How do you know that your product works? Lean Kanban Central Europe keynote Nov 2014



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Agile & Lean coach

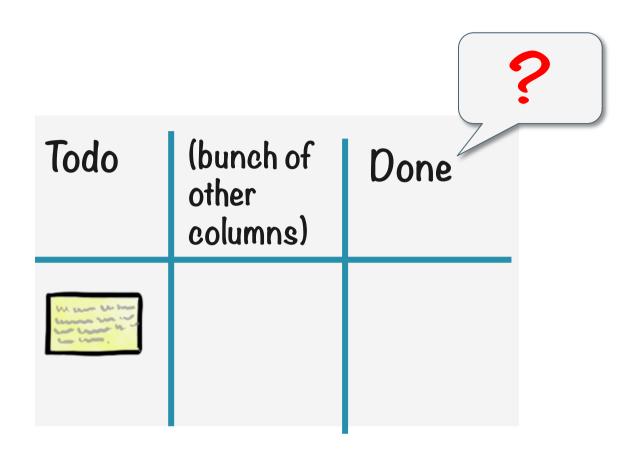


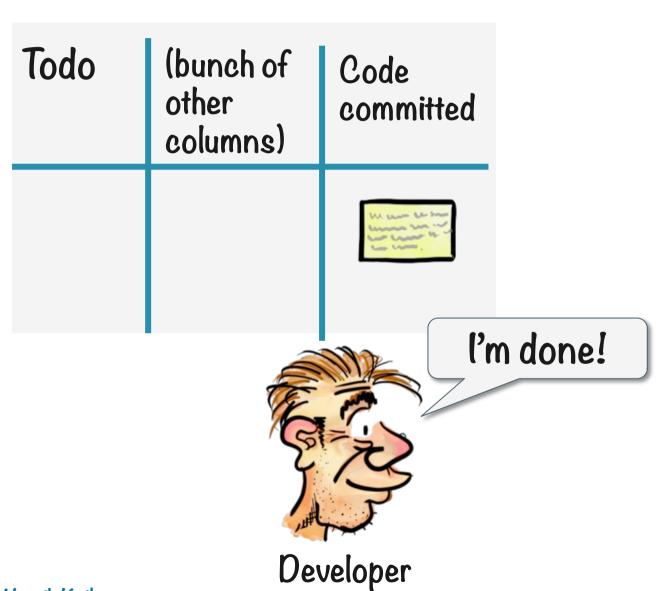


Author









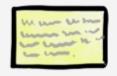
Where's my product?

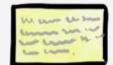


Where's my product?

Code committed

Tested



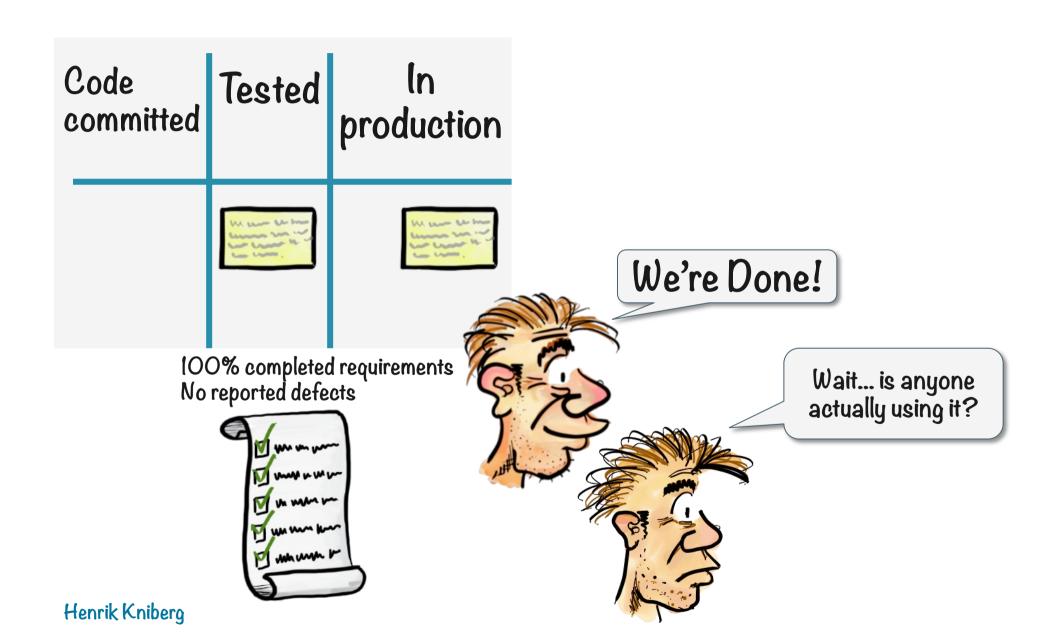


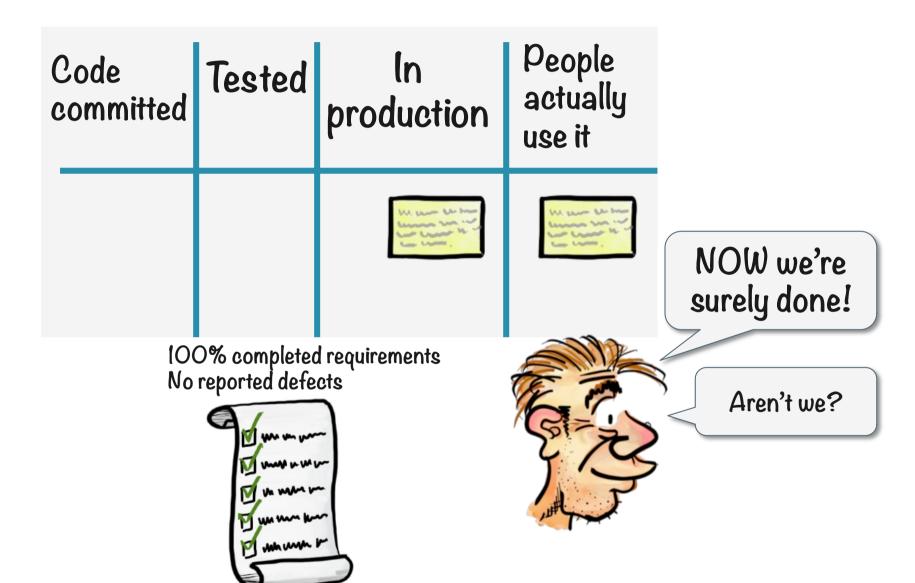


We're Done!



