to Be a Bat?” (1974), and the “hard problem” (Chalmers, 1995). AoM takes up felt experience much later and does not smuggle it in here.

**“probe the edges of what their position newly makes possible”** — The outward reach: Kauffman’s adjacent possible again; **exaptation** (a capacity evolved for one use borrowed for another) is Gould & Vrba, “Exaptation: a missing term in the science of form” (1982); the way organisms remake the selective landscape is **niche construction**, Odling-Smee, Laland & Feldman, *Niche Construction* (2003). See the interaction-surface note.

**“these very same dynamics *become the thing we call morality*”** — The continuity thesis (morality continuous with, not bolted onto, nature) has its deepest ancestors in the process tradition: John Dewey — see the Dewey reading note — and Henri Bergson’s open/closed moralities — see

the Bergson reading note. For where AoM’s synthesis is genuinely novel versus precedented, see the prior-art positioning note.

**“I am not going to pretend the one follows from the other by some quick deduction”** — The “famous trap a few steps to my left” is **Hume’s law** (*A Treatise of Human Nature*, 1739–40, Bk III): no *ought* follows from an *is* by logic alone; the cognate “naturalistic fallacy” is Moore (*Principia Ethica*, 1903). AoM’s response is not to bridge the gap but to *relocate* normativity into convergence under widening context — set out, with its kin (Habermas’s discourse ethics, Scanlon’s contractualism), in the is–ought note. This chapter only plants the flag; the full argument is a later chapter’s work.

### **Candidate footnotes (for placement in the chapter — “delight” tier)**

These are drafted ready to paste into the chapter file with standard footnote syntax. Cap ~2–3 per chapter; cut freely.

- [^c1f1] — attaches to “*water is wet*” (§How novelty compounds). *Placed*. Definition: “Strictly, a lone water molecule is not ‘wet’ — wetness is a behaviour of many molecules together, an emergent property the parts simply don’t have. The example quietly smuggles in the very point it is making.”
- [^c1f2] — candidate, attaches to “*waiting on the tip of a grass blade*” (§A world made of three signals): “Von Uexküll reported a tick kept alive in a laboratory for eighteen years without feeding — a whole near-empty world, patient to the point of suspended animation, waiting for one of its three signals.” <confirm the eighteen-year figure against von Uexküll before using>
- [^c1f3] — candidate, attaches to “*snuff it out and it is simply gone, having lost nothing*” (§A candle and a cell): “We will keep meeting the candle. It is the running example of everything that organizes

## Endnotes

itself without yet having a stake in doing so — impressive, lifelike, and indifferent.”

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## Chapter 2 — The View From Somewhere

### Endnotes

**“custom, he says, is king of all”** — Herodotus, *Histories* III.38, the Darius anecdote (the Greeks who burn their dead vs. the Callatiae who eat theirs); the line “custom is king of all” (*nomos basileus*) is Herodotus quoting Pindar. This passage is the classical *locus* for cultural relativism — the challenge the chapter sets out to answer.

**“no pane that offers the view from nowhere”** — The phrase and its critique are Thomas Nagel, *The View From Nowhere* (1986): the unreachable aspiration to a standpoint-free conception. AoM takes the impossibility as constitutive rather than a failing.

**“Call the insistence on both clauses at once *perspectival realism*”** — Realism-from-a-standpoint: Ronald Giere, *Scientific Perspectivism* (2006); kin include Ortega y Gasset’s perspectivism and Hilary Putnam’s internal/pragmatic realism. The full defence and the objections are scoped in the foundations note.

**“We are not cameras, receiving an image the world prints on us”** — Perception as active construction descends from Helmholtz’s “unconscious inference”; its modern form is **predictive processing** / the Bayesian brain — Andy Clark, *Surfing Uncertainty* (2016); Jakob Hohwy, *The Predictive Mind* (2013); Karl Friston’s free-energy work. <confirm how heavily to lean on Friston, which is influential but contested>

**“Perception is less a photograph than a running hypothesis ... continuously tested against what comes next”** — The “perception as controlled hypothesis-testing” formulation goes back to Richard Gregory; it is the through-line of the predictive-processing sources above.

