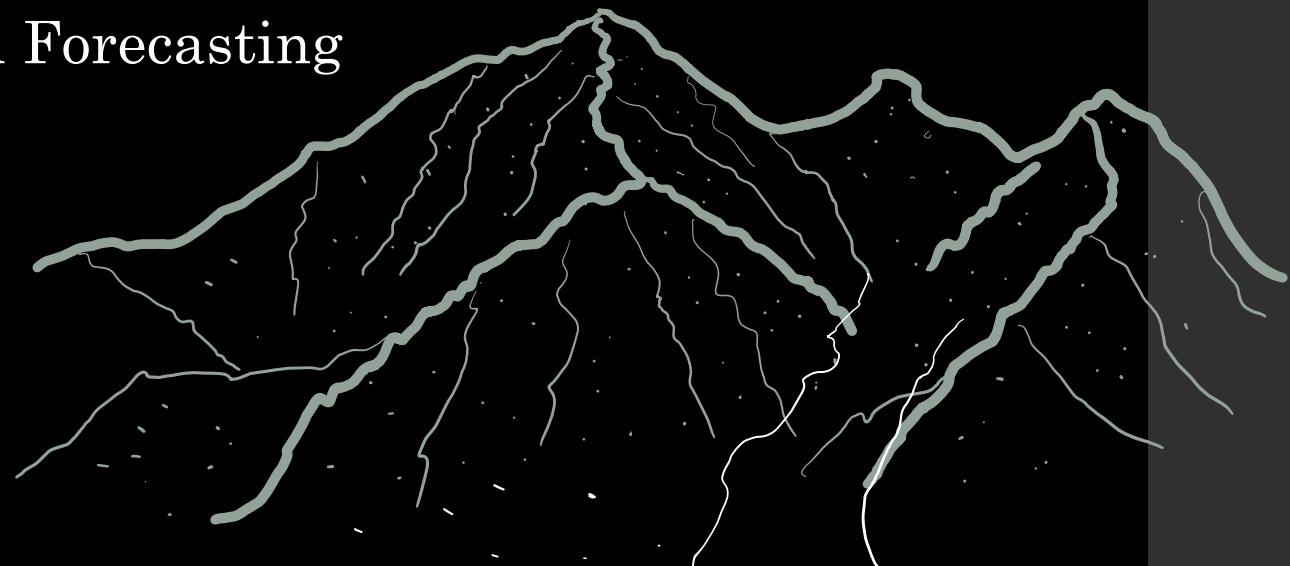


Climbing the Unclimbed Mountain

Better Estimates with Math and Forecasting



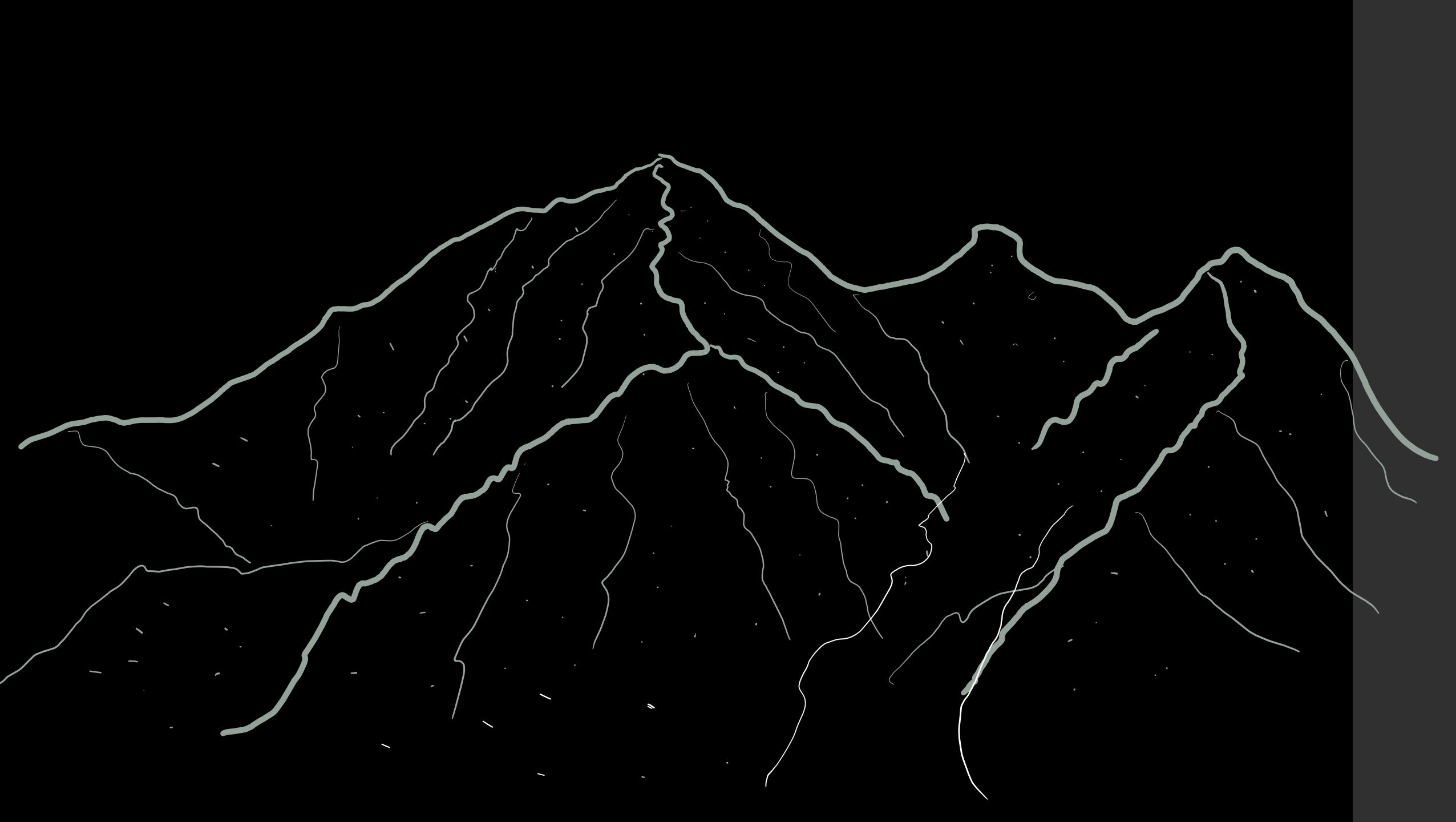


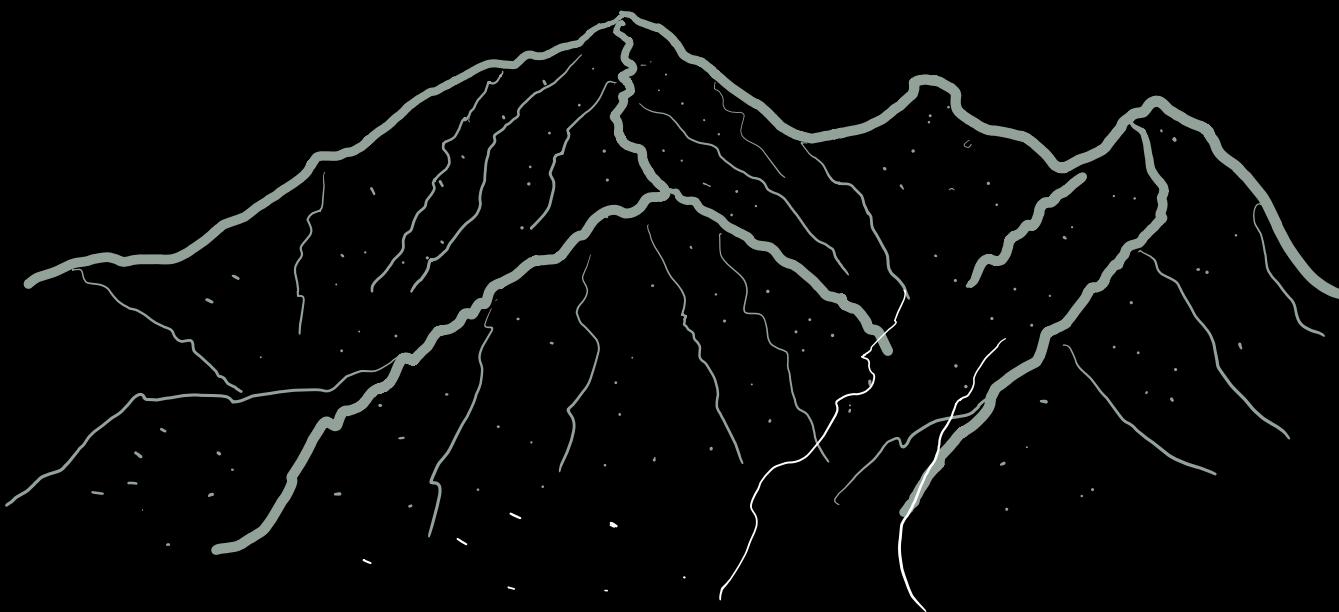
“It may well seem *absurd* to have drawn up plan in London against the distant moment when the final attempt could be made on the top of Everest. Yet only by making some such *plan* and entering into *considerable detail*, only by making certain *assumptions* based on an unfavorable combination of circumstances, could we work back to the size of the party, the quantities of food, equipment and, in particular, oxygen required to achieve success.”