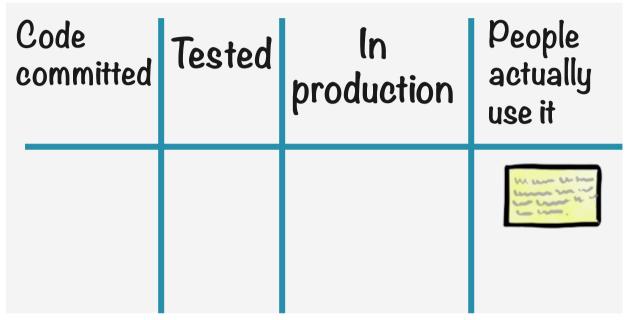
Developer





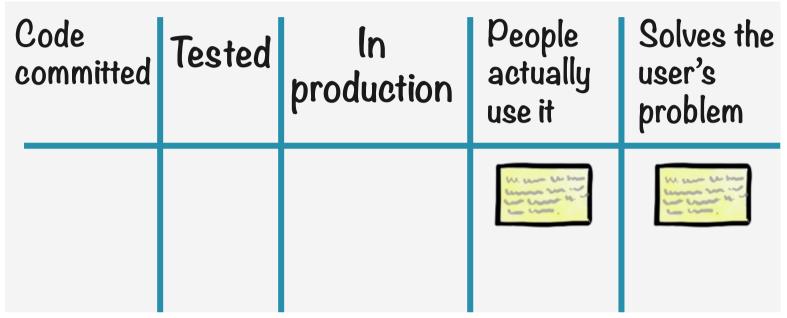
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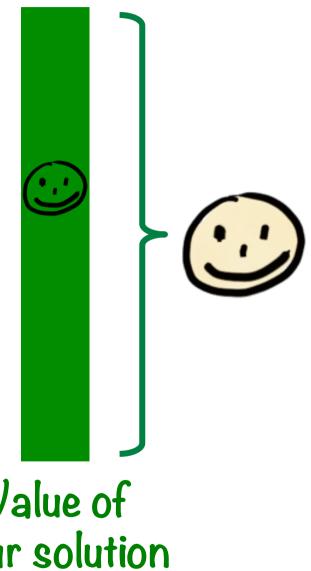
100% completed requirements No reported defects



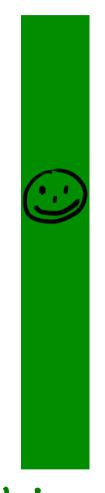


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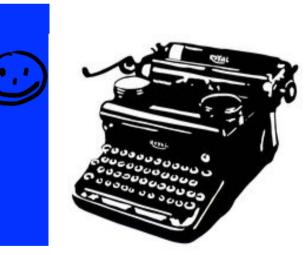


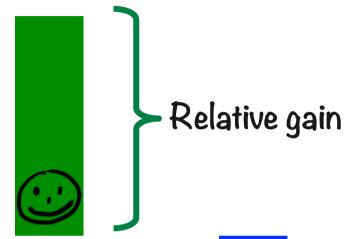


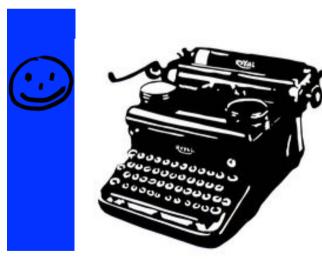
Value of your solution





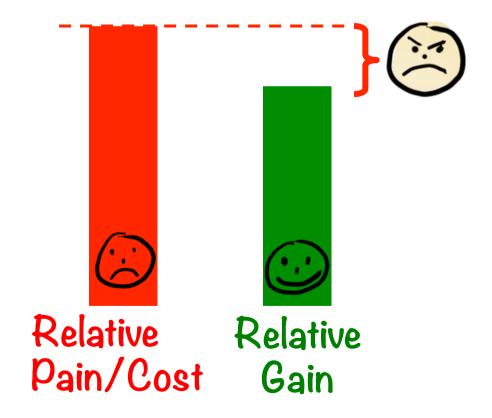




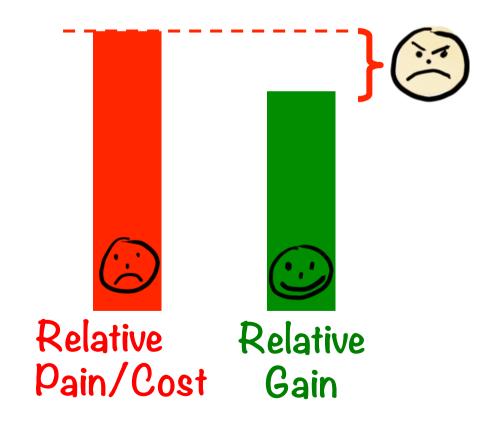


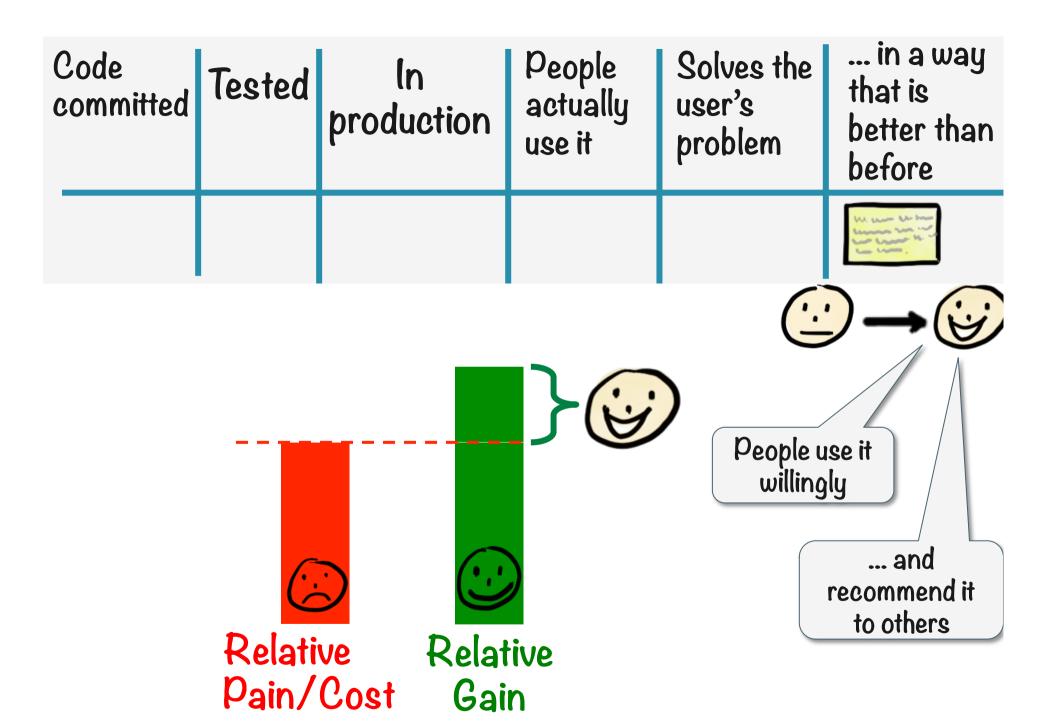
your solution solution

Value of Value of old



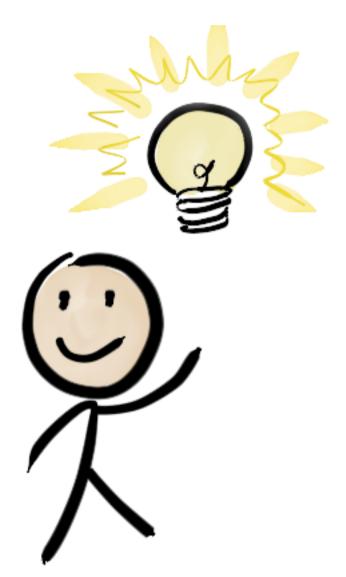
C	Pode ommitted	Tested	In production	People actually use it	Solves the user's problem	in a way that is better than before
					We work to be	



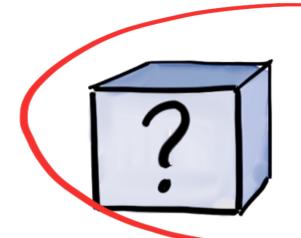


Escaping the Big Bang

All products start with a Great Idea!



