Agile In a Nutshell



Jonathan Rasmusson





What we're going to cover



- How agile works
- What to expect
- What agile is
- Agile myths
- Review most popular methods
- Three steps towards agility

Too much to do, not enough time

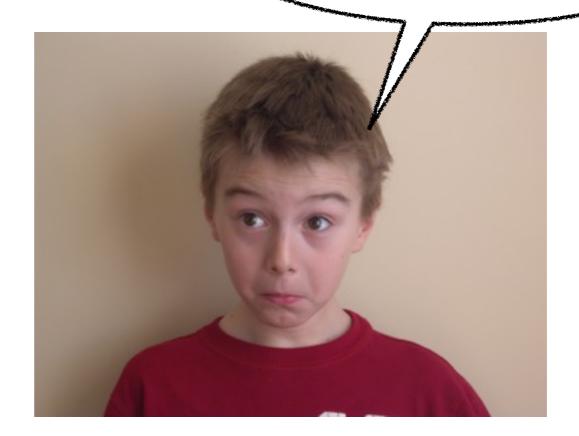


Credit: http://www.flickr.com/photos/geneoh/

You make a list



What do I need to do to get ready for this date?



This alone makes you feel good

You size things up



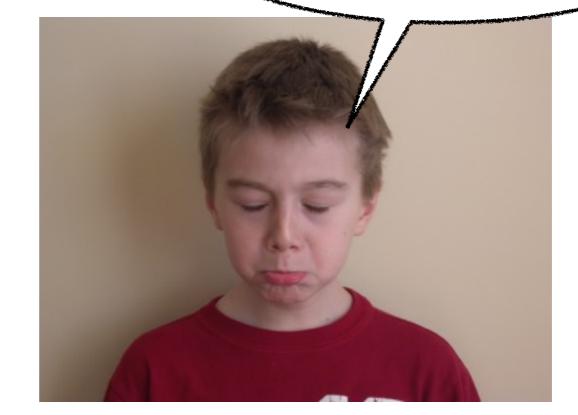
Should take more than a couple of hours!



You set some priorities



Dang! Too much to do.



Least important

Out of scope

Start executing



Ah! Didn't really need that shirt anyways.



This is what most people do ...

A little secret



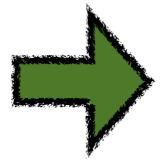
Only instead of ...