- John Hunt
The Ascent of Everest

“The riddle on the final section was what lay beyond [the south Peak], between the two summits. It could not be seen from the Col so the Swiss had been unable to throw light on the problem. From air photographs in our possession we had the *impression* of a narrow crest of snow or ice, leaning ominously in heavy eaves of snow over the eastern precipice.”

- John Hunt
The Ascent of Everest





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Brand Roland (4) Korg (1)

Price Range \$500 to \$750 (1) \$1000 to \$1500 (4) S to \$

Financing 48 Months (4)

Most Popular 5 Products

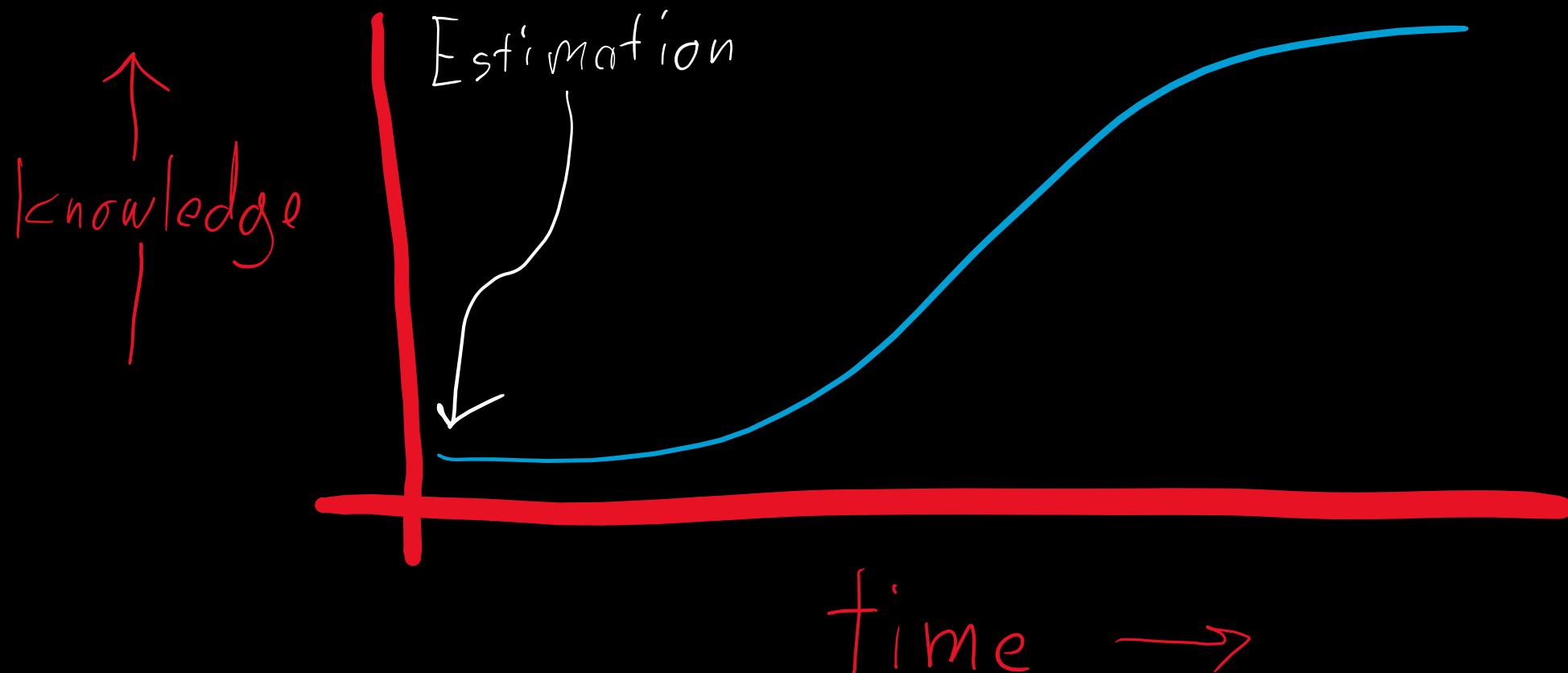
Roland AX-Edge 49-key Keytar Synthesizer - Black
49-key Keytar Synthesizer and USB MIDI Controller with 64-note Polyphony, 500+ Onboard Sounds, Ribbon Controller, and Modulation Bar - Black
\$1,249.99
Or \$26.57/month⁵ with 48 month financing⁶

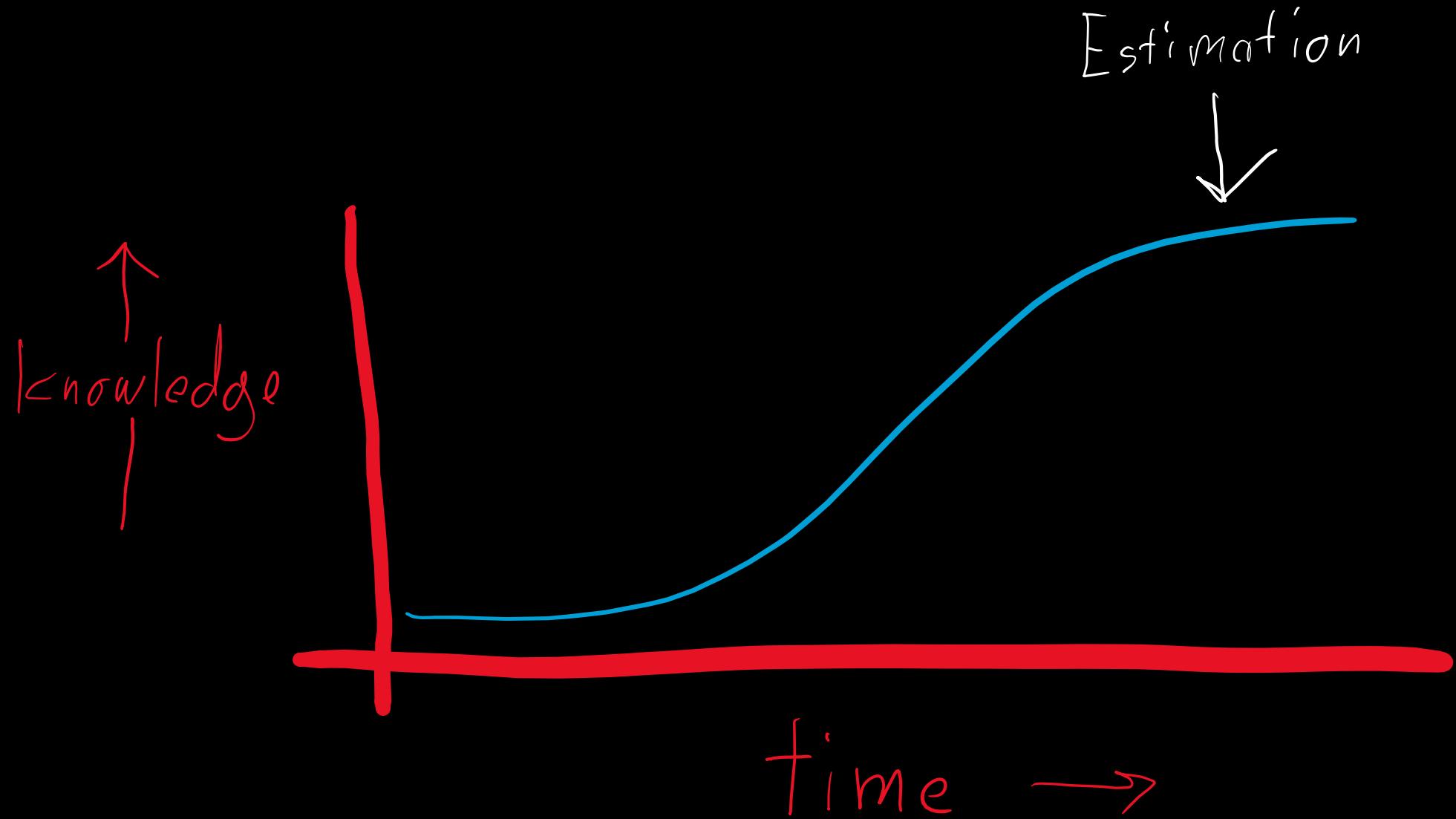
Roland AX-Edge 49-key Keytar Synthesizer - White
49-key Keytar Synthesizer and USB MIDI Controller with 64-note Polyphony, 500+ Onboard Sounds, Ribbon Controller, and Modulation Bar - White
\$1,249.99
Or \$26.57/month⁵ with 48 month financing⁶

