

ESTIMATES ARE EVIL

but can be used for good

Jennie.ocken.org

PRODUCT MANAGERS ARE EVIL

- Different sizes of company
30 <-> 94,000 (~800 in IT)
- Different Business Pressures
SaaS product <-> Internal business applications
Direct sales of development time <-> Development to create services efficiency
- Different business structures
VC funded startup <-> Privately owned <-> Publicly traded
- Different technical challenges
Mainframe forklift <-> Startup “greenfield”
Monolith <-> Microservices
- Different Roles
Sales/Marketing <-> Engineering department head
Single team embed <-> Head of Product
- 15+ years in Product Management



A young boy with brown hair is looking out a window covered in rain. He is resting his chin on his hands, looking out with a thoughtful expression. The background shows a blurred view of a hillside with greenery and a road. The text "ARE WE THERE YET?" is overlaid on the image.

“ARE WE THERE YET?”



GOOD GODS BUT WHY: ENABLING DECISIONS

- Converting time into money
“If it costs 1 sprint to build it and I can sell 5 licenses...”
- Confronting flexibility vs predictability
“Can’t we just slip this one piece of scope in?”
- Predicting against uncertainty
“But Jennie, we need to present a compelling roadmap”
- Converting team performance into delivery
“Huh, I didn’t think about approaching it that way”

BUSINESS DECISIONS: COSTING



Selling My Time
Directly

- “Billable” Hours – cost of goods sold
- “Billable” Hours – opportunity cost
- “Cost plus” – what are materials in software?



Selling a Good My
Time Goes Into

- Licensing – how many more seats
- Freemium and Product Lead Growth – stepping up engagement
- Internal Services – making other people more efficient

BUSINESS DECISIONS: PRICING

Revenue

— Value

— Price

— Cost

Loss Leader

— Value

— Cost

— Price

Trouble

— Price

— Value

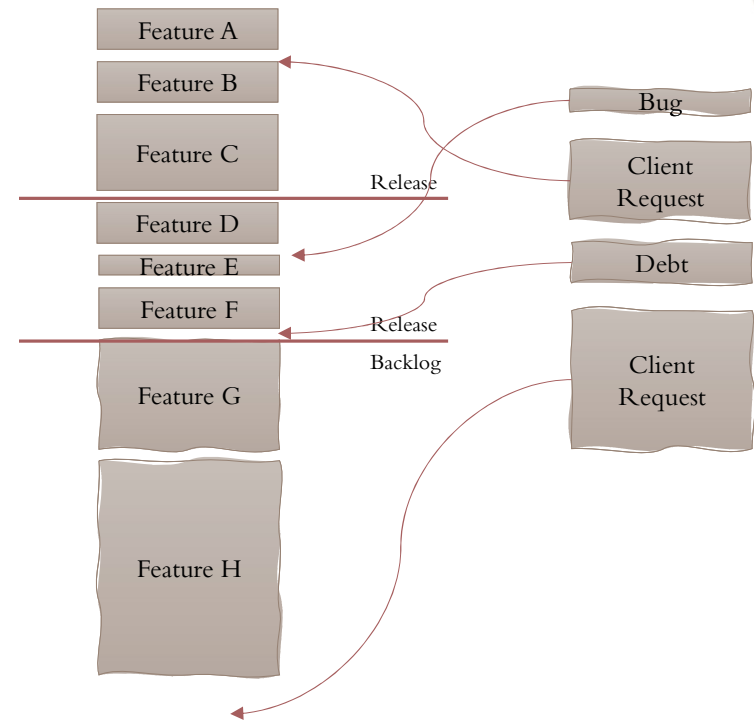
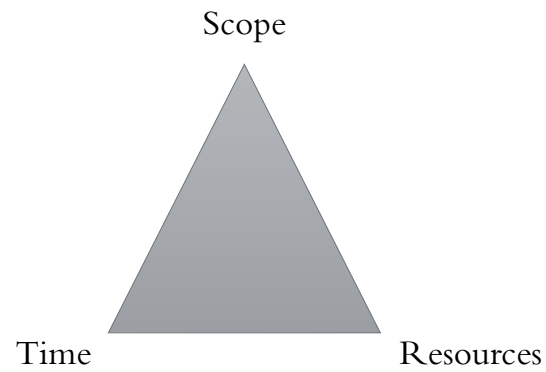
— Cost