We use fancy names

ToDo lists

Master story lists

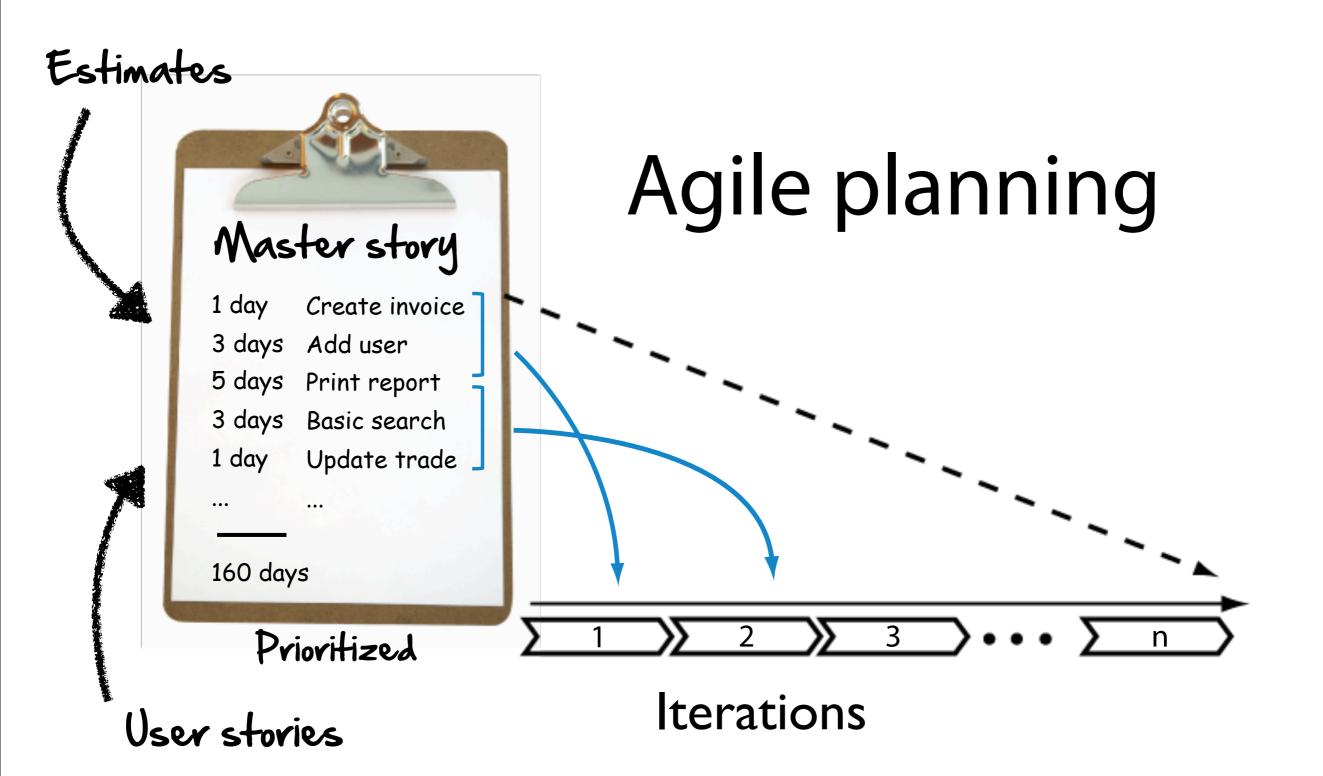
Tasks

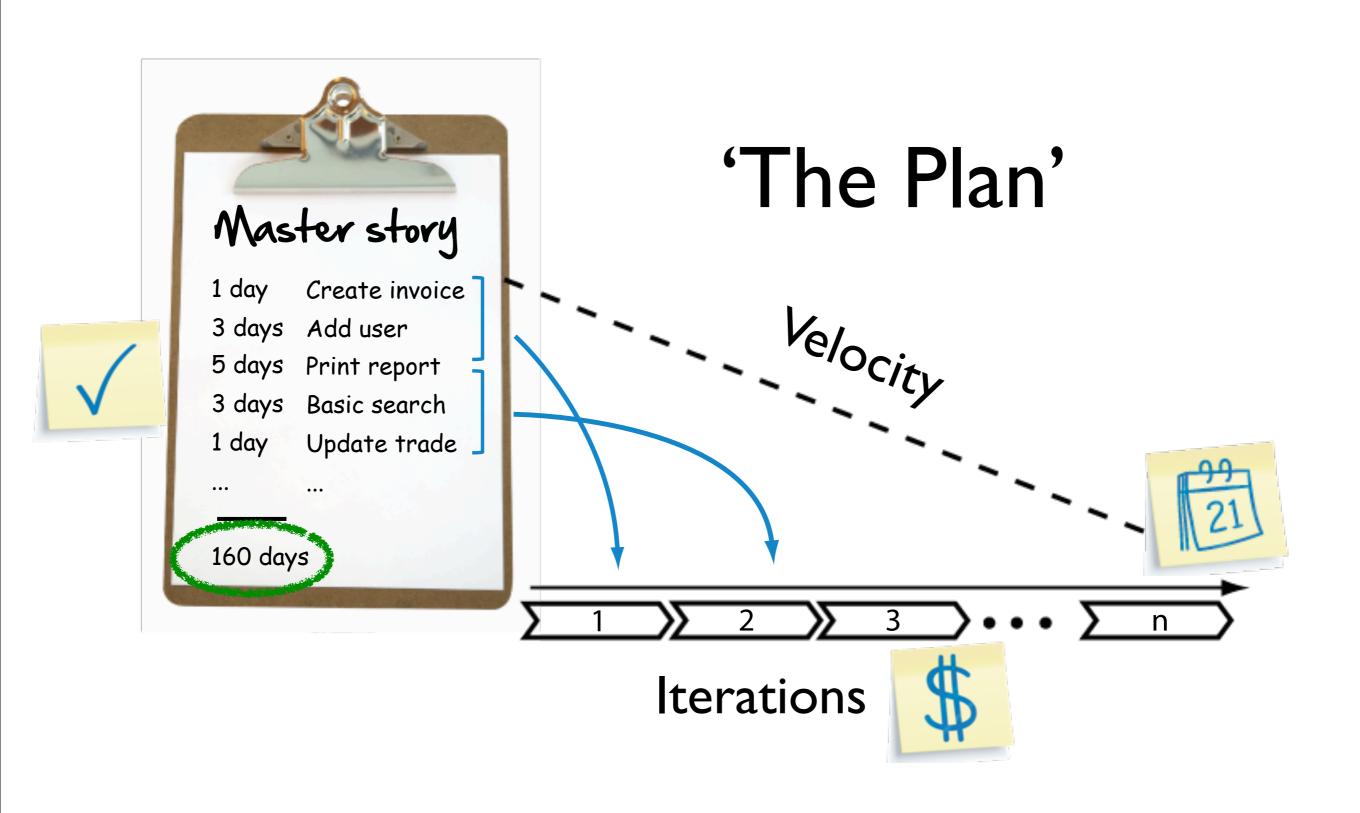


User stories

Guesses

Estimates





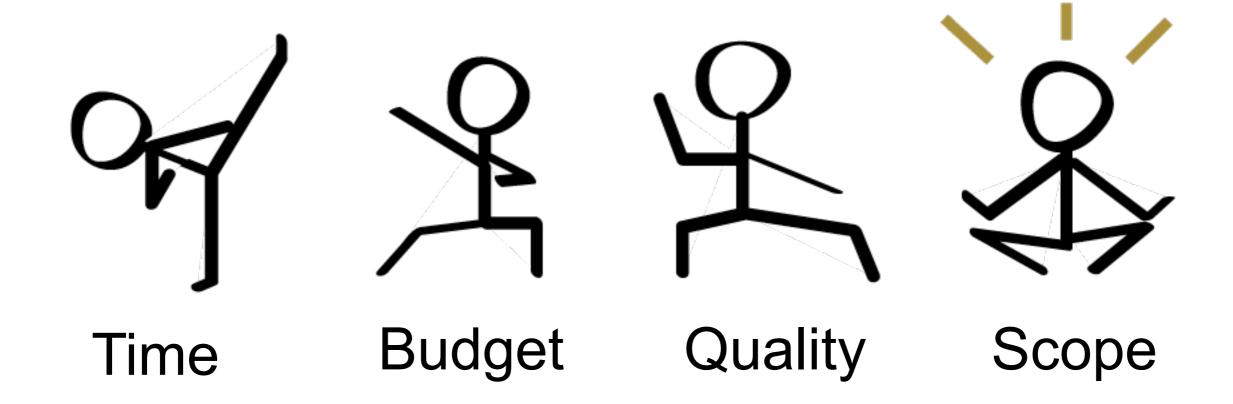
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How it works



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We flex on scope