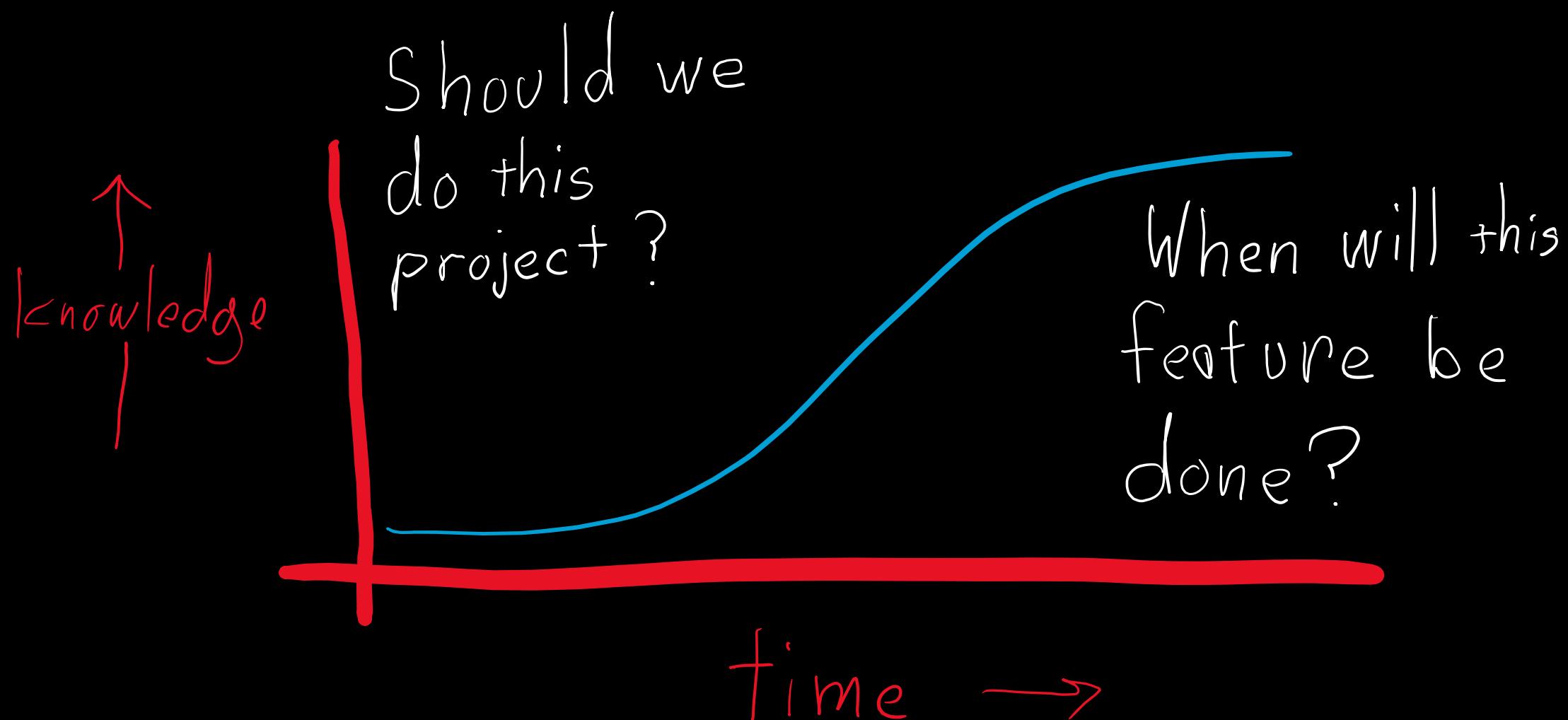
Korg RK-100S2 37-key Keytar (Red)
37-key Keytar with Wooden Body, Velocity Sensitive Keys, Dual Ribbon Controllers, 200 Presets, MIDI Control, and USB Connectivity - Red
\$749.99
Or \$125.00 suggested monthly payment⁵ with 6 month⁶ special financing

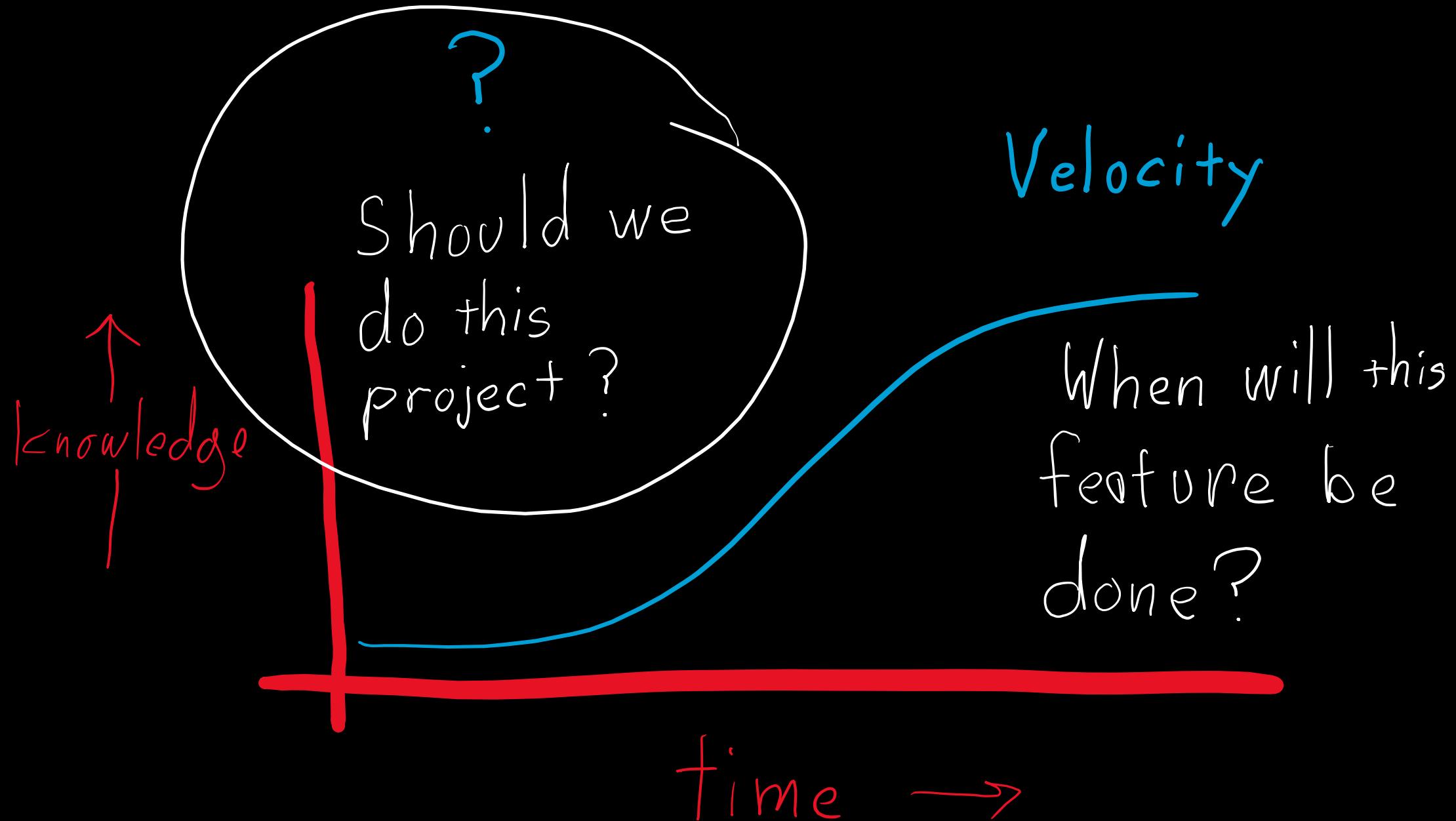
Questions or Feedback? Type your message Or call us at (800) 222-4700

