

# The Cartographer

## *A Plain English Guide to the Art of Knowing Where You Are Stuck*

And why making the map is harder than it sounds

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### Why You Need a Map Before You Climb

If you've read the first two documents in this exhibition — 'The Pinch' about the Riemann Hypothesis, and 'The Needle's Eye' about the Navier–Stokes problem — you've already met two unsolved problems that have resisted brilliant people for over a century each.

A reasonable question at this point is: why are they still unsolved? Is it just that nobody has been clever enough yet? Is it a matter of time and computing power? Or is something more structural going on?

The Cartographer is the document that answers that question. Not by solving the problems — they remain unsolved — but by building a framework that explains what kind of stuck each one is. Because it turns out there are different kinds of stuck. And knowing which kind you're dealing with is genuinely useful, even if you can't get unstuck yet.

### Three Kinds of Wall

Imagine you're walking through a city you've never visited, looking for a building on the other side of a district you can't quite see into. You might encounter three different situations.

Type	Name	Example
Wall	Just a wall	The Halting Problem — proved impenetrable. No key exists.
Mirror	Perfect symmetry	The Riemann Hypothesis — both sides look identical. No asymmetry to exploit.
Door	Has a mechanism	Navier–Stokes — viscosity is a one-way mechanism. The door is located. Not yet opened.

The Cartographer builds the formal language for deciding which type of wall you're facing. The three types are called Wall, Mirror, and Door, and they are genuinely different situations that call for genuinely different strategies.

### What a Cartographer Actually Does

A cartographer does not climb mountains. A cartographer maps them.

This sounds like a lesser job. It isn't. Before anyone can climb a mountain sensibly, someone has to have worked out where the mountain is, how tall it is, which sides have faces and which have ledges, where the paths run out, and — critically — which mountains cannot be climbed at all and should be walked around.

For each unsolved problem, the framework asks: What part of this problem is 'flow' — the part that yields to careful analysis, that gets easier with better tools? And what part is 'static' — the part that does not yield, that represents the irreducible content of the problem? Flow is the journey to the wall. Static is the wall itself.

## The Map That Updates Itself

Here is something that makes this framework unusual. It does not claim that the walls are permanent.

In March 2026, a theorem was proved — the Corner Theorem — that moved a piece of the Navier-Stokes wall from the 'static' side to the 'flow' side. Something that was previously just observed in experiments was proved to be a mathematical consequence of the equations themselves. The wall moved. Not far. But it moved.

The Halting Problem's wall has never moved. It is provably impenetrable. The Riemann Hypothesis wall has not moved in 167 years. The Navier-Stokes wall moved in March 2026. That is real information. That is what the map is for.

## The Map Cannot Map Itself

There is a beautiful problem at the heart of this framework. The Cartographer classifies other problems. It cannot classify itself.

The Cartographer does not have its own internal symmetry of the kind needed for self-classification. It is a map. Maps do not appear on themselves. To validate the map, you need something outside the map — a referee, a community, a different perspective.

This is not a weakness. This is exactly what Gödel found in mathematics in 1931: a system cannot prove its own consistency from within. The Cartographer inherits this property deliberately. It is honest about the limit of its own reach.

*"The framework locates voids. Its own void must be drawn by something external."*

## Why Knowing Where You Are Stuck Matters

It might seem that knowing the type of wall without being able to cross it is cold comfort. It isn't, for three reasons.

**First: it directs effort.** If a problem is a Mirror, the search for an asymmetric mechanism is structurally wrong. The wall has no door because of what the problem fundamentally is.

**Second: it tracks progress.** The Navier-Stokes wall moved in March 2026. That is a measurable event. Without a framework that tracks void thresholds, this kind of progress is invisible.

**Third: it names what the problem actually is.** The Riemann Hypothesis is not 'a hard problem that nobody has solved yet.' It is a Mirror: a fixed point forced by symmetry with no interior. That is a more precise and more honest description.

*"The value of a map is not that it crosses the mountains. It is that it shows where the mountains are."*

*Art Until Proven Otherwise.*

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