**“The self ... is a verb that has learned to wear a noun’s clothes”** — The self as process rather than substance: Buddhist *anattā* (non-self); David Hume’s bundle theory (*Treatise* I.iv.6); Daniel Dennett’s “center of narrative gravity”; Thomas Metzinger, *Being No One* (2003). Connects back to the kitten of Chapter 1 as “half a pound of process.”

**“to see its edges”** — The functional grasp of things: understanding by affordance and use. J. J. Gibson’s **affordances** (*The Ecological Approach to Visual Perception*, 1979); the functionalist commitment is developed in the foundations note.

**“the same job can in principle be done by very different stuff”** — **Multiple realizability** (Hilary Putnam): a function is not tied to one material substrate. This is the seed of the later substrate-independence / extensibility argument — see the agency-continuum note.

**“meaning is relational: it is what something does for an agent, in a context”** — Anti-essentialist, use-based meaning: Wittgenstein’s “meaning is use” (*Philosophical Investigations*); the enactivist “sense-making” of Varela, Thompson & Rosch, *The Embodied Mind* (1991), and Di Paolo. Peirce’s triadic sign (sign–object–interpretant) is the semiotic ancestor.

**“meaning-making within a context”** — The compact phrase AoM reuses; situated/embodied cognition (Clark; Lakoff & Johnson, *Philosophy in the Flesh*, 1999). Strip the context and you reach “silence,” not a context-free signal.

**“Two different things are folded into this one act of construction”** — The split between **sense-making** (rendering a situation intelligible — *what is going on*) and **meaning-making** (rendering it significant — *what*

## Endnotes

*it matters*). The two carry distinct lineages: organizational and cognitive **sensemaking** is Karl Weick (*Sensemaking in Organizations*, 1995) — the retrospective construction of a plausible account of events; **meaning-making** as the making of significance and purpose runs through Jerome Bruner (*Acts of Meaning*, 1990) and Viktor Frankl. A terminological caution worth flagging: enactivism uses “sense-making” for the value-laden bringing-forth of a world (Varela, Thompson, Di Paolo) — i.e., for what AoM here calls *meaning*-making; AoM deliberately splits the two, reserving sense-making for intelligibility and meaning-making for significance. The split is what lets the book route *sense* (function, what works) into the methods-model (Chapter 4) and *meaning* (what matters) into the values-model (Chapter 3). See the foundations note.

**“perspectives ... tend over time to converge”** — The convergence claim and the tree image are AoM’s most empirically contestable bet; the stress-test and its kin (Habermas’s ideal speech, Peirce’s “final opinion” of inquiry) live in the tree/convergence note.

**“Made is not found — but neither is it invented from nothing”** — The constructivist-but-not-relativist middle. Nelson Goodman’s *Ways of Worldmaking* (1978) for worldmaking; the discipline-by-the-world half is pragmatist (James, Dewey). See foundations note and the is-ought note.

**“a tripod, not a circle”** — The reply to the charge of circular/coherentist foundations: each leg also bears weight on its own. Cf. Neurath’s boat and the coherentism/foundationalism debate; the reflective-equilibrium method is in the Rawls/Sunstein note.

## Candidate footnotes (for placement — “delight” tier)

- [c2f1] — candidate, attaches to “*eat the bodies of their dead fathers*” (§Custom is king): “Montaigne would later make the same move with cannibals, and so would every anthropology seminar since:

the surest way to see your own customs is to meet someone scandalised by them.” ‹optional›

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## Chapter 3 — What Matters

### Endnotes

**“A nurse promised a dying man she would not tell his daughter how much pain he was in”** — The collision of honesty, mercy, and a promise dramatizes **value pluralism** and the incommensurability of goods: Isaiah Berlin (values are plural and can genuinely conflict) and Bernard Williams (*Moral Luck*; the reality of moral conflict and remainder). The point that there is no master scale is Berlin’s.