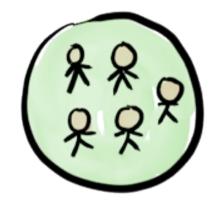
Risk



Business risk



Technical risk



Social risk



Cost & schedule risk



Search Buzz. Search the Web.

907pm M.Connect. #









Gmail

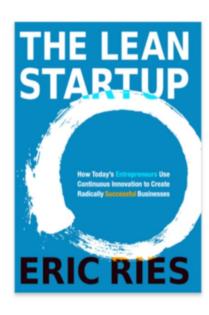
- Chat Search, add, or invite

Mr Tad Taco
Del status have

• Alan
• Ennly
am Roday
• Robert
Sattors* Add.Control

Assume you are building the WRONG thing!





- List your hypotheses
- Build an MVP to validate/invalidate it
 - "Minimum Viable Product" the fastest & cheapest thing you can build to field-test your hypothesis



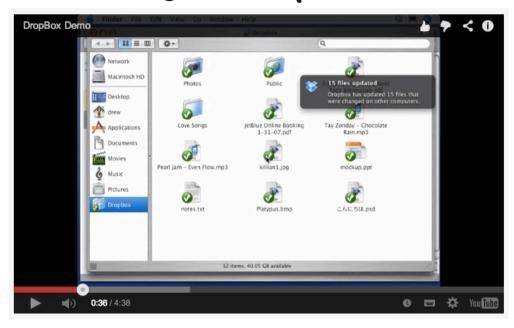
Hypotheses

1. File sync is a problem for people

2. Our product will solve the problem

3. People will want to use our product

Original dropbox demo





Drew Houston beta@getdropbox.com

Dropbox MVP





Pirate metrics



AARRR!

Do people come?

Aquisition

Activation

Do they use the product?

Retention

Do they come back?

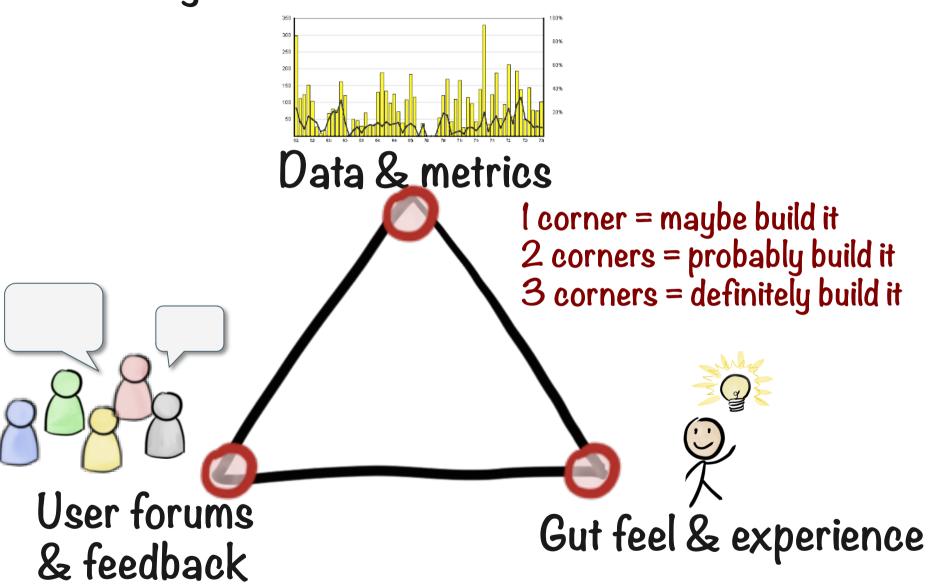
Referral

Do they recommend it to others?

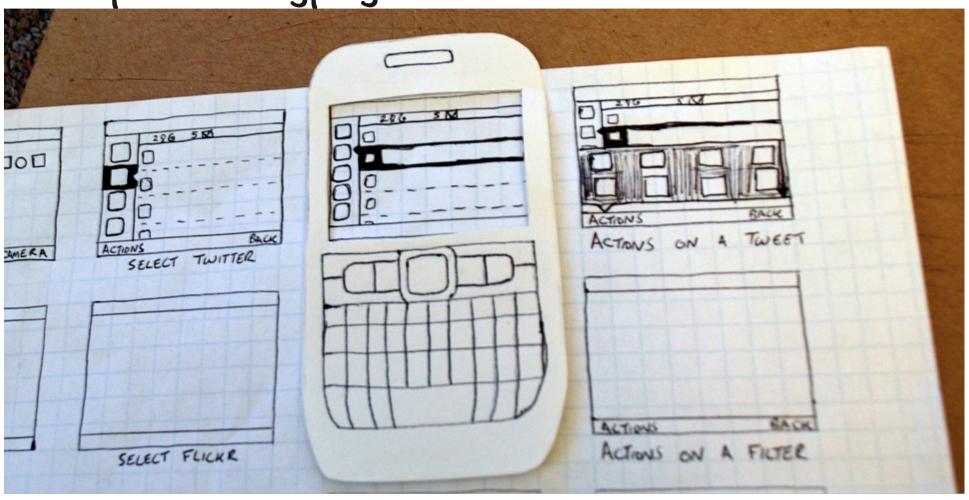
Revenue

Do they pay?