We have the same definition of 'done'







A plan?



A design?



A report?

Working software

is the primary measure of success

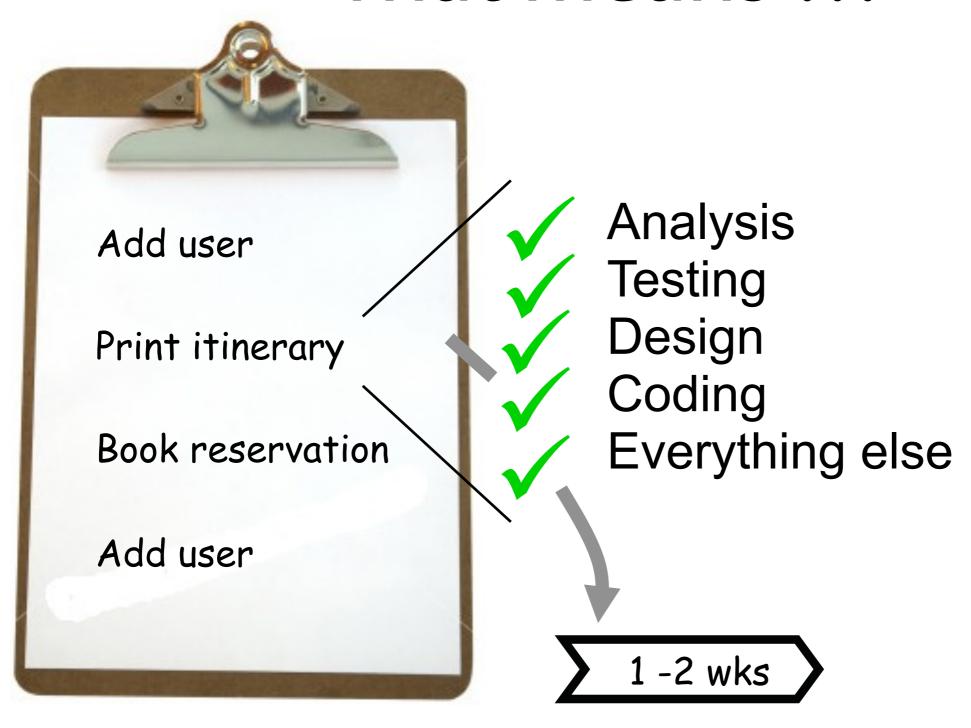


Project plans
Test plans
Requirements docs
Architectural diagrams
Analysis models
Security reports
Deployment plans