**“what I will call the values-model”** — Treating values as a living, revisable model rather than a fixed list is the process-ethics move; its deepest ancestor is John Dewey on *valuing* vs. *evaluation* (appraisal as hypothesis) — see the Dewey reading note.

**“The list is to your actual values what a snapshot is to a river”** — The river/snapshot figure echoes the process tradition (Heraclitus; Bergson’s *durée*) and mirrors the Chapter 2 treatment of the self. Keep the figure; it recurs for eudaimonia in Chapter 7.

**“A newborn is not a blank slate”** — Against the *tabula rasa*: Steven Pinker, *The Blank Slate* (2002); the evolved starting tilt of human sociality. The “barest atom” of caring in the single cell ties back to the Jonas/Di Paolo material in Chapter 1.

**“recurring families of concern ... care and fairness, loyalty and respect, the protection of what a community holds sacred”** — This is **Moral Foundations Theory**: Jonathan Haidt, *The Righteous*

## Endnotes

*Mind* (2012); Haidt & Joseph; with roots in Richard Shweder’s “big three” ethics (autonomy, community, divinity). On the evolved building blocks (empathy, fairness), Frans de Waal, *Good Natured* (1996) / *Primates and Philosophers* (2006). <confirm which foundations to name; the count has been revised over editions>

**“Our values are not flat. They come in layers”** — The shallow/deep layering, with surface conflicts reconcilable underneath, is the chapter’s load-bearing structure and the within-one-agent version of the tree — see the tree/convergence note.

**“a conflict that is irreconcilable at the surface is often reconcilable underneath”** — The “go deep to converge” claim; kin to Rawls’s overlapping consensus and to the “incompletely theorized agreements” of Cass Sunstein — both treated in the Rawls/Sunstein note (which also lodges the *counter*-challenge: that real agreement often runs shallow, not deep).

**“such a model is *coherent*”** — Coherence as fit among values enters here as AoM’s master criterion; the method of mutual adjustment is Rawls’s **reflective equilibrium** (*A Theory of Justice*, 1971). For why coherence cannot simply be maximized, see the quantifying-coherence note.

**“A values-model becomes *more coherent as its context widens*”** — The central engine: widening context *reveals* contradictions kept in separate rooms. This is the criterion’s distinctive coupling (coherence **plus** mandatory context-expansion) assessed in the prior-art positioning note.

**“There is a cheap way to make a values-model ‘coherent’: shrink it”** — First statement of the **counter-dynamic** (coherence bought by exclusion), foreshadowing Chapters 5–6; its closest ancestor is Bergson’s *closed* morality — see the Bergson reading note.

**“What conflicts resolve by, instead, is *deepening and widening*”** — The denial of a master formula and the “watch what happens and let it

teach the model” method is Dewey’s experimental ethics: see the Dewey reading note.

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## Chapter 4 — What Works

### Endnotes

“**Somewhere right now there is a call center**” — The competent-atrocity opening dramatizes the **moral neutrality of instrumental skill**: means-rationality says nothing about ends. Cf. Hume (reason as “slave of the passions,” *Treatise* II.iii.3) and Max Weber’s distinction between *instrumental* and *value* rationality (*Zweckrationalität* vs. *Wertrationalität*). The con-as-optimizer also prefigures the alignment worry: a capable optimizer pointed at a bad objective.

“**Call it the methods-model**” — The second model, built by the same act–observe–keep-what-works loop as the values-model; the bacterium’s one-move version ties back to Chapter 1. The trial-and-error refinement is universal-Darwinian (variation + selection) applied to know-how.

“**knowing *that* and knowing *how***” — Gilbert Ryle’s distinction, *The Concept of Mind* (1949). The “feel that lives in the doing and cannot be fully written down” is Michael Polanyi’s **tacit knowledge** (“we know more than we can tell,” *The Tacit Dimension*, 1966) — the bicycle is Polanyi’s own example. <confirm Polanyi’s exact bicycle wording if quoting>

“**the same method can be carried in wildly different forms**” — Multiple realizability again (the waggle dance, the water system, the immune cell as one *method*), carrying the Chapter 2 functionalism toward the later case for non-human agents — see the agency-continuum note.