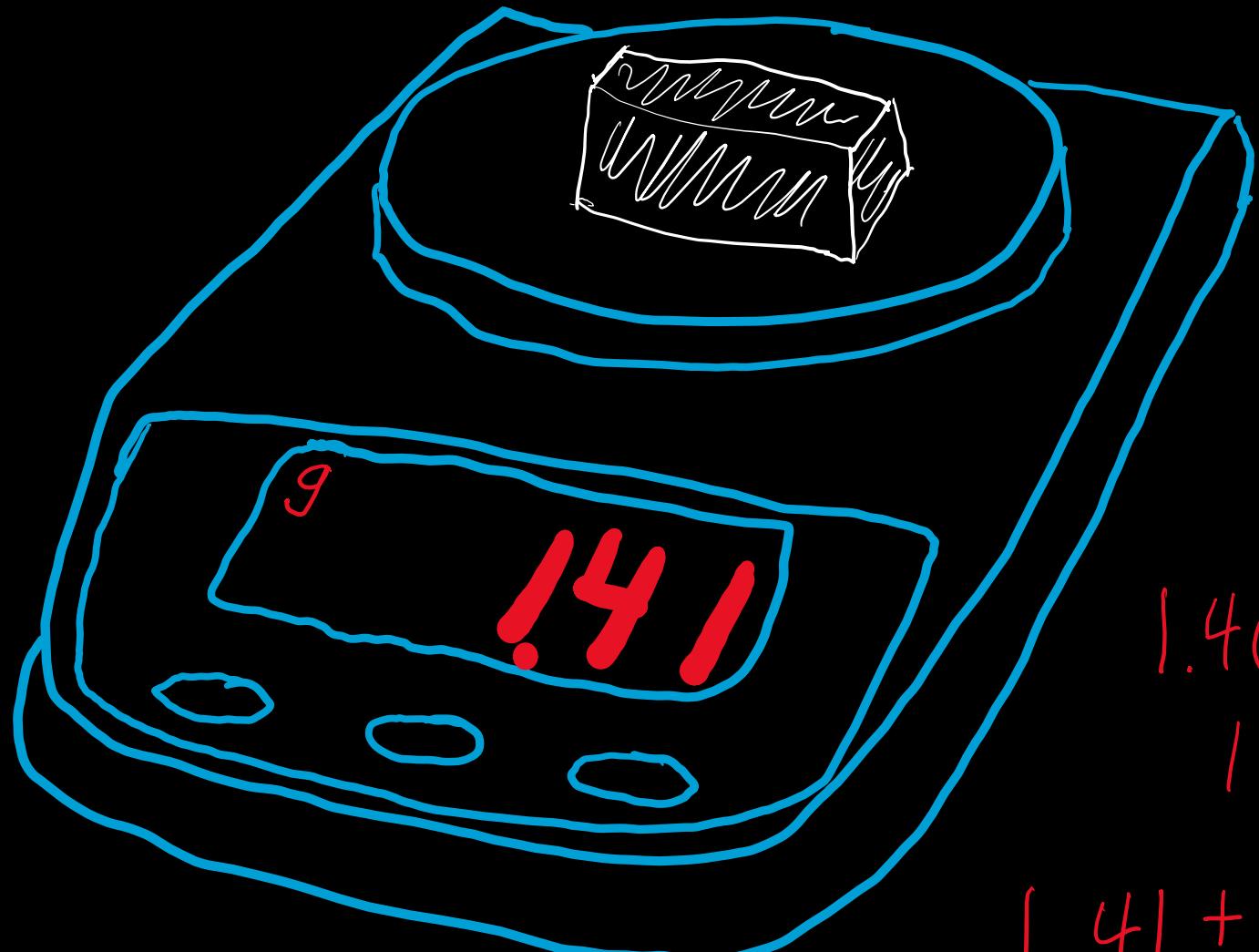
Challenge:









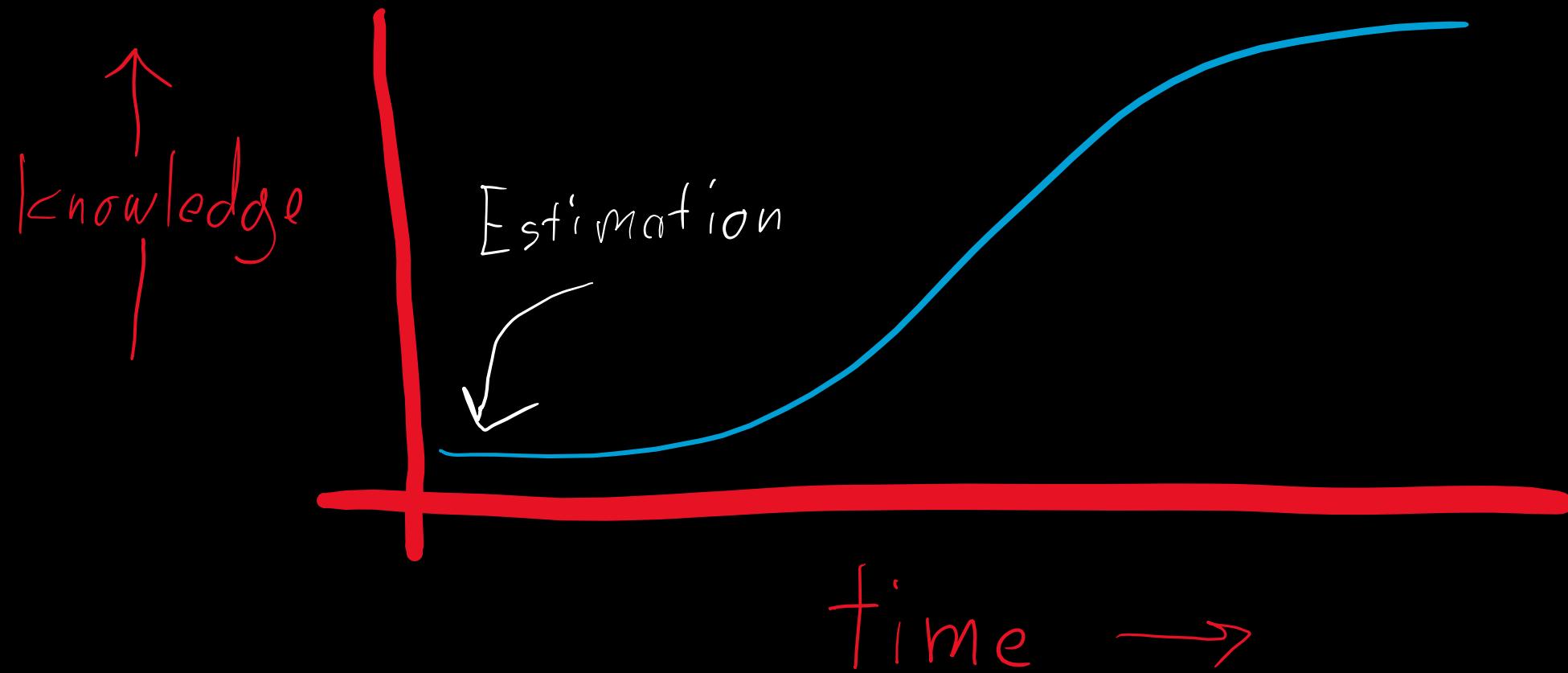


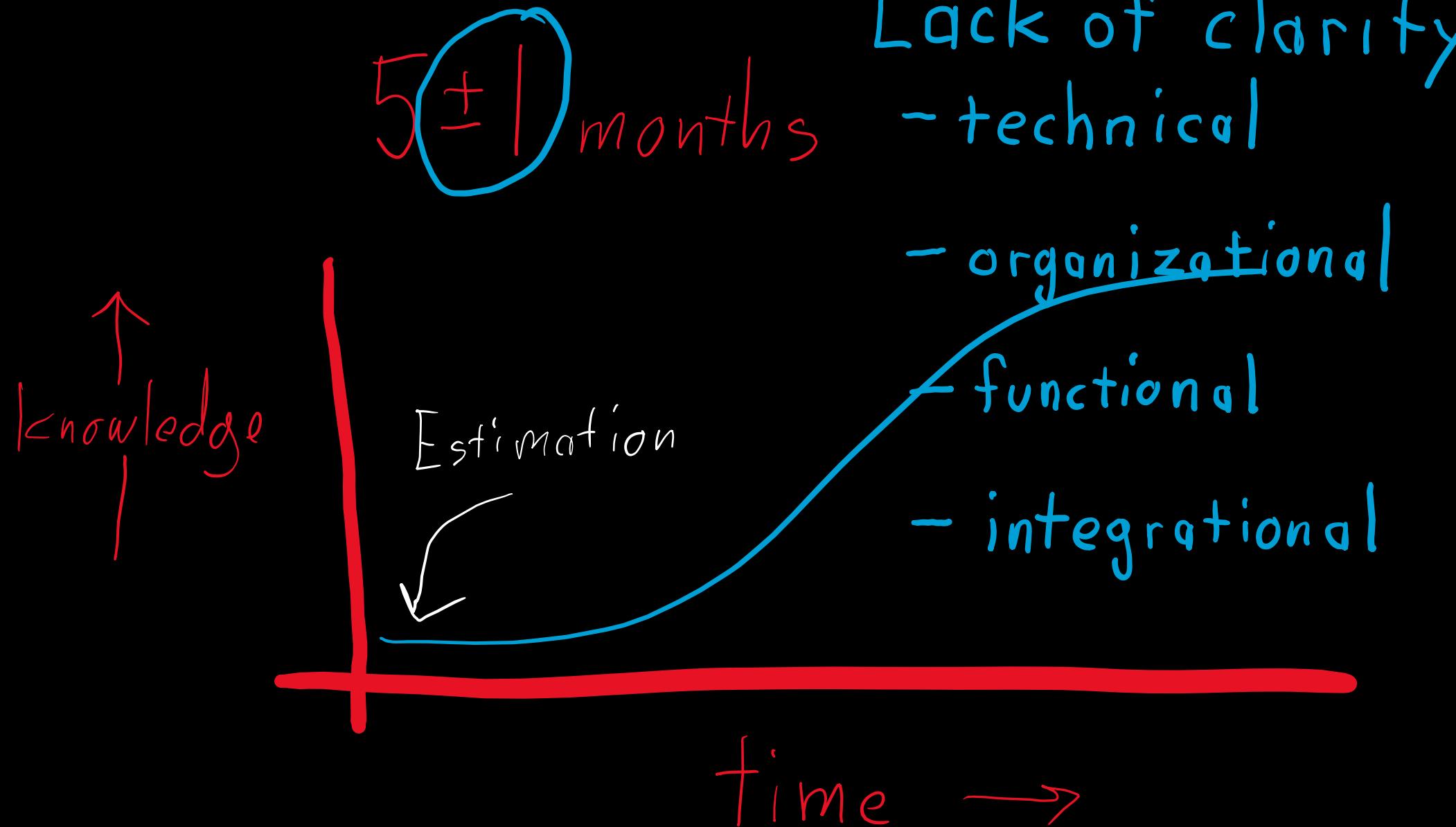
1.406 -

1.415

1.41 ± 0.005

5 ± 1 months





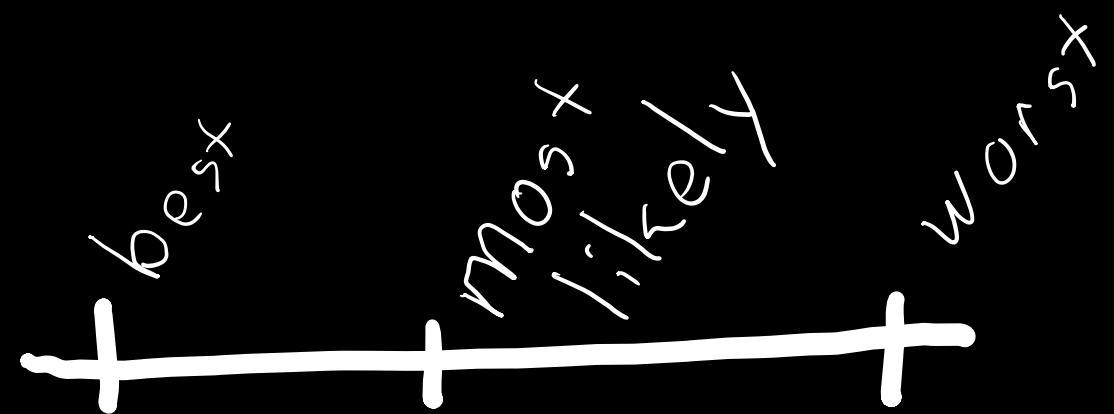
Single value
estimates hide
information.



Clarity



PERT / 3 Point Estimation



Clarity

PERT / 3 Point Estimation



Clarity

No Estimates



Clarity

~~WIP~~ Estimates

Constraints

- budget
- schedule



Estimates != Commitments



Clarity

Estimates != Commitments



Estimates != Commitments



“It is stressed that this is not a firm and final plan; this can only be made at a much later date in the field.”

- John Hunt
The Ascent of Everest

What We Want:

- Better clarity about how long a project could take
- Better communication with stakeholders
- Faster ways to generate estimates

Approach:

- Estimate each line item with a T-Shirt size and a clarity score.
- Calculate a range of potential time values.



Search...

Leader hub

People

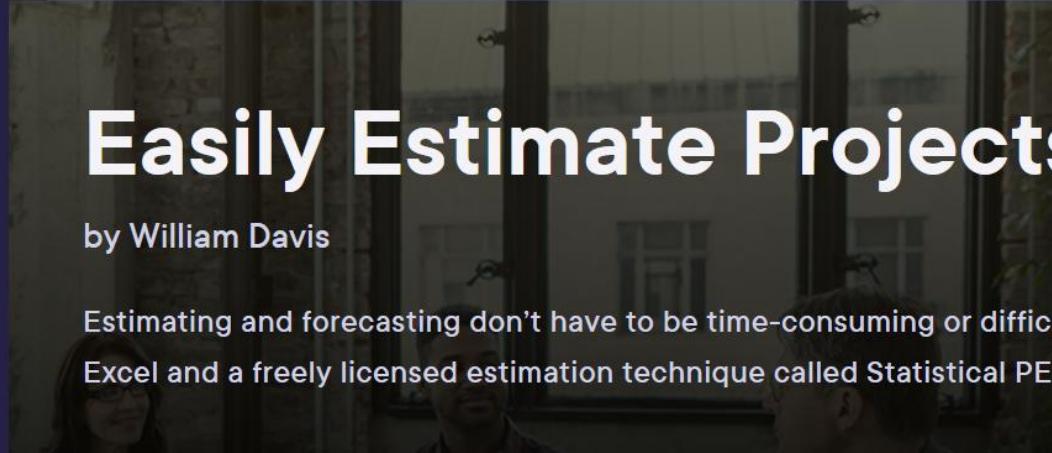
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Hands-on



Two Kinds of Estimates

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by William Davis

Estimating and forecasting don't have to be time-consuming or difficult. This course will teach you how to use Microsoft Excel and a freely licensed estimation technique called Statistical PERT to easily estimate your projects and products.