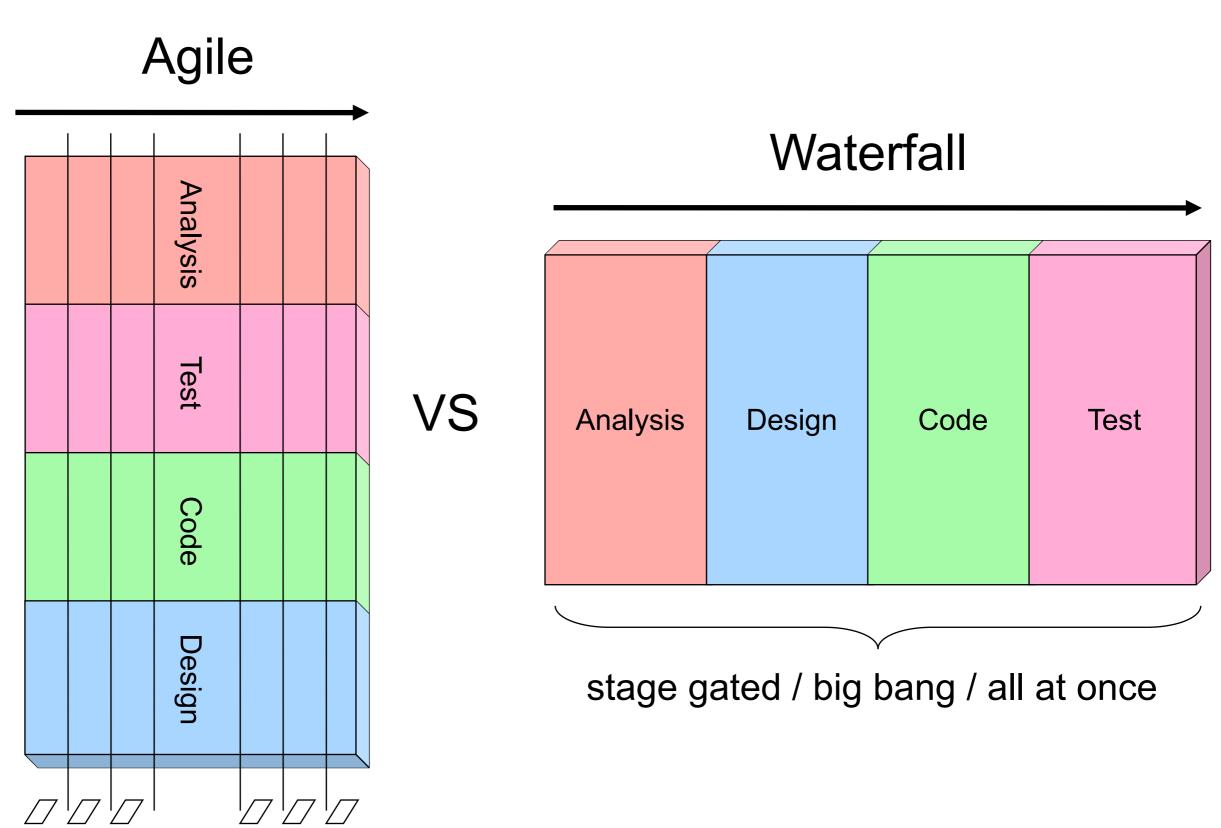
... are of no value to the customer.

Credit: http://www.flickr.com/photos/chris-hunt/3248785666/

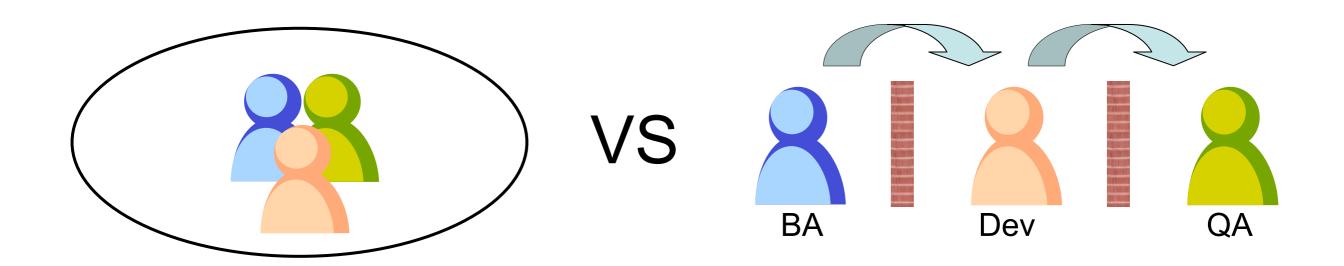
That means ...