## Endnotes

**“the scope of effectiveness”** — The methods-side counterpart to the values-side “context”: the range over which a method works, and the failure of forgetting where it ends. The “rules change as you scale up” promise is paid off via the interaction-surface note and the chapter on selves made of selves; cf. Anderson’s “More Is Different” (Chapter 1 note).

**“We tend to picture *doing* as a matter of *winning*”** — The finite-vs-infinite reframing is James P. Carse, *Finite and Infinite Games* (1986): a finite game is played to win and end; an infinite game, to continue the play. The chapter previews it and Chapter 5 completes it.

**“the doing, like the caring, is a process and not a possession; a direction, not a destination”** — Competence as ongoing capacity rather than a tally of wins; Dewey’s *ends-in-view* (no terminal end standing outside the activity) — see the Dewey reading note.

**“Effectiveness and worth are two different things”** — The two-axes claim (can-I vs. is-it-worth-it) and the insistence that morality lives only in the *coupling* of the two models. The “widening vs. narrowing values” contrast it flags is settled in the chapter on the arrow.

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## Chapter 5 — Selves Made of Selves

### Endnotes

**“a thought experiment that has been quietly tormenting moral philosophers for two hundred years”** — The “two hundred years” dates it to William Godwin’s notorious burning-house case (*Enquiry Concerning Political Justice*, 1793): save the great man over your own mother, since the impartial good demands it. The modern impartialist target is

Peter Singer (*The Expanding Circle*, 1981) and utilitarian impartiality generally.

**“This is the partiality paradox”** — That a parent who could coolly let their own child burn would be *broken*, not heroic, is Bernard Williams’s “one thought too many” (*Persons, Character and Morality*, 1981) and Susan Wolf’s critique of moral sainthood. Care ethics makes partiality foundational: Nel Noddings, *Caring* (1984). A useful cross-cultural pairing: Confucian **graded love** (愛有差等) vs. the Mohist demand for impartial care (*jian’ai*). <confirm Mohist/Confucian framing before using in text>

**“the deepest fact about selves ... is that they nest”** — Nested agency: Arthur Koestler’s **holons / holarchy** (*The Ghost in the Machine*, 1967); Herbert Simon’s “architecture of complexity”; and, most directly, Michael Levin’s **multiscale competency architecture** — see the Levin reading note. The formal “selves within selves” boundary is Friston’s Markov-blankets-within-Markov-blankets.

**“The kitten is a self made of selves”** — The same nesting stated at the scale of the whole organism: a body is a colony of cells, each itself an agent maintaining its own boundary. The concrete instance of the holon/holarchy and multiscale-competency sources in the preceding note.

**“a beehive genuinely does things no bee can do; a city genuinely acts in ways no citizen intends”** — Real composite agents: the **superorganism** (Hölldobler & Wilson, *The Superorganism*, 2009); collective intelligence; and the **major transitions in evolution** by which smaller units become larger ones (Maynard Smith & Szathmáry, 1995). The city’s unintended action is the spontaneous-order tradition (Smith, Hayek).

**“a sufficiently capable artificial system, pursuing goals and acting at scale, would be an agent too”** — The flag for substrate-independent agency and AoM’s reach to artificial agents — the full case and objections are in the agency-continuum note.

*Endnotes*

**“A larger agent wakes up when smaller agents come to *share* enough of a values-model and a methods-model” — Collective intentionality / shared agency: Michael Bratman (shared intention), Margaret Gilbert (plural subjects), John Searle (collective intentionality); the developmental engine is Michael Tomasello’s **shared intentionality** (*Why We Cooperate*, 2009). The crowd-vs-crew line marks the heap/agent threshold.**

**“a zone of shared values ... surrounded by a penumbra of difference”** — Cohesion without unanimity is Rawls’s **overlapping consensus** (*Political Liberalism*, 1993); see the Rawls/Sunstein note. Managing the ratio of commonality to difference is the “art of keeping a ‘we.’”