PRODUCT DECISIONS

Debt Paydown

— Cost

— Value



TECHNICAL DECISIONS

- Where do we want to start? What kinds of things do we need to learn?
Estimates as a way into an approach discussion
- What happens if we tear into this wall? How do we recover when something goes wrong?
Spikes and when things go wrong
- How do we balance skills across our team?
Jon Expert vs Aaron Middle Tier vs Steven Beginner
- How do we divide up the work?
Bathroom job vs Kitchen job



A dark, high-contrast image of a person wearing a hooded garment, possibly a hoodie or a hat, with the text "PSYCHOLOGY BREAK" overlaid in the center. The image is framed by a white border at the top and bottom, and the background is black. The person's face is obscured by deep shadows, and the hood is a textured, dark material. The text is in a white, serif, all-caps font.

PSYCHOLOGY BREAK

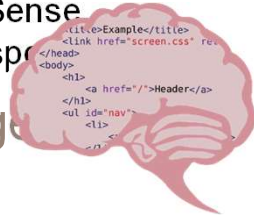
CYNEFIN

- Developed in 1999 and first published in the Hard Business Review in 2007 by David Snowden and Mary Boone
- Welsh for place or habitat

CYNEFIN

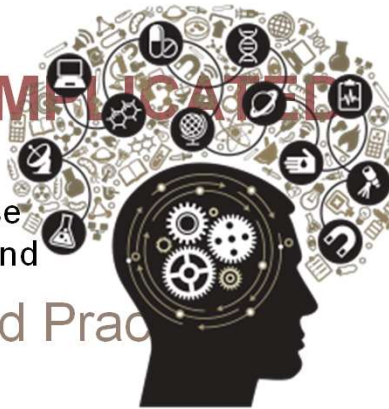
COMPLEX

Probe
Sense
Respond
Emergent



COMPLICATED

Sense
Analyse
Respond
Good Practice



Disorder

CHAOTIC

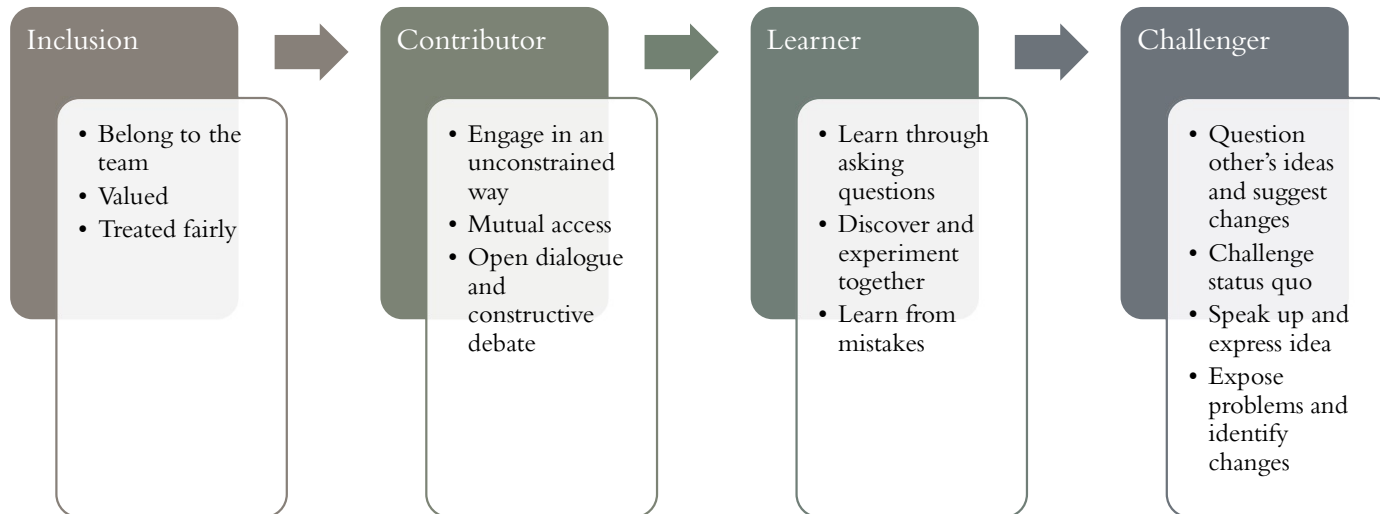
Act
Sense
Respond
Novel

Obvious

Sense
Categorize
Respond
Best Practice



PSYCHOLOGICAL SAFETY



HIGH SAFETY



High trust



Learn together



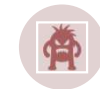
Challenge each other



Innovative



No risk taking



Fear driven



Blame culture

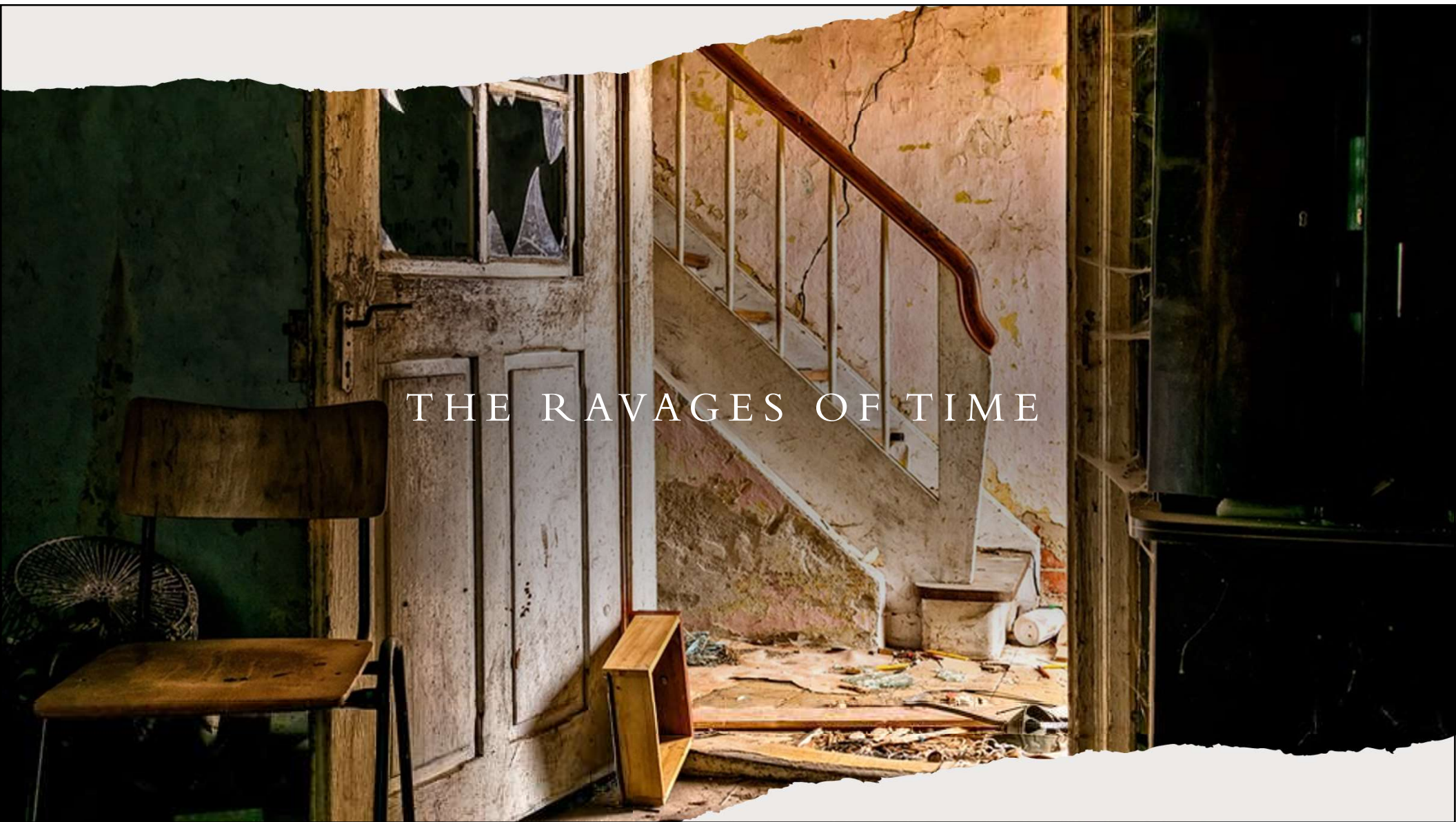


No problem solving

HOW TO CREATE PSYCHOLOGICAL SAFETY

- Make it an explicit priority
- Facilitate everyone speaking up
- Establish norms for how failure is handled
- Create space for new ideas
- Embrace productive conflict