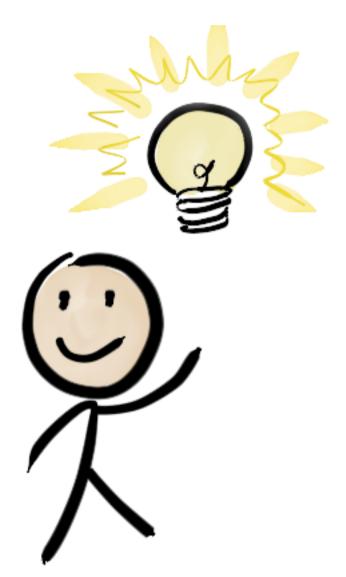
Don't rely ONLY on hard data

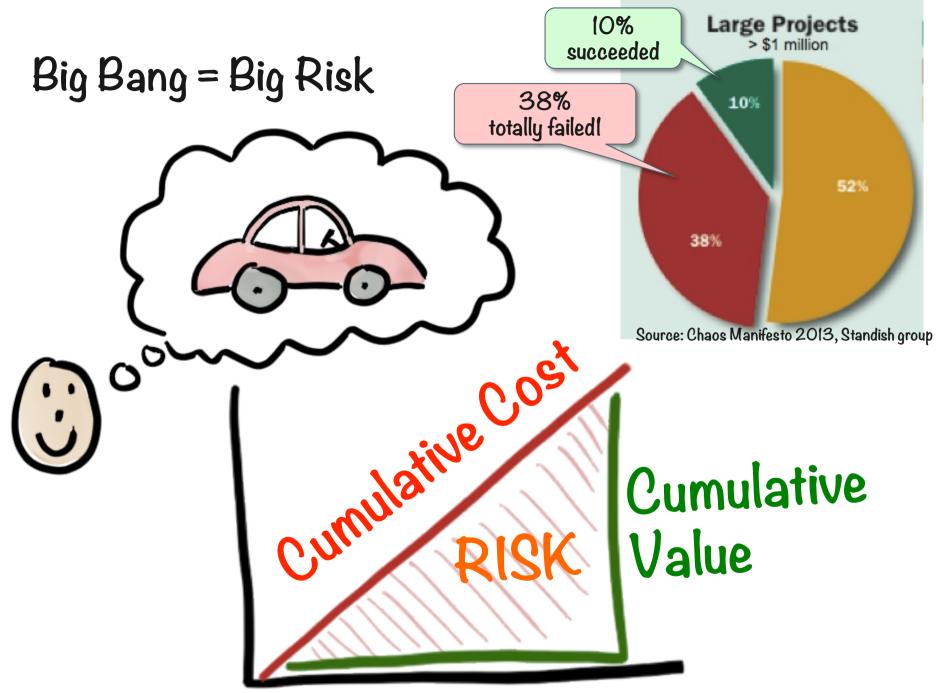


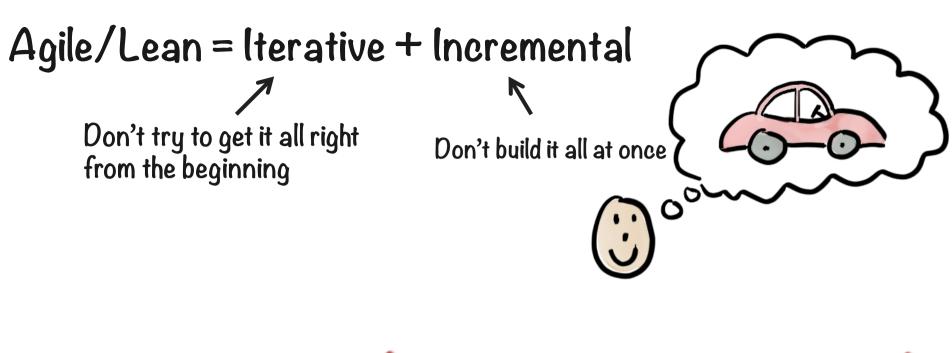
Paper Prototyping = Lo-tech MVP

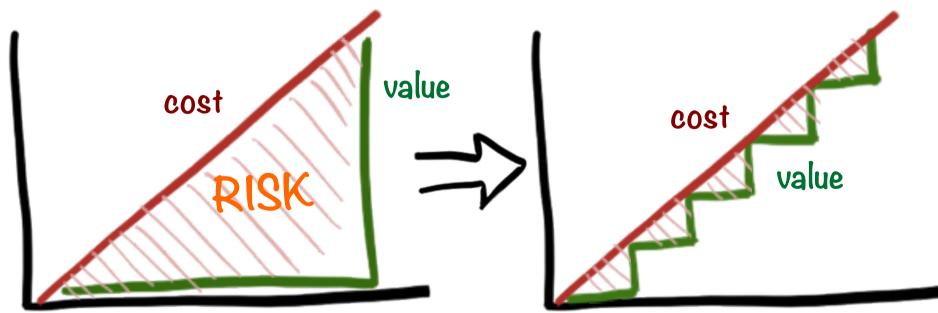


All products start with a Great Idea!

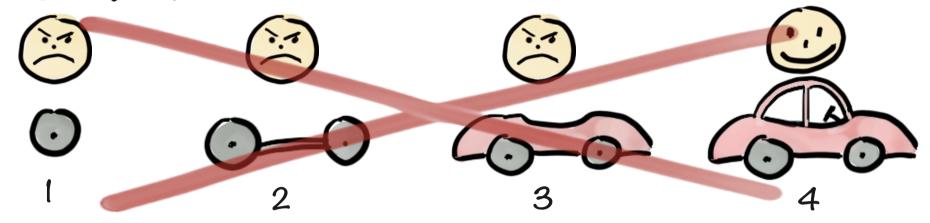




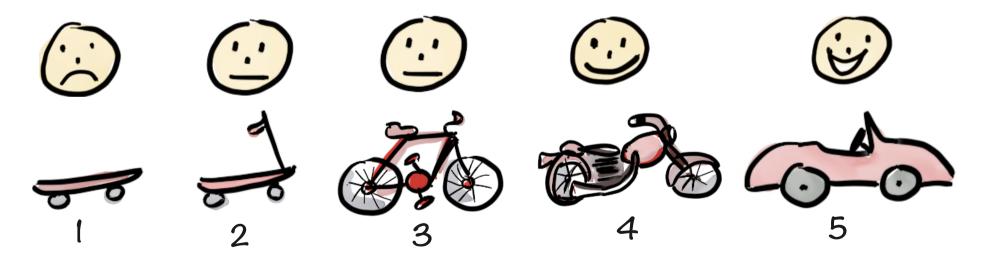




Not like this....

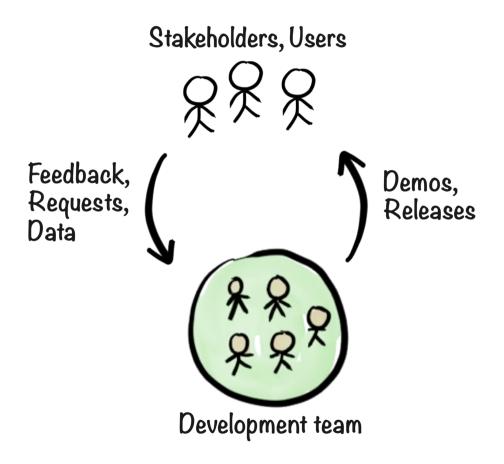


Like this!



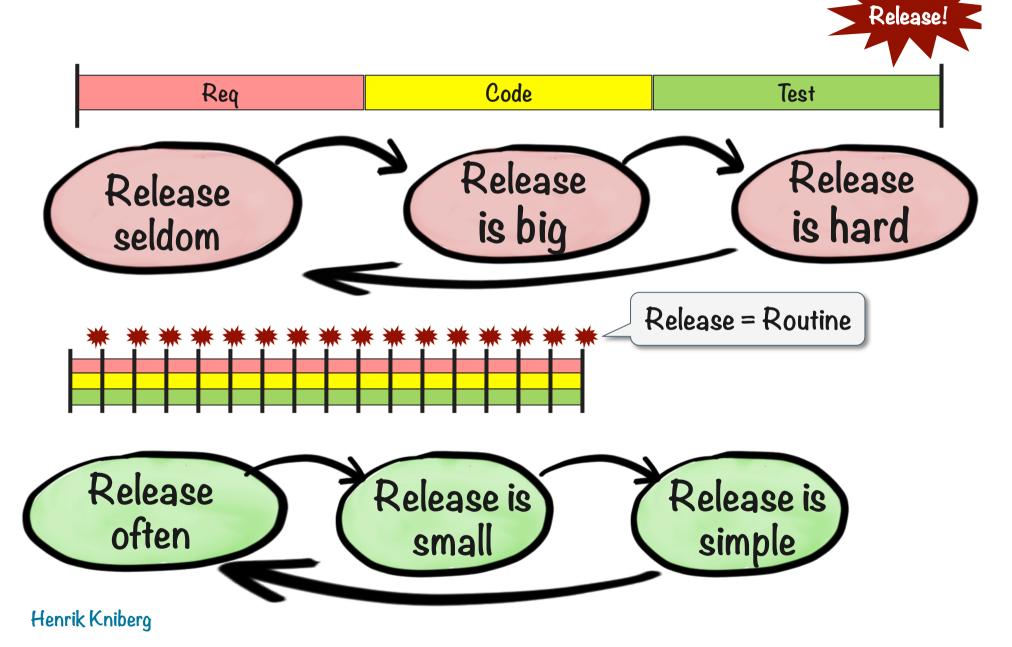
Fastest learner wins!