**“the bill comes due in the currency of coherence”** — The integration cost that grows faster than the “we” itself is the central result of the interaction-surface note (relationships, not members, are what multiply); the same super-quadratic surface that powers the generative upside. Cf. the policing/cheater-suppression costs in the major-transitions literature.

**“The cheap way is to *cut the cost ... start excluding*”** — The counter-dynamic at the scale of the group: counterfeit coherence by exclusion. Its ancestor is Bergson’s *closed* morality, “always concerned with war” — see the Bergson reading note; cf. Karl Popper’s closed vs. open society and Eric Hoffer on movements that cohere around an enemy (*The True Believer*, 1951).

**“the *infinite* kind: the game whose point is to keep the game going”** — Carse’s infinite game again (Chapter 4 note), now at the scale of cooperating agents; the cooperative surplus is Axelrod, *The Evolution of Cooperation* (1984), and the positive-sum logic of Robert Wright’s *Nonzero* (2000). (*Per the style guide, name the idea, not the coinage, in the running text.*)

**“Your care is most intense at the center ... and it falls off with distance”** — The gradient of concern as the structure that makes care

possible at all (a being who cared equally for all would care for none); Hume on the “limited generosity” of human sympathy (*Treatise* III.ii). This reframes the impartialist’s “expanding circle” as a *widening*, not a *flattening*.

**“It is partiality, learning to reach”** — The chapter’s resolution: partiality is the engine, widening the direction. This is the human face of the one direction stated three ways (context, scope, circle of care), gathered in the chapter on the arrow.

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## Chapter 6 — The Arrow

### Endnotes

**“After three thousand years of the best minds we have, we cannot agree on what we are even talking about”** — The interminability of moral disagreement and the fragmentation of the moral vocabulary is Alasdair MacIntyre, *After Virtue* (1981). AoM reads this not as scandal but as a diagnostic that we have been seeking the wrong kind of thing (a destination, not a direction).

**“Morality is the drive toward increasing coherence ... across an ever-widening reach of concern”** — AoM’s thesis sentence. For where it is genuinely novel versus preceded — a novel *coupling* of coherence with mandatory context-expansion, plus the counter-dynamic as discriminator — see the prior-art positioning note.

**“coherence as a lone virtue ... the precise signature of evil”** — The warning that coherence alone is not a good (and is often the mark of the worst configurations) is what separates this view from naive coherentism. The constructive role of coherence (mutual adjustment, reflective equilibrium) still stands; what fails is coherence *maximized in isolation*.

## Endnotes

**“A cult is exquisitely coherent”** — Coherence bought by amputation: the sealed, internally consistent, reality-excluding system. Bergson’s *closed* society (see the Bergson reading note); Popper’s closed society; Fesinger et al., *When Prophecy Fails* (1956) on belief systems that grow more consistent by reinterpreting every disconfirmation.

**“This is the *counter-dynamic* — the arrow running backward”** — The formal moral discriminator: coherence over a *widening* reach (moral) vs. over a *shrinking* one (immoral), indistinguishable from inside, opposite in direction. This is AoM’s distinctive load-bearing move — assessed against the field in the prior-art note and the tree note.

**“you cannot derive an *ought* from an *is*”** — Hume’s law (*Treatise* III.i.1); the cognate “naturalistic fallacy” is Moore (*Principia Ethica*, 1903).

**“I am *relocating it*”** — The core meta-ethical move: not deriving *ought* from *is* but relocating normativity into what agents converge on under widening context — a **constructivist** account with discourse-ethical kin (Habermas; Scanlon’s contractualism). Stated, with the three objections it must answer, in the is–ought note; the prior foundations in the foundations note.