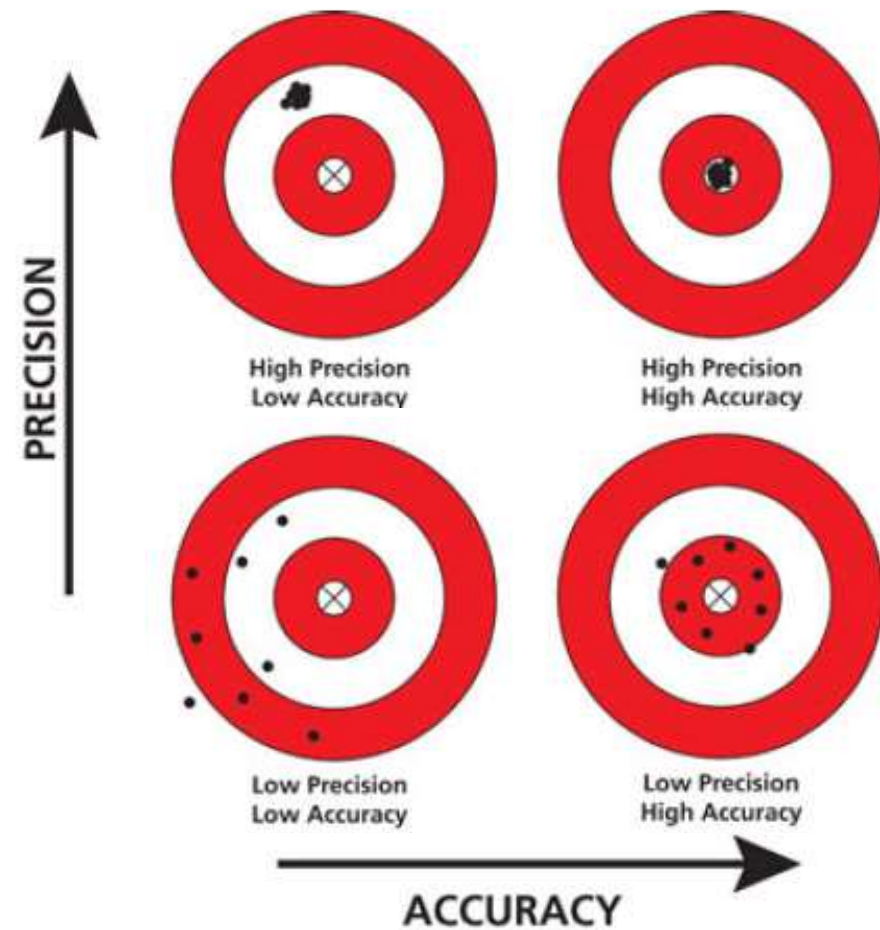


THE RAVAGES OF TIME