<https://www.statisticalpert.com/>

Calculated Ranges

T-Shirt Size

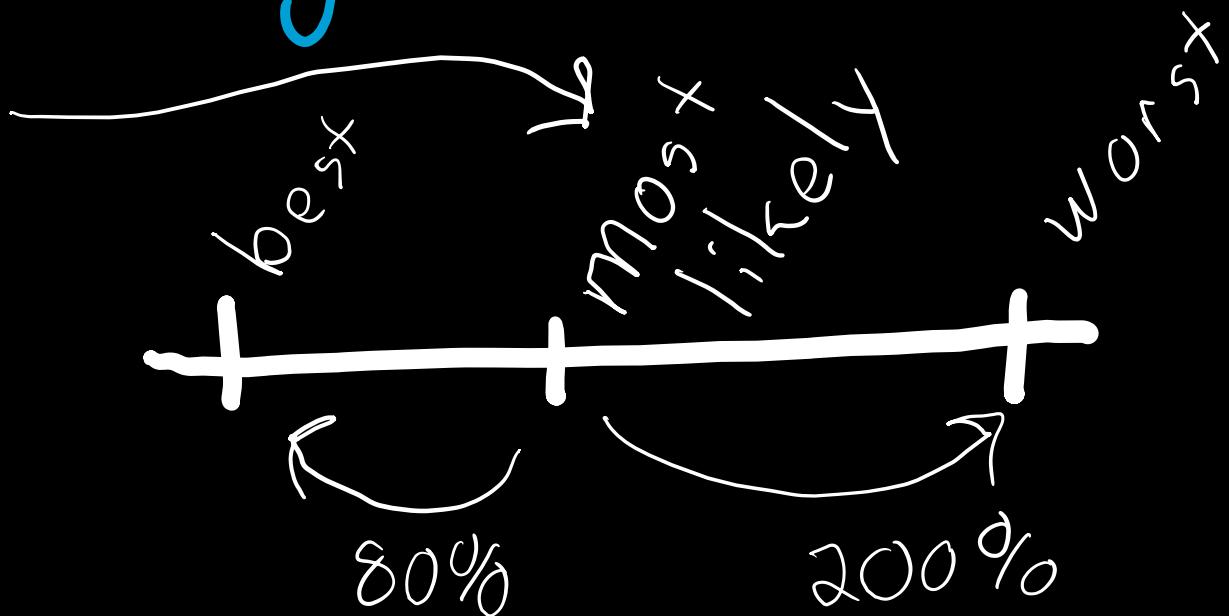
XS - 1 day

S - 2 days

M - 1 week

L - 1 sprint

XL - 2 sprints



Clarity

Calculated Ranges

T-Shirt Size

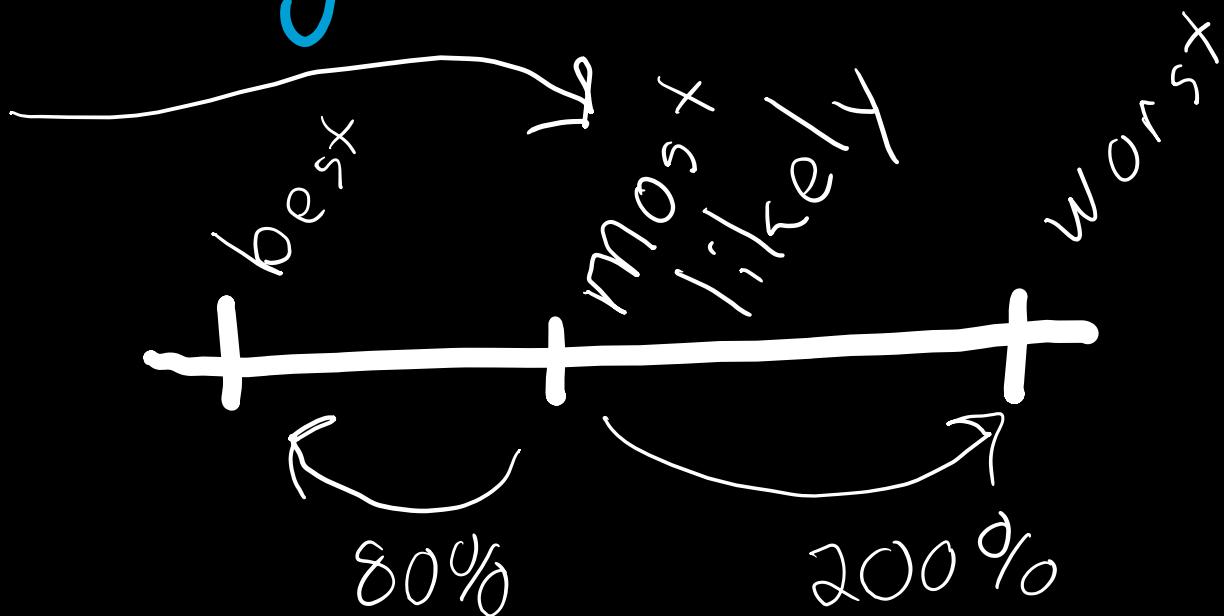
XS - 1 day

S - 2 days

M - 1 week

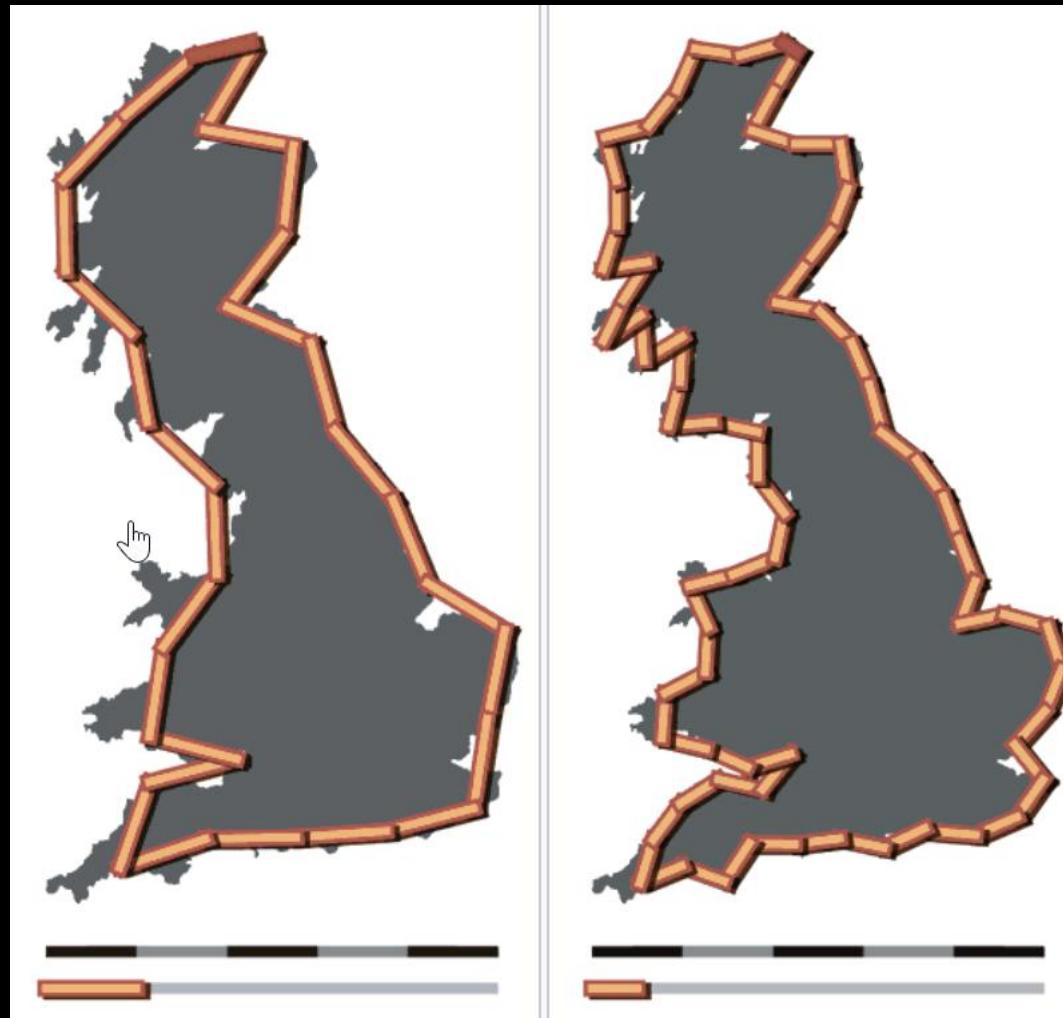
L - 1 sprint

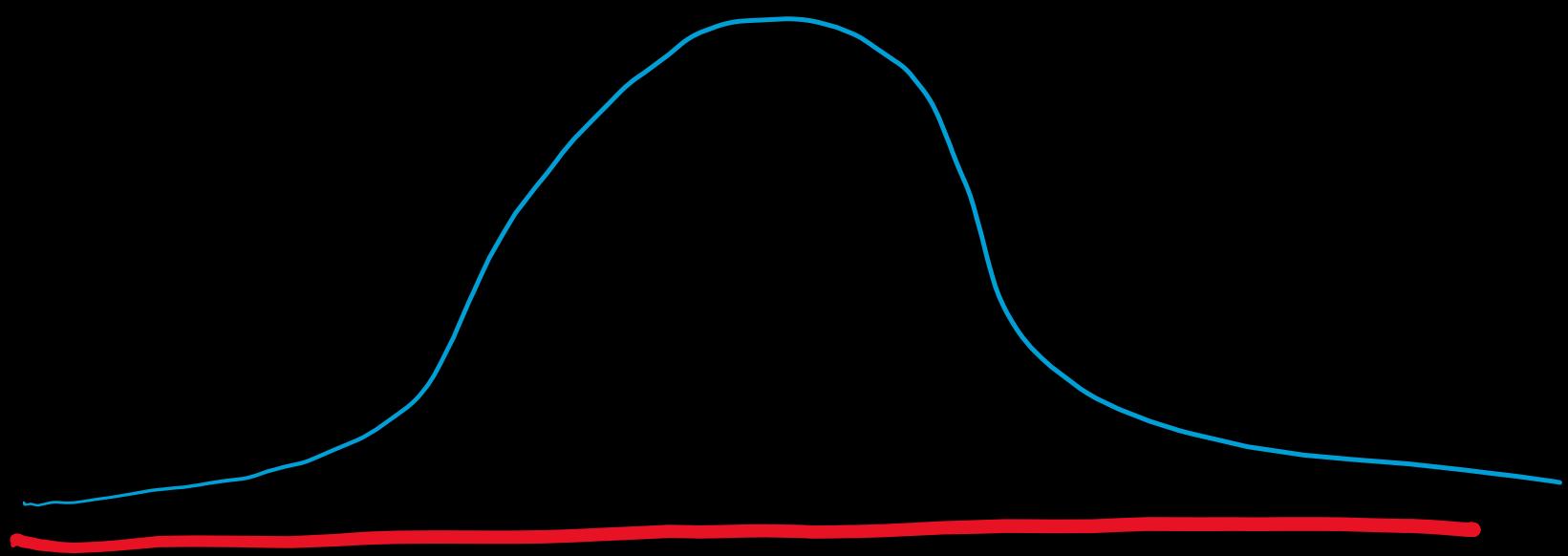
XL - 2 sprints

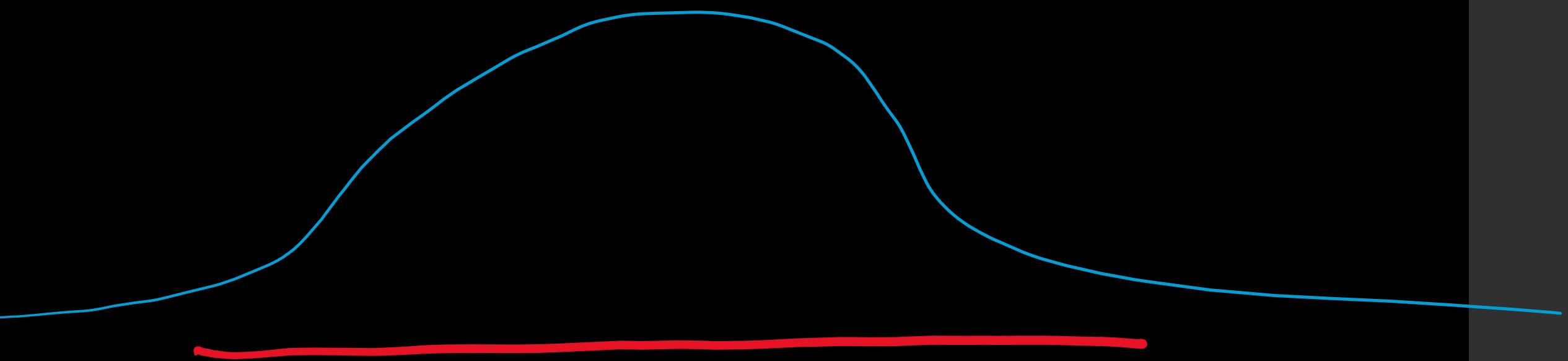


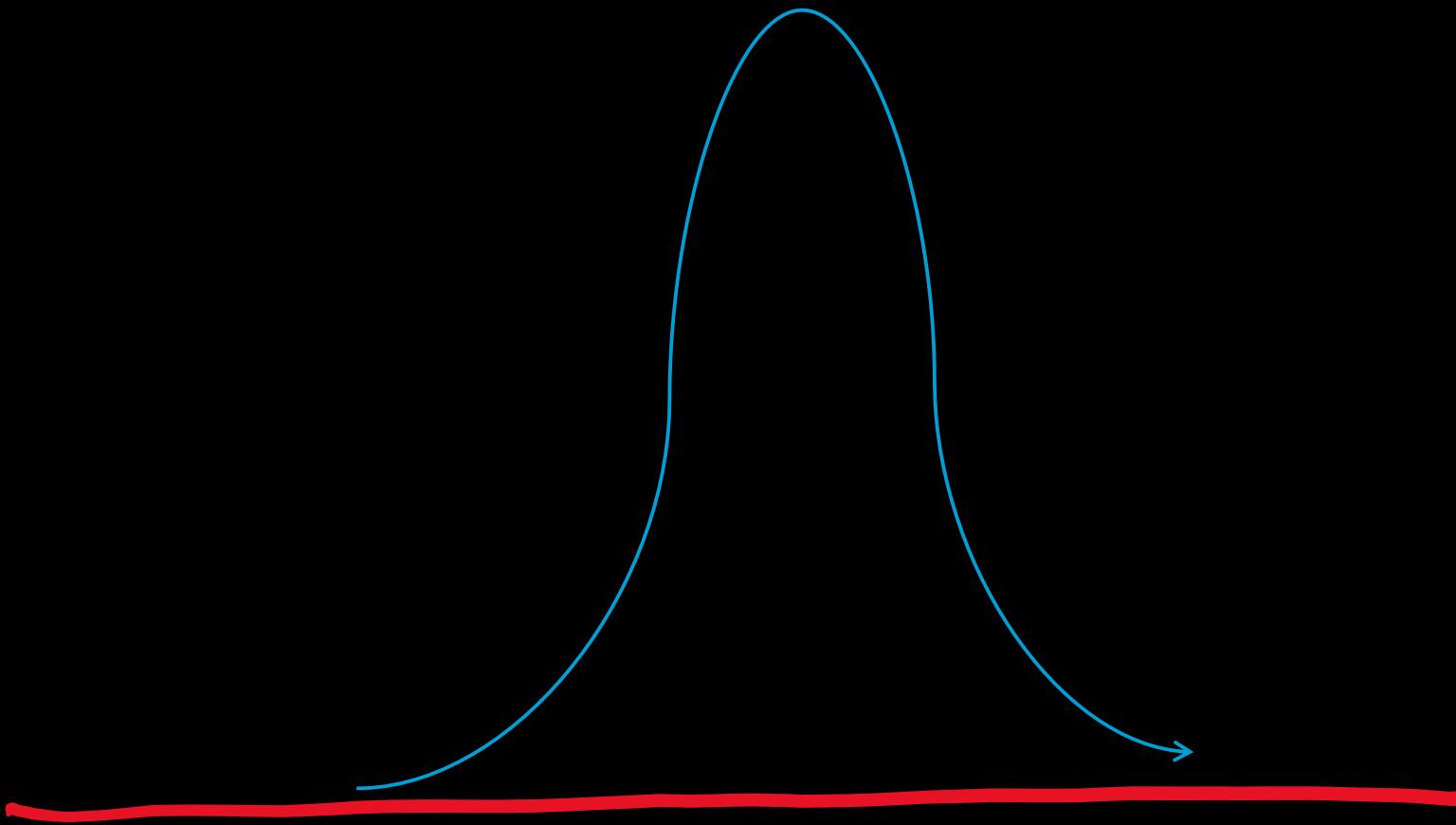