**“Picture the agents of the world as leaves at the tips of a vast tree”** — The tree of convergence: disagreement shallow at the leaves, agreement deep toward the root. AoM’s most empirically contestable claim (it predicts agreement *increases* toward the root, which much political philosophy denies) — the stress-test is the tree/convergence note; the “go shallow” counter is in the Rawls/Sunstein note.

**“you cannot put a number on it, and ... you do not need to”** — Why no single scalar measure of coherence is required (or possible): verdicts that matter fall out of *direction* (both arrows up, or coherence bought by narrowing), not magnitude. The argument that coherence yields at best a **partial order**, not a cardinal score, is the quantifying-coherence note.

**“morality is always judged *from the perspective of an agent*”** — No assessment from nowhere applies to moral assessment too: there is no valuer-free moral score. The “startling and uncomfortable” consequence for *who and what counts* is **agent-relative moral standing** — deferred here, set out in the agent-relative standing note.

**“the consequentialist, the rule-keeper, and the one who spoke of character”** — The three traditions as partial captures of one moving arrow: consequentialism saw the *feedback* (Bentham, Mill), deontology the *compressed wisdom* of rules (Kant; Rawls), virtue ethics the *standing shape* of the agent (Aristotle; Anscombe’s “Modern Moral Philosophy,” 1958). The reconciliation rhymes with Parfit’s image of climbing the same mountain from different sides (*On What Matters*, 2011). ‹Parfit’s “Triple Theory” is a convergence of Kantian/contractualist/consequentialist views, not virtue — cite as analogy, not equivalence›

### Candidate footnotes (for placement — “delight” tier)

- [^c6f1] — candidate, attaches to “*the same method every time*” (§The arrow runs backward): “The tell is always the same: a worldview that has an answer for *every* objection, including the objection that it has an answer for every objection. Perfect immunity to doubt is not strength; it is a sealed room.” ‹optional›

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## Chapter 7 — Meaningful Growth

### Endnotes

**“A compass is a wonderful thing to own and a useless thing to merely possess”** — The compass/walking figure marks AoM’s hinge from

## Endnotes

theory (the *what*) to practice (the *how*); it reactivates the north/compass analogy from the Introduction. Knowing the direction is not yet traveling it — the gap is the subject of Part Two.

“**‘growth’ has quietly come to mean *accumulation***” — The critique of growth-as-more (money, power, followers, GDP) as the counter-dynamic in disguise: see Tim Jackson, *Prosperity Without Growth* (2009), and the broader degrowth/limits literature (Donella Meadows et al., *The Limits to Growth*, 1972). More-without-wider is narrowing dressed as progress.

“***Meaningful growth is the other thing***” — AoM’s positive notion: wider and more whole at once — the capacity to “hold more of reality without flying apart.” This is the single arrow (context, scope, circle of care) brought to the scale of a life; cf. developmental accounts of integration and complexity (e.g., Robert Kegan’s orders of mind). <confirm whether to invoke Kegan explicitly>

“**the Greeks called it *eudaimonia***” — Aristotle, *Nicomachean Ethics* I & X: *eudaimonia* as the human good, badly rendered “happiness.” Crucially for the chapter, Aristotle already treats it as **activity** (*energeia*) of the soul in accordance with virtue — not a static condition — which AoM reads as flourishing-as-direction.

“**Eudaimonia is a verb**” — The process reading of the good life: a self is a process and “cannot be *finished* and still be itself,” so flourishing is ongoing motion, not arrival. Connects to the self-as-process of Chapter 2 and Dewey’s growth-as-the-end (*Democracy and Education*: “the aim of life is growth”) — see the Dewey reading note. The good life “gets a chapter of its own” later (Eudaimonia in Part Two).

“**this same direction, walked outward**” — The architecture of Part Two: not a list of topics but a single **concentric widening**, walked ring by ring — from the moral *inheritance* every tradition has built (morality as ongoing cultural evolution), inward to the *self* (re-cohering our inherited drives; the good life), out to the *we* (deciding together; the multipolar traps and the escape into a wider “we”), to the *widest circle* and the **process**

## Chapter 7 — Meaningful Growth

that sustains it (what we owe the living world and the generations to come; coherent pluralism), and finally an open road — a future made by walking, never an arrival. Named rather than numbered, because Part Two is a living, extensible collection.