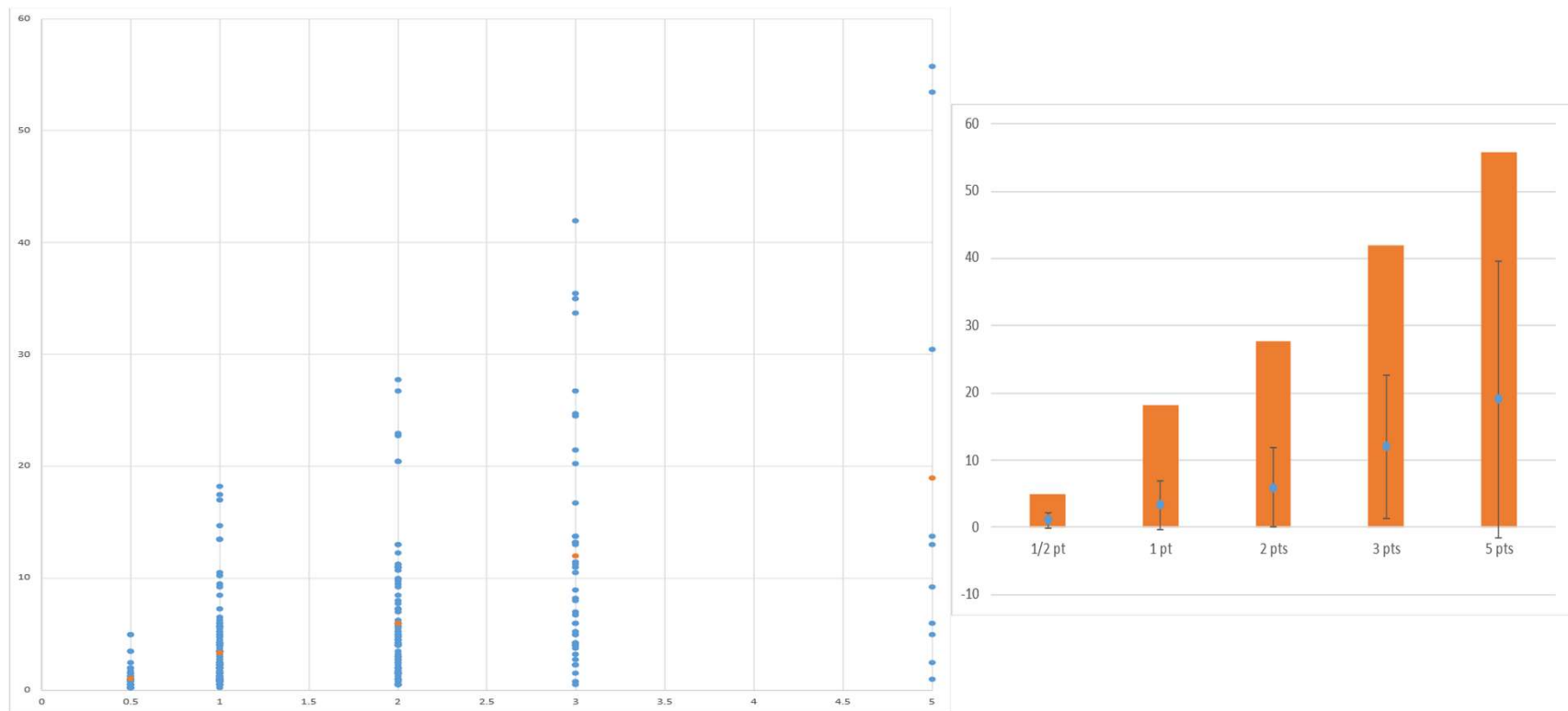
WHAT QUESTION ARE WE TRYING TO ANSWER?