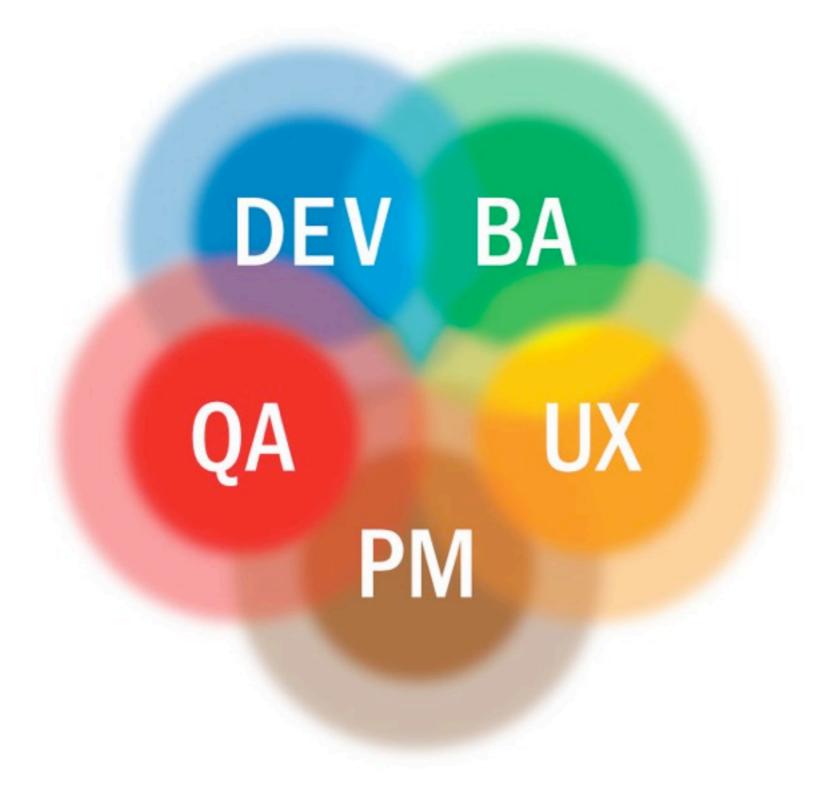
Analysis, design, testing, and coding are continuous activities



And we have to work as one team



More overlap between roles



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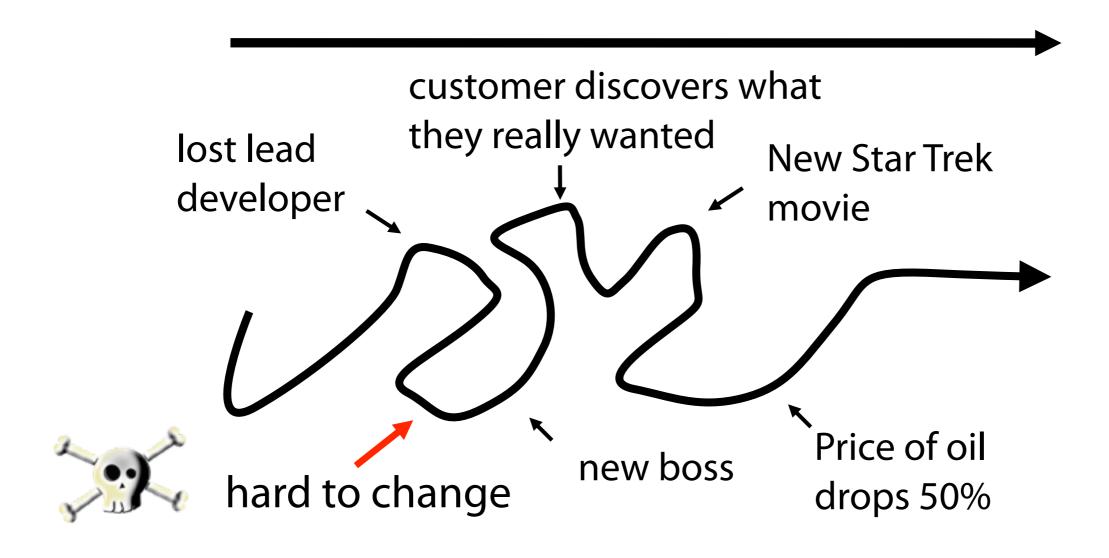