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*Add a ## Chapter N section as each chapter stabilizes. See Conventions for working with Claude for the markup and the footnote/endnote drafting mechanics.*



## About the AoM Project

For the length of this book I have stayed behind a particular voice — careful, fond of the long analogy, willing to take its time. That voice is a sensibility I built for the work; it is close to me but it is not quite me. Here, at the back, I want to step out from behind it and say, in plainer words, where this came from, why I couldn't leave it alone, and what I hope it is for. There is a reason this belongs inside the book rather than beside it: the way the book is made turns out to be the argument the book makes. I'll come to that.

### Where it came from

As far back as I can remember I was a scientist of two worlds at once — the natural one (a microscope and chemistry set at seven, my father's old high-school chemistry and physics texts read for pleasure at nine) and the social one, which I watched more than I joined. I was the smart kid who didn't quite fit, more at ease with ideas than with crowds. I understood animals — dogs especially — more readily than people, and felt early that they live in worlds as whole as ours and simply different; years later I would meet the word *Umwelt* and recognize something I had always known. And somewhere in my early twenties, in an unguarded moment, a sentence arrived and stuck: *wisdom is seeing the edges*. I wrote it down on the spot. It took me decades to learn how much it held — it is, in the end, a good part of what this book says about how anything comes to know anything.

## *About the AoM Project*

From childhood my deepest pull was to understand and to share high-value ideas — to help people see a little past the frame they had been handed. At eight I was given a Bible and read it cover to cover. I came away moved by it as an expression of humanity’s early, earnest reach for meaning, and spent the next few years trying to talk about *that* with the people around me. It did not go well, and I learned — slowly, and not without some loneliness — how hard it is to raise the level at which a conversation happens. I eventually came to see that as a worthy problem rather than a reason to stop. In one form or another I have been working on it ever since; this book is the most patient attempt.

I came by the book’s two halves of agency honestly. My mother ran a preschool out of our home for forty years; the house was always full of children and dogs, and she taught caring as a practice, not a sentiment. My father, a carpenter who became a builder, took me along most weekends and taught the other half — how to make a thing actually stand up — along with his maxim, aimed at a boy who was forever reading: *you can’t learn everything from a book*. Care and competence, the two models this whole framework rests on, were modeled at my own kitchen table long before I had names for them.

I did not take the college road. I followed the magic of radio into electronics, and then into scientific instruments — field service, a technical-service operation in Japan, another decade managing service back in California — before coming full circle to radio and information technology, this time for County government, raising two children along the way and reading philosophy in the margins of a technical career. In my twenties I spent years studying Zen, and came out feeling I had understood it and no longer needed to carry it — but it permanently shaped how I see the self, the relationship of the observer to the observed, and my thinking on processes vs essences. In the late nineties, on the early internet from Tokyo, I found the Extropian and transhumanist mailing lists and debated there for years — usually as the one insisting that intelligence and technology had to be pointed at wiser *collective* choices, not merely individual advantage. I kept pressing people to widen their context, which was not a good match for

## What I hope it is for

what these mainly Libertarian-leaning rooms were about, with little or no progress except in refining my own thinking.

Then, around 2003, reading Robert Wright’s *Non-Zero*, the thing I had been circling for two decades arrived almost whole: *increasing coherence over increasing context*. That phrase has been the seed of everything since — including, eventually, this project.

## What I hope it is for

I don’t think of this as an answer so much as a compass. We are, it seems to me, moving into a genuinely pivotal stretch — our capability outrunning our wisdom, the context expanding faster than our ability to stay coherent inside it. I have come to care, personally and a little unreasonably, about how that goes. The most I hope to offer is a way of telling forward from backward that doesn’t depend on a god, a destination, or a final rule — only a direction that anyone, in any tradition, can check for themselves. If it helps even a few people navigate by that, it will have been worth the early mornings.