Clarity

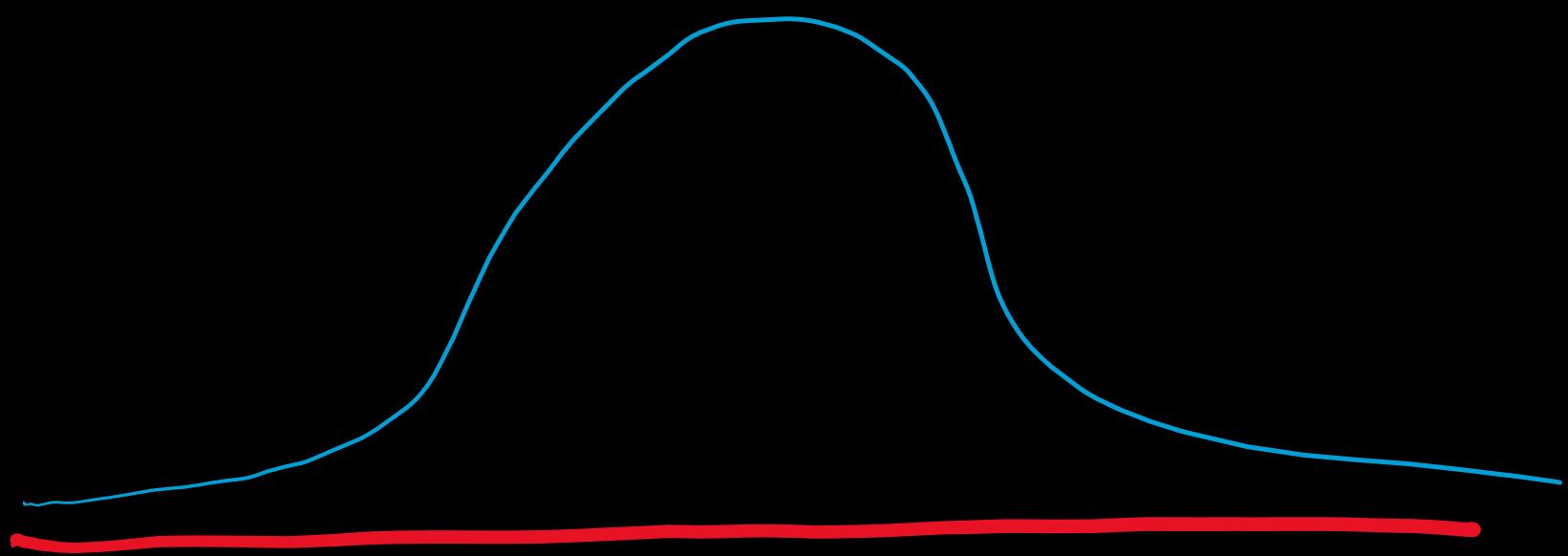
Coastline Paradox

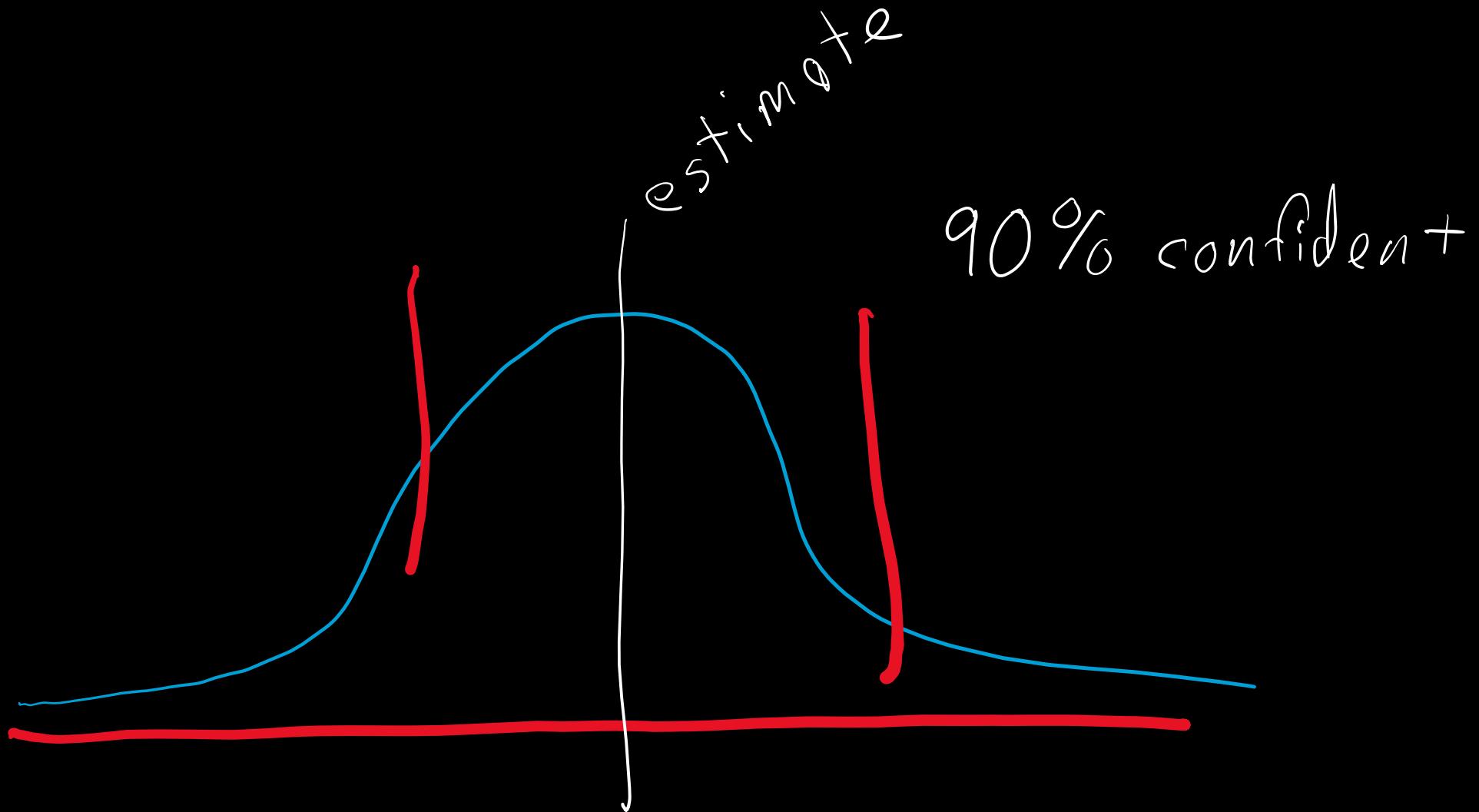










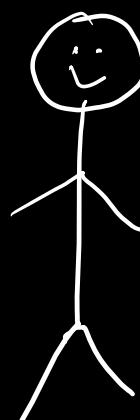


Task	Size	Clarity	
Build UI	M	8	41 - 54
Calc Price	M	3	35 - 65
Tax API	S	4	15 - 25
			91 - 144

Task	Size	Clarity
Build UI	M	8
Calc Price	M	3
Tax API	S	4

lacks functional
clarity

investigate
requirements



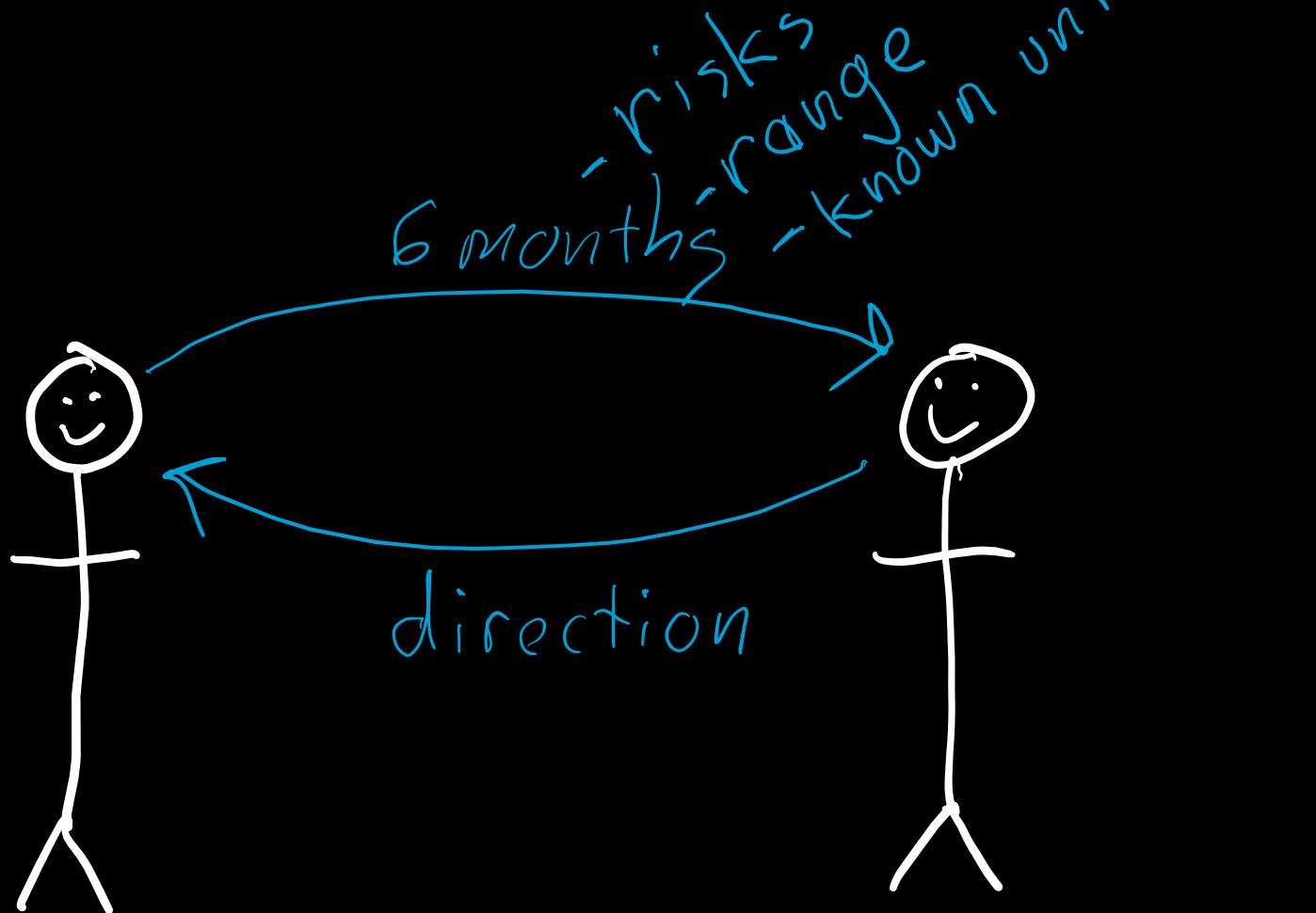
Task	Size	Clarity	
Build UI	M	8	Lacks technical clarity