Delivery frequency = Speed of learning



Release must be REALLY easy!

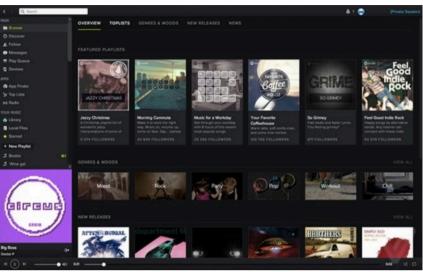




Planning gets easier with frequent releases

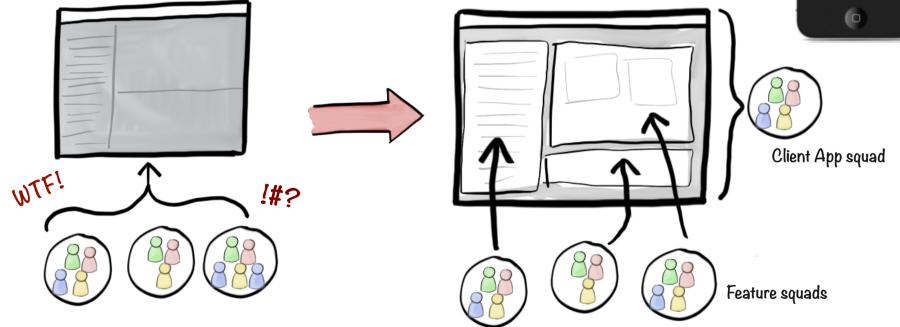


Decoupling to enable frequent releases





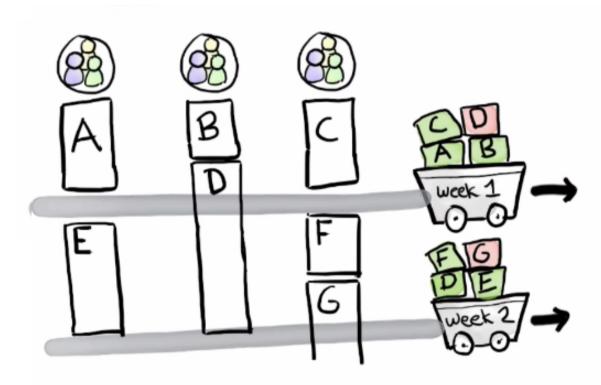


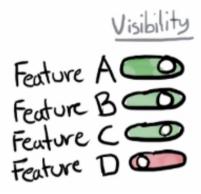


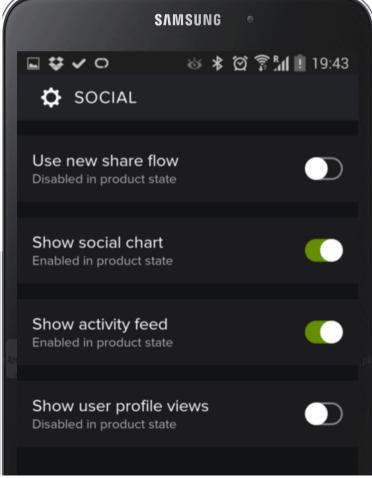
Continuous Delivery = Deployment is so easy that even an Agile Coach can do it!