I write it in the company of others working the same ground — the complexity and systems thinkers, the evolutionary-development community, the Metamodern and “Game B” efforts to imagine a less self-terminating civilization. I share their aim even where I part from them: I don’t reach, as some do, for an Omega Point, a spiritual finish line, or a top-down order to submit to. There is no finish line in what I’m describing — only the open, unending work of staying coherent as the world keeps getting larger.

## **How it is built — and why that is part of the argument**

Here is what I meant about the making of the book being part of the book. I wanted these ideas to reach as wide a circle of readers as possible *without being flattened on the way*. So the project is built as a single hand-authored source — the dense voice you have been reading — from which other editions and translations are generated, with an AI companion planned that can meet readers where they are and talk the ideas through at whatever depth they want.

I could not have built it this way alone, and not only for want of time. The partnership itself — a human source of caring and judgment joined to an AI's reach and tirelessness — is an instance of the book's own thesis: values held coherently at the center, capability extending the reach outward, the circle widening without the center dissolving. The medium enacts the message, on purpose. It is also, quietly, the arrival of something I first imagined as a teenager reading about machine intelligence in the 1970s and argued for on those mailing lists in the 1990s: using our tools to help us think and choose more wisely, together. I have spent a working life waiting for the instrument to become equal to the purpose. It finally has.

## **Where it is going**

For most of my life there was simply never time — there was a career to build and a family to raise, and the book stayed a thing I read toward rather than wrote. A few years ago I decided I was finished building a career, and that I would spend my remaining best hours on what matters most to me. So now I rise by four in the morning and give a couple of hours to this before the workday, and a half hour to learning the piano — proof

to myself, perhaps, that it is never too late to grow in a genuinely new direction, which is most of what the second half of this book is about.

The book is not finished, and is not meant to be. The first half names a direction; the second half is the long, unfinished, very human work of actually walking it — and I am, frankly, better at the naming than the walking. It is a living project, and I expect it to keep growing for at least as long as I do.

## **What shaped this**

A book like this is the visible tip of a long reading life, and I owe it to name some of the shoulders I'm standing on. The foundations — why structure should arise and persist at all — I take from Ilya Prigogine, Stuart Kauffman, and Eric Chaisson. Karl Friston I came to only recently; his active inference has been a confirmation of those foundations more than a source of them. The systems and cybernetics — how a thing holds together — from Ross Ashby, Stafford Beer, Donella Meadows, Robert Ulanowicz, Stanley Salthe, and Buckminster Fuller. The logic of cooperation and conflict from von Neumann, John Nash, Robert Axelrod, and Douglas Hofstadter. The sense of a *direction* — an arrow — from Robert Wright above all, with Francis Heylighen, Peter Corning, and again Fuller and Kauffman. And the texture of meaning, with its refusal of any final destination, from Robert Pirsig, Hofstadter again, Julian Jaynes, James Carse, and years of internalizing Zen by way of Alan Watts, D.T. Suzuki, and others. Before any of them, the science fiction of my childhood — Asimov, Heinlein, Ursula K. Le Guin, Madeleine L'Engle — taught me the first and most useful lesson: that the frame you are handed is never the only one. I'm grateful, too, to the living thinkers and communities working this same ground now, whose company has sharpened the project more than they may know.

*About the AoM Project*

## **A last word**

And I have saved the most important for last. My wife, Lizbeth, has shaped this project by her very nature. We share a core of deeply held values, and our overlapping circles of care for the world keep widening together. Our temperaments are quite different, though, and complementary: different enough to create friction, complementary enough to turn that friction into synergy — together creating and exploring our path of meaningful growth.

# Colophon

**A note on the making.** This book was produced from a single canonical source through a human–AI partnership: the author wrote and holds the source; AI generated its other editions and translations and powers its companion — an instance, in the book’s own terms, of values held at the center while capability extends the reach. Built with [Quarto] from plain-text source; available as web, PDF, and EPUB; set in [typeface TBD]. [Version / date: TBD.]