ACCURACY VS PRECISION



THE DEVIL IS IN THE POINTS



A red pushpin is pinned to a map, with a blue pushpin and a yellow pushpin visible in the background. The map shows a road and some geographical features.

ROADMAPS AND DELIVERY PLANS

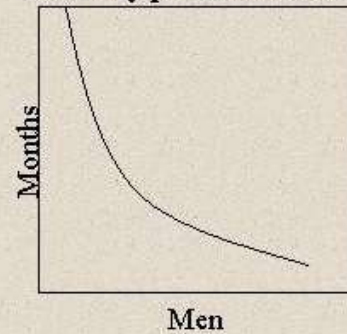
- A roadmap is a statement of mission and landscape
- A delivery plan is an expectation of when we will hit certain milestones
- If you give someone a time-based estimate, they will turn it into a gaunt chart
- If you don't give someone a time-based estimate, they will make up a timeframe and turn it into a gaunt chart

THE MYTHICAL MAN-MONTH

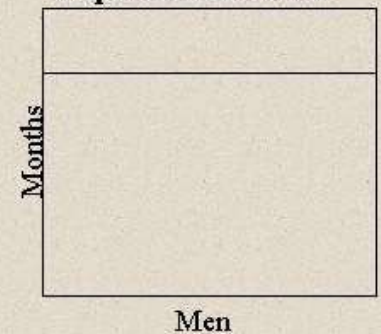
- Why estimation goes poorly
 - Assume all will go well (“programmers are optimists”)
 - Assumes that men and months are interchangeable
 - Lack courteous stubbornness
 - Progress is poorly monitored
 - The response to delay is to add people
- Brook’s experience with actual task breakdown
 - 1/3 planning
 - 1/6 coding
 - 1/4 component test and early system test
 - 1/4 system test, all components in hand
- Brook’s law: Adding manpower to a late software project makes it later

• Different projects types:

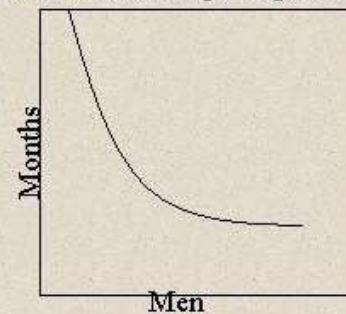
Perfectly partitionable task



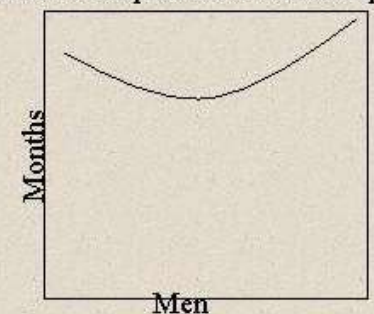
Unpartitionable task



Partitionable task requiring communication

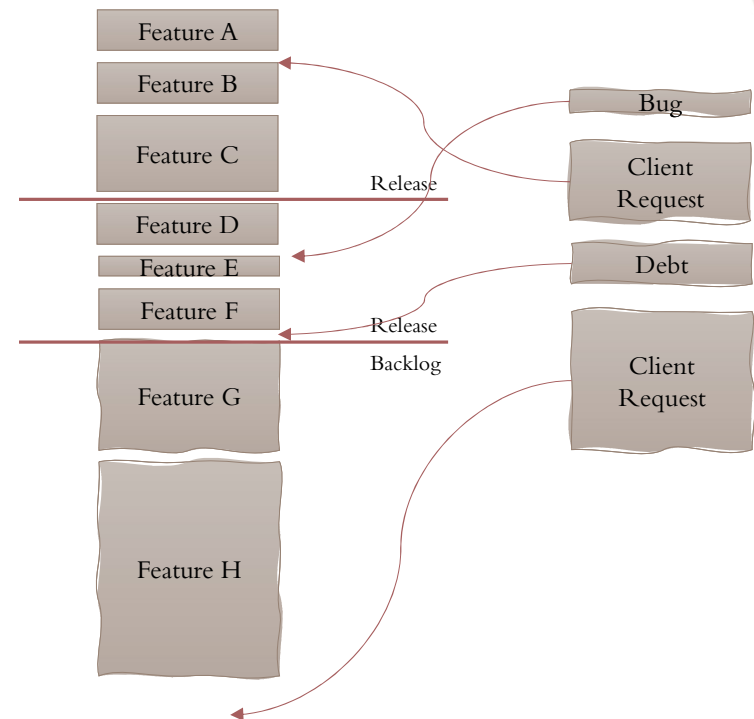


Task with complex interrelationships



PLAYING THE GAME

- The further away something is, the more uncertainty we *should* have about it
 - Big to small
 - High uncertainty to low uncertainty
 - Doubling the doubled, padding the pad
- Know how the estimate is going to be used and who is going to see it
 - Development for hire vs software for direct sales vs internal services vs service support
 - The difference between an estimate and a cost



A WORD ON DEBT

- If you don't include these things in the up-front estimation time, you will be buying debt you will be paying with interest later:

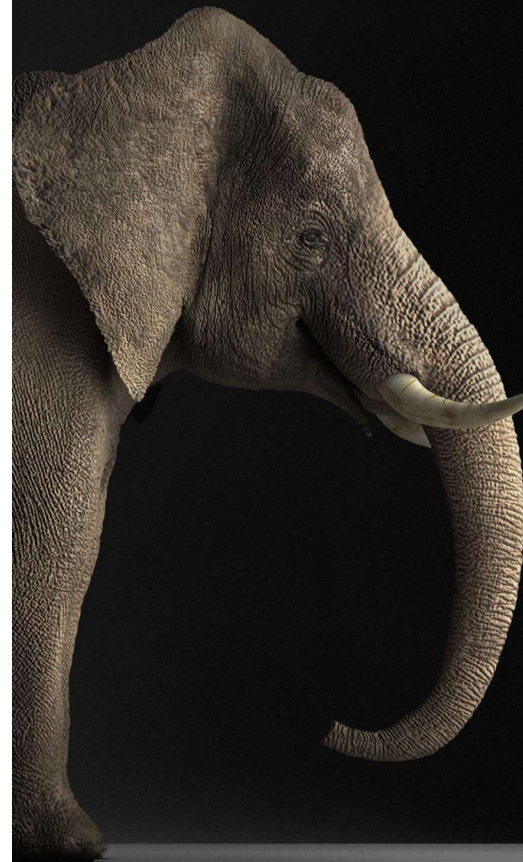
User research and product market fit

Discovery and spikes

Testing

Documenting and releasing

Product marketing and training

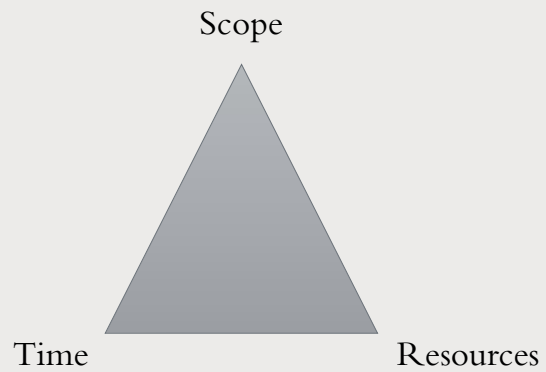


TERRIBLE IDEAS

- Comparing across teams
- Individual performance measurement (just as bad as lines of code)
- Translating points to hours (just do hours, you aren't doing anything with points anyway)
- Using estimates to price (it's a costing mechanism)
- Detailed break downs too early (during ideation or discovery)
- Too high level too late (aka the JFDI task)

ONE MORE THING

- Sometimes set the timeframe and resources instead of the scope





QUESTIONS

Jennie.ocken.org

jennie@ocken.org

[@jennieocken](https://www.instagram.com/jennieocken)