Calc Price	M	3	
Tax API	S	4	POC



Task	Size	Clarity	Risk
Build UI	M	8	
Calc Price	M	3	VS
Tax API	S	4	Uncertainty

D e m o

Communication

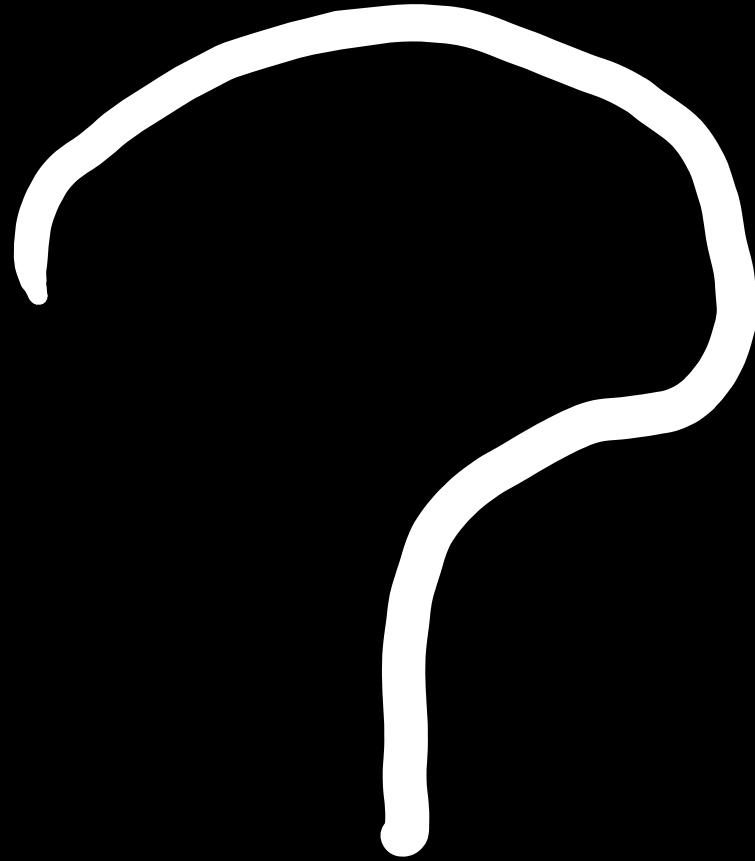


Trade Offs

- communication is still hard
- doesn't prevent scope creep

Other Factors

- sprint ceremonies
- PM/QA/UX/etc
- PTO
- Focus



Task	Size	Clarity	
Build UI	M	8	41 - 54
Calc Price	M	3	35 - 65
Tax API	S	4	15 - 25
			91 - 144



Report the clarity and
range of estimates to improve
communication.