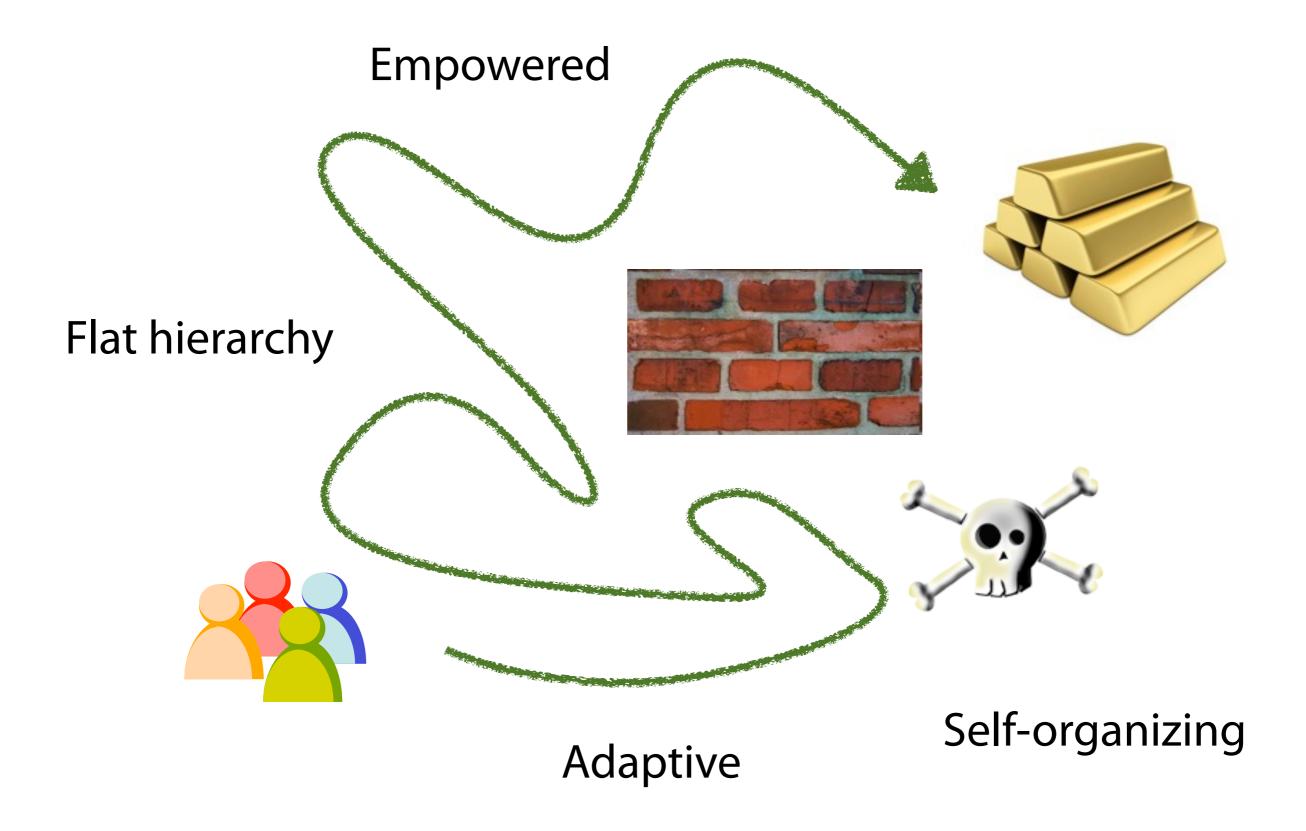
Adaptive

Adaptive

Adaptive



Self directed



Smart,
Talented,
Motivated People
Like working this way.

Agile is

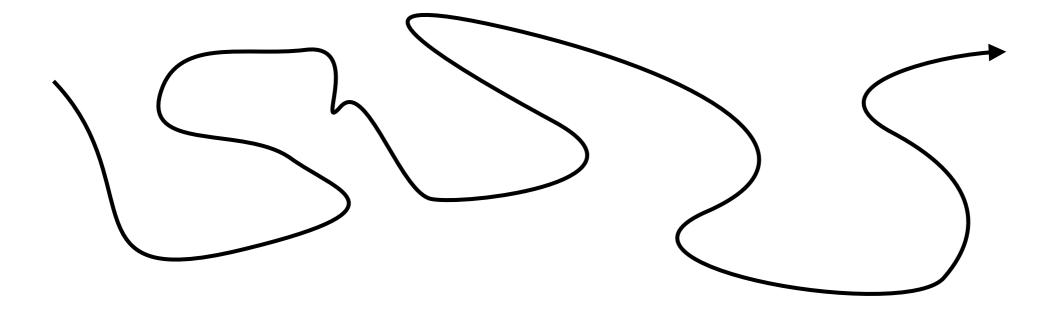
A common sense way of building software ...