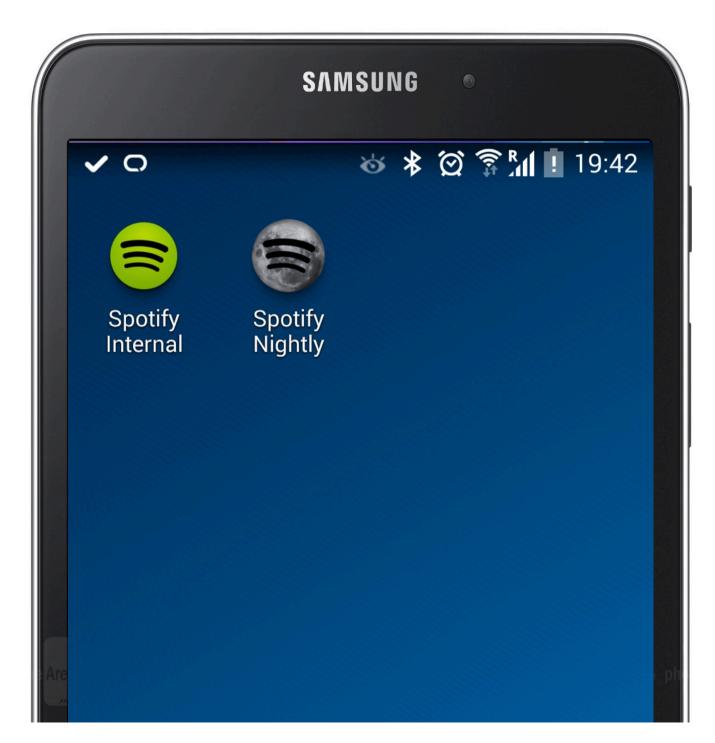


Release trains & Feature toggles

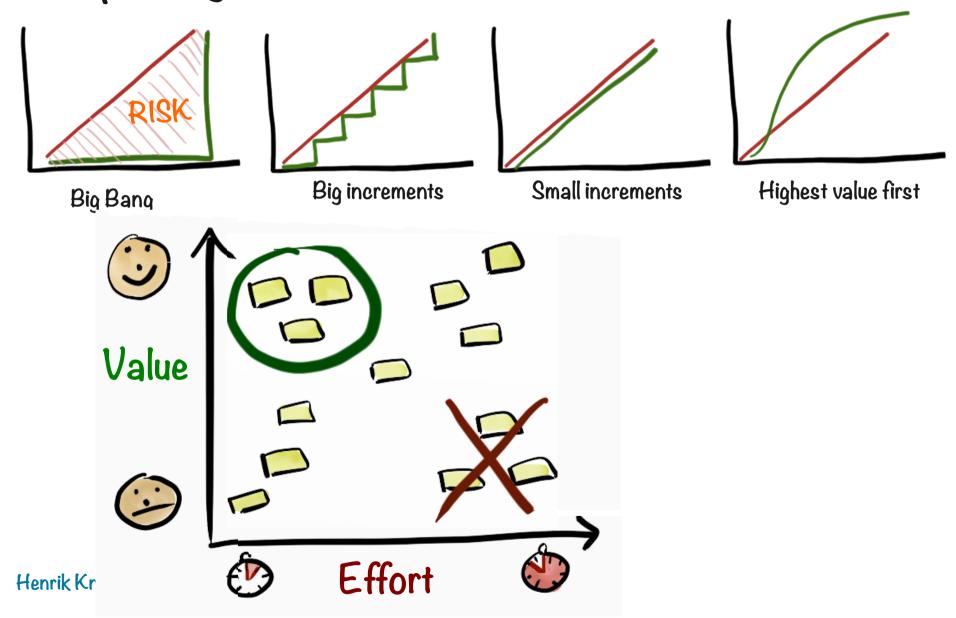


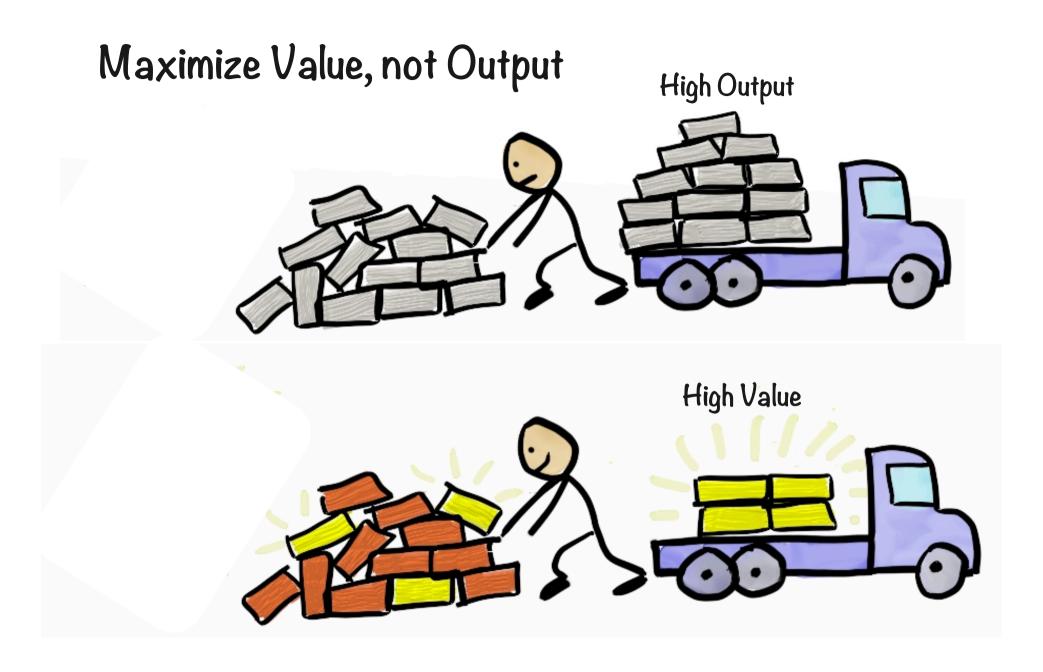






Improving the Value Curve





Value

What is value?



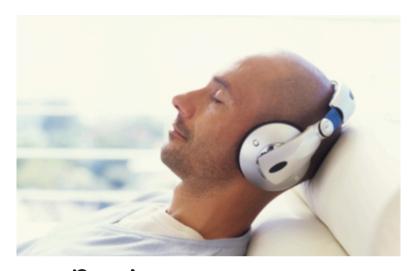
How are you improving people's lives?



People can easily find the info they need



Patrolling police can do their job more effectively



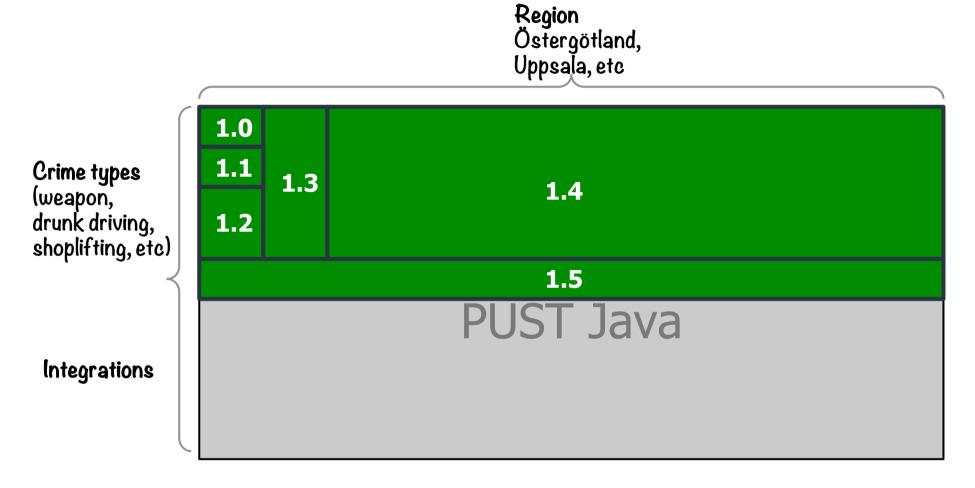
People enjoy more music



People have fun



Slice the elephant!





How are you improving people's lives?



People can easily find the info they need



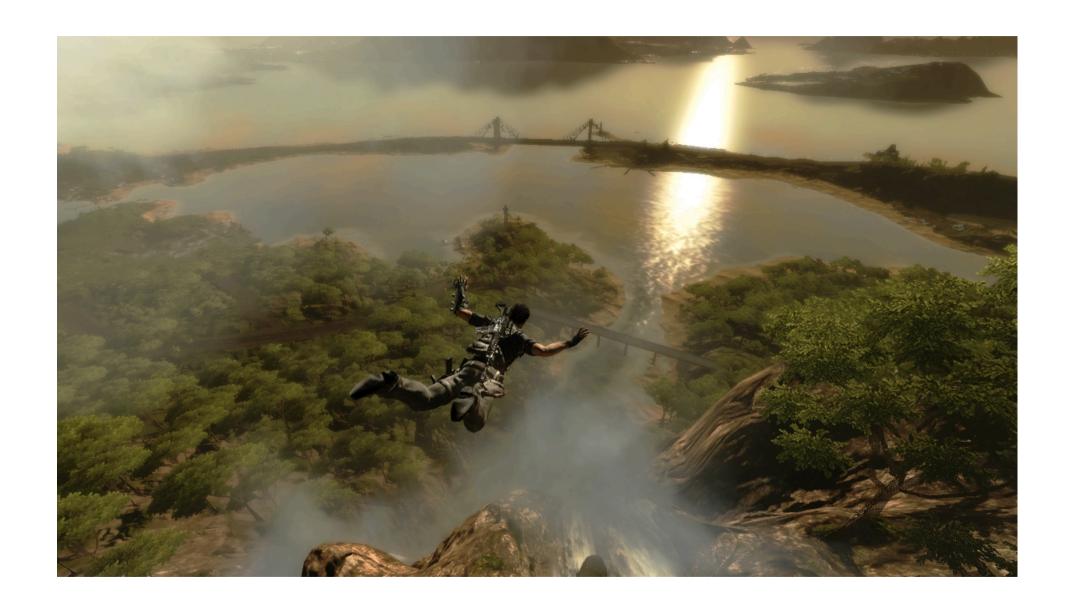
Patrolling police can do their job more effectively



People enjoy more music



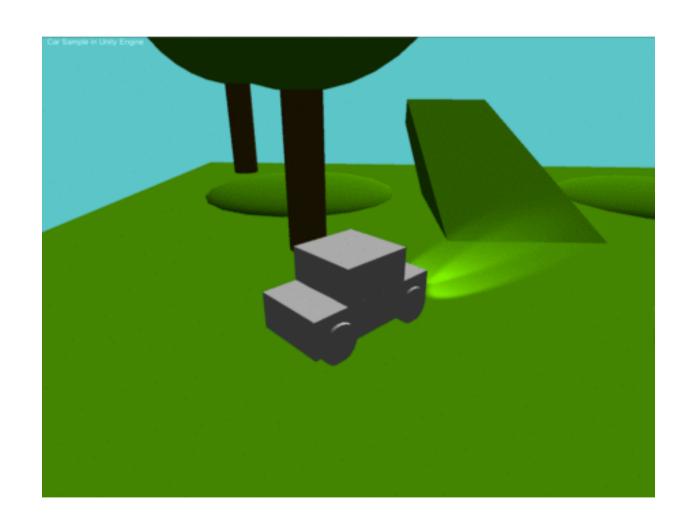
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Done level 1: "sufficient for decision"



Done level 2: "sufficient for playtesting"



Done level 3: "sufficient for alpha/beta release"



Done level 4: "sufficient for final release"



Henrik Kniberg

Finding the fun – step by step

	Feature 1	Feature 2	Feature 3	Feature 4	Feature 5	Feature 6	Feature 7	Feature 8
Sufficient for decision			1				3	6
Sufficient for playtest		2	3		3	5		
Sufficient for alpha/beta		4			6			
Sufficient for release			7					



We make digital toys for kids.