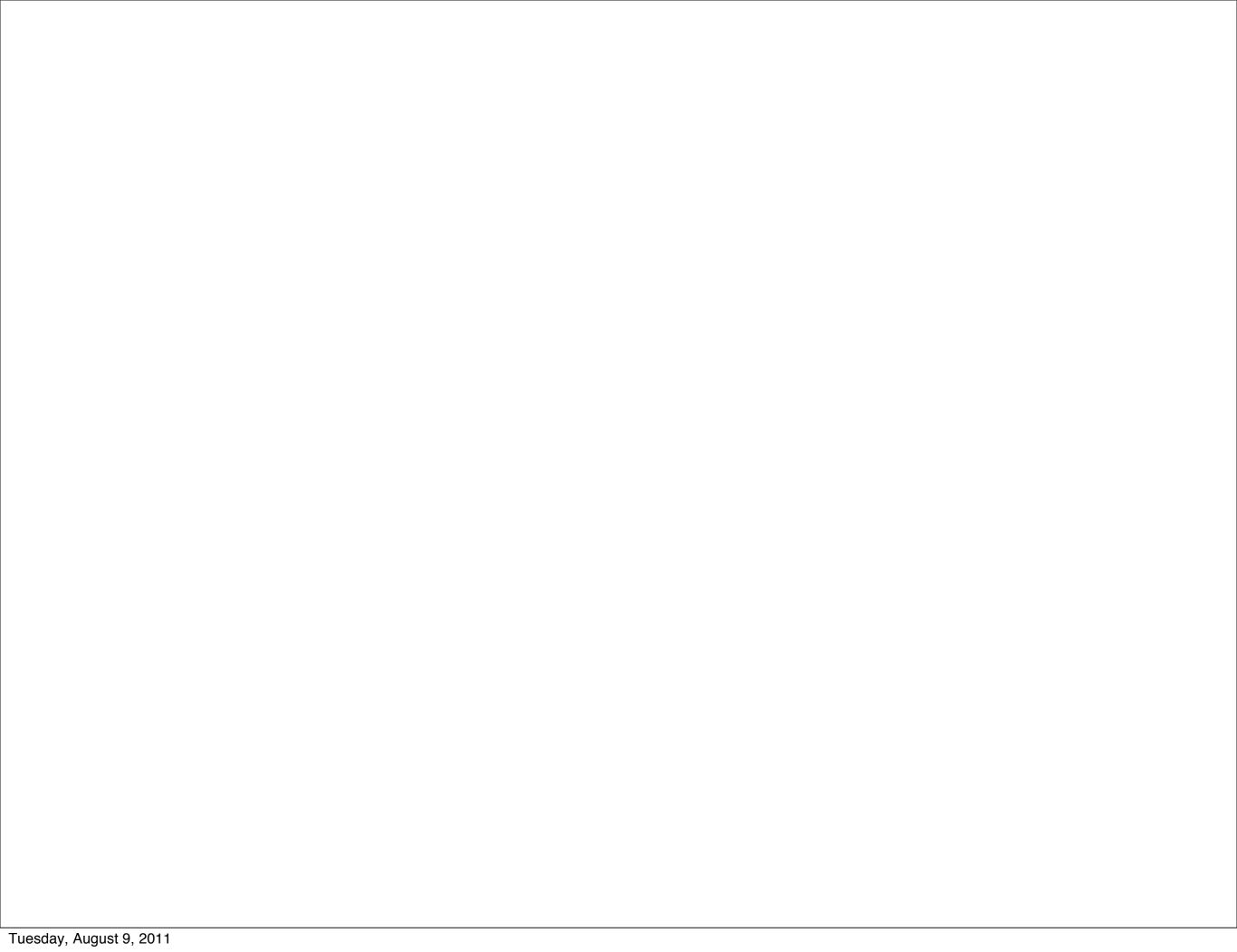




It's messy. It isn't perfect.

It doesn't follow a Gantt chart.





It accepts the **inherent complexity** and **uncertainty** that comes with software delivery.



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Manifesto for Agile Software 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 software over comprehensive documentation
Customer collaboration over contract negotiation
Responding to change over following a plan

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

12 Principles

Face-to-face

Continuous delivery

Simplicity

Working together

Self organization

Working software

Sustainable pace

Motivated individuals

Welcoming change

Technical excellence

Frequent delivery

Continuous improvement

Agile myths







Agile is a silver bullet

- You can fail just as spectacularly on an agile project as any other.
- You just might do it sooner.