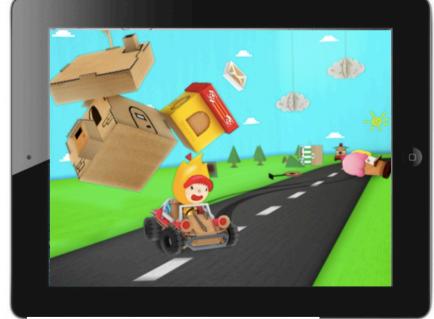
TOCA BOCA

Find out what's fun - BEFORE building the product!









★★★★★ (90)

Rating: 4+

Made For Ages 6-8

How are you improving people's lives?



People can easily find the info they need



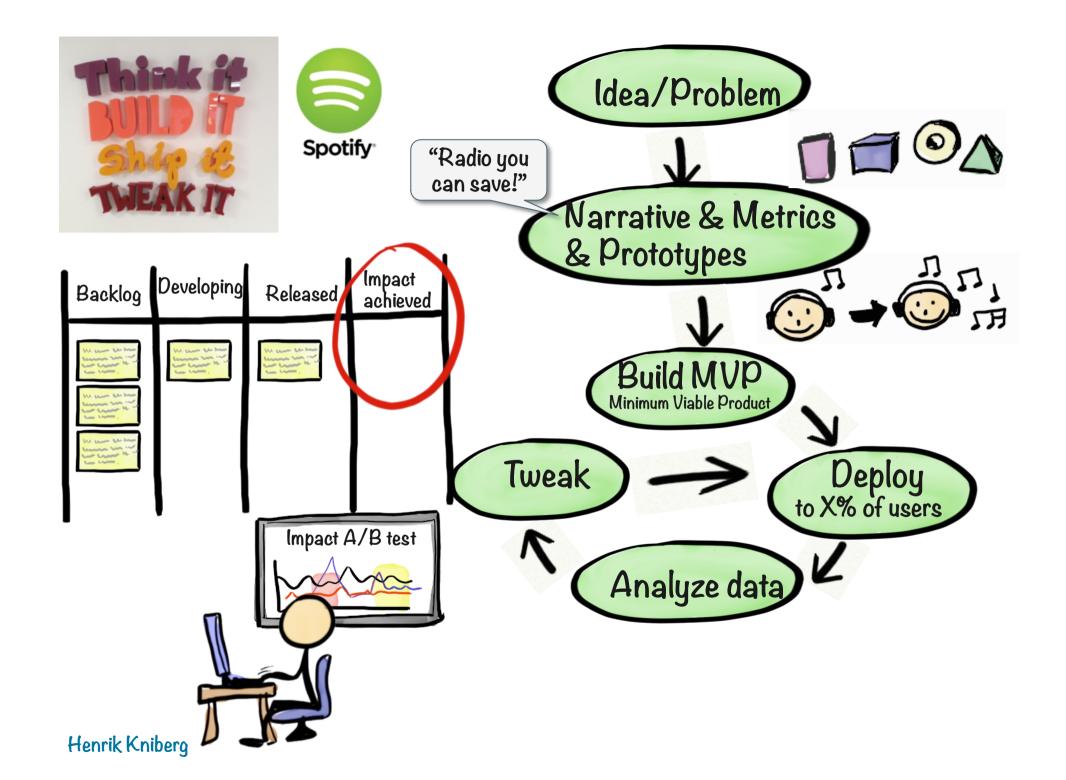
Patrolling police can do their job more effectively



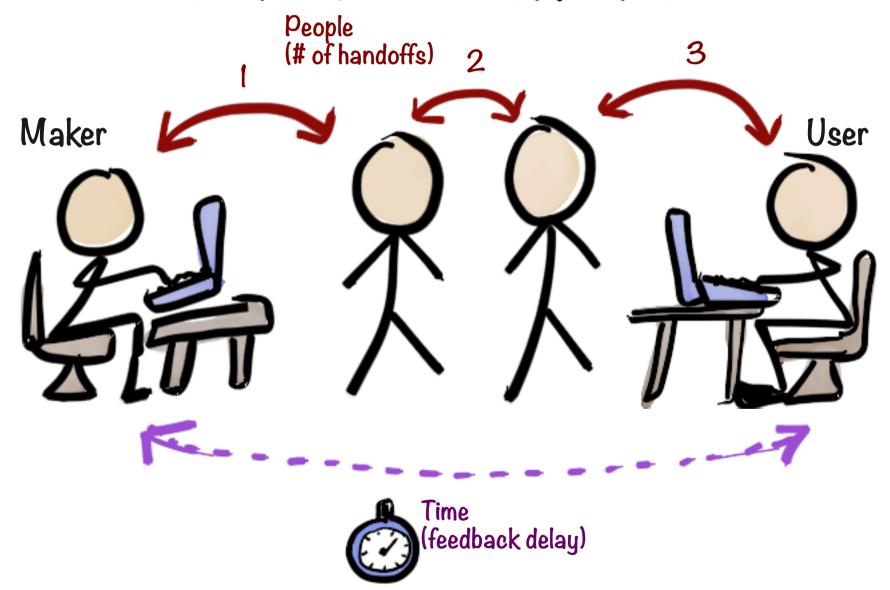
People enjoy more music



People have fun



Minimize distance between Maker and User



Wrapup

Gently grasp the chopstick between your thumb, index, and middle fingers.

Only move the top chopstick.

The thumb touches the side of the index fingern

About 1 cm protrudes.

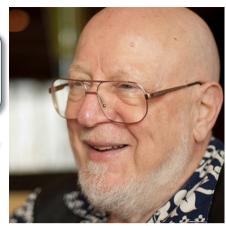
There are no hard problems.

Just hard solutions.

Bring the tips together.

Touches the side of the ring fingernail.

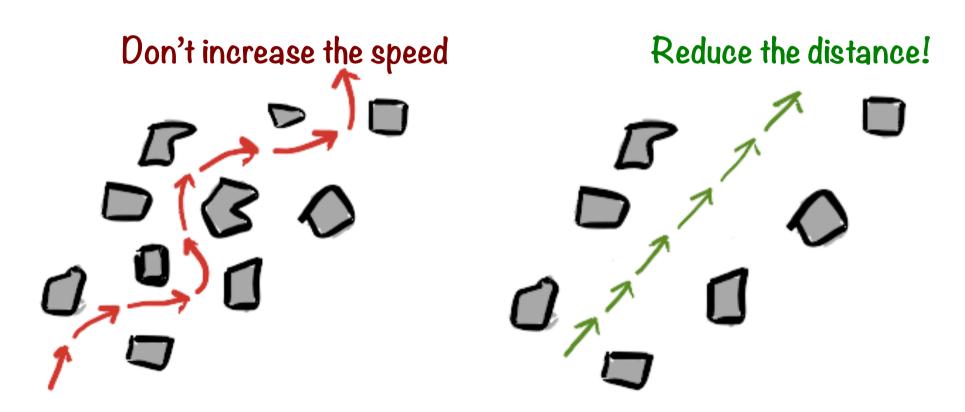
Brace in the "V-area" between the thumb and index finger.



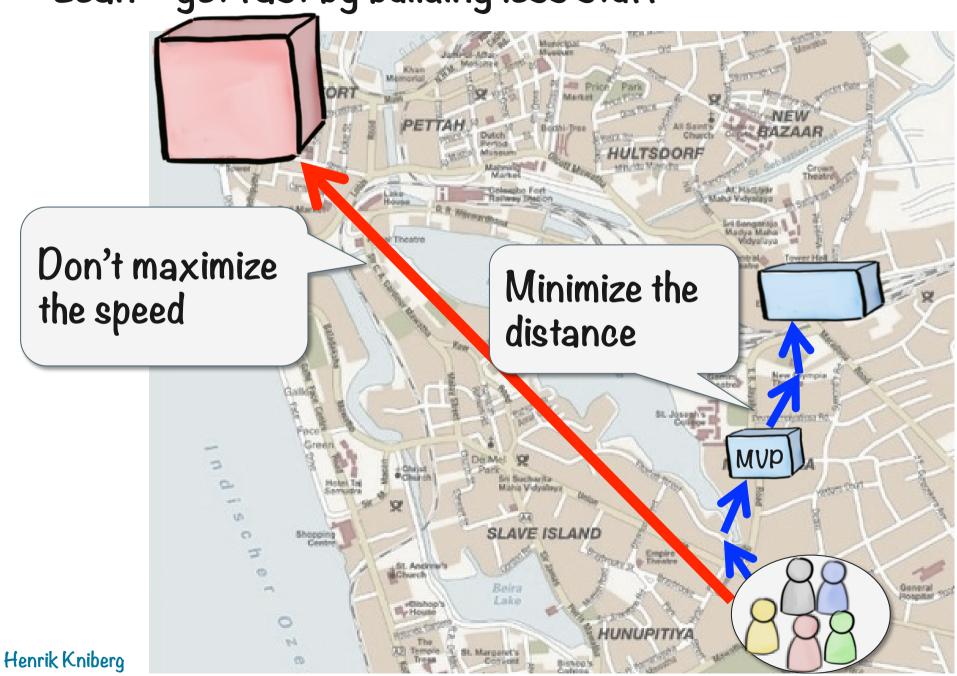
Jerry Weinberg



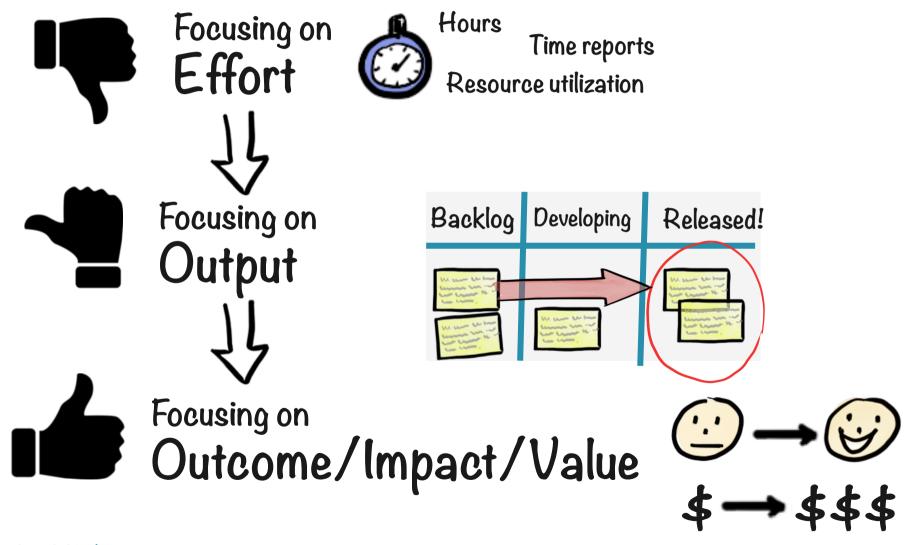
Lean = get fast by reducing waste



Lean = get fast by building less stuff



What you measure is what you get



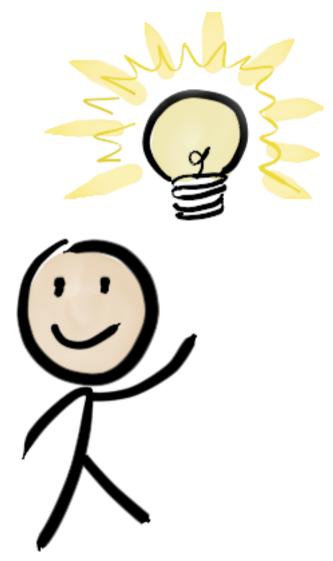
Manifesto for Agile Product Development

We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

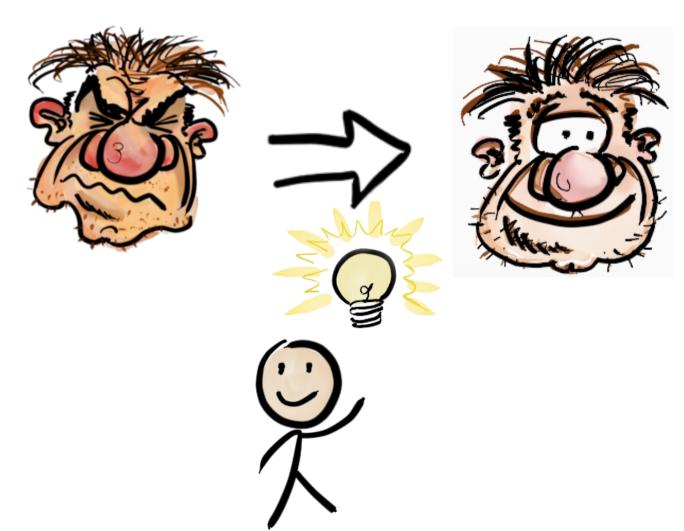
Individuals and interactions over processes and tools
Working Product over comprehensive documentation
User collaboration over contract negotiation
Responding to Feedback over following a plan

That is, while there is value in the items on the right, we value the items on the left more.

All products start with a Great Idea!



All products start with a Great Idea! an Unsolved Problem!



How do you know that your product works?

1. Understand the problem

Who are the stakeholders?

What need do they have, that we want to solve?

How will we know when we've solved it?

How will we know if we're moving in the right direction?

2. Iterate until you've solved it

Minimize the distance to MVP

Deliver, measure, adjust continuously

PDCA....
Build Measure Learn....
Inspect Adapt...
Probe Sense Respond...