Agile teams don't do documentation

- More accurate to say agile teams don't write any 'unnecessary documentation'.
- Treat documentation like any other deliverable:
 - Estimated and prioritized.
- Prefer face-to-face communication.





Agile is anti-planning

- Agile teams plan extensively
 - –Every quarter (release)
 - –Every couple weeks (iterations)
 - –Every day (daily stand-ups)
- Uses different tools
 - Burn downs vs Gantt charts
- Planning is very visible
 - -Stakeholders know early if there is a problem



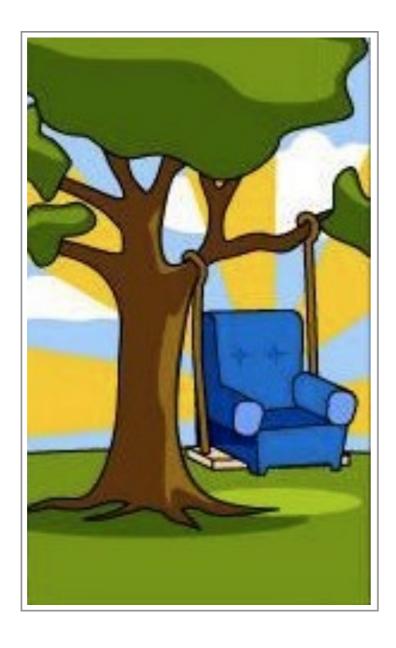
Agile is undisciplined

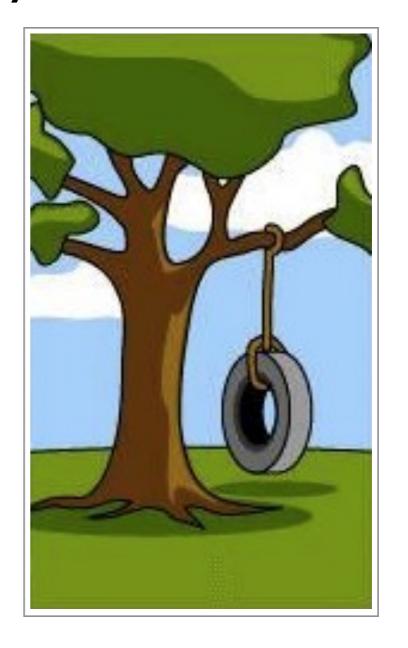
- Truth is agile is very disciplined
 - You have to test.
 - You have to get feedback.
 - You have to regularly ship.
 - You have to update the plan.



Agile is anti-architecture

Don't build this ... if all you need is this.







Agile doesn't scale

Agile scales like any other software process

- Not that great -

 Instead of looking at how to scale up, try to imagine ways you could scale down.

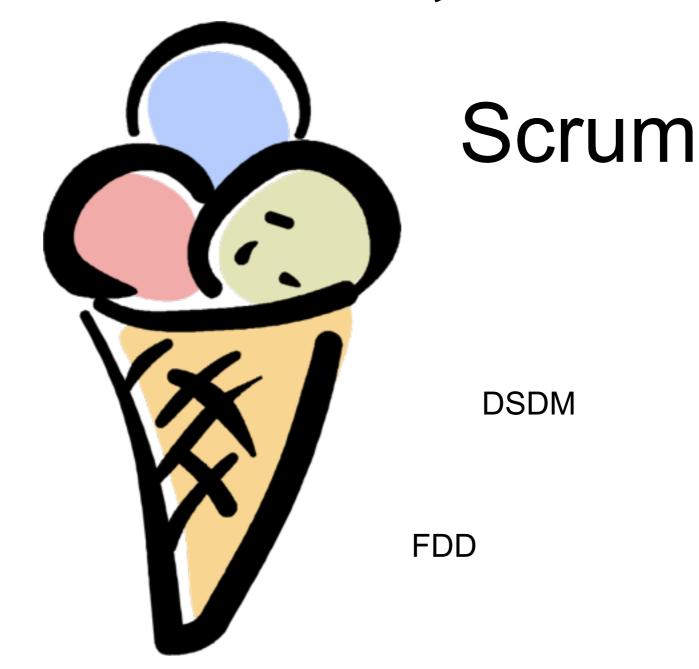
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Agile comes in many flavours

Crystal

Lean

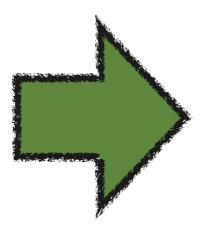


Extreme Programming (XP)

Lean Toyota's ultra-lean manufacturing process.

I would like to buy a Toyota Camry please.







Eliminating waste

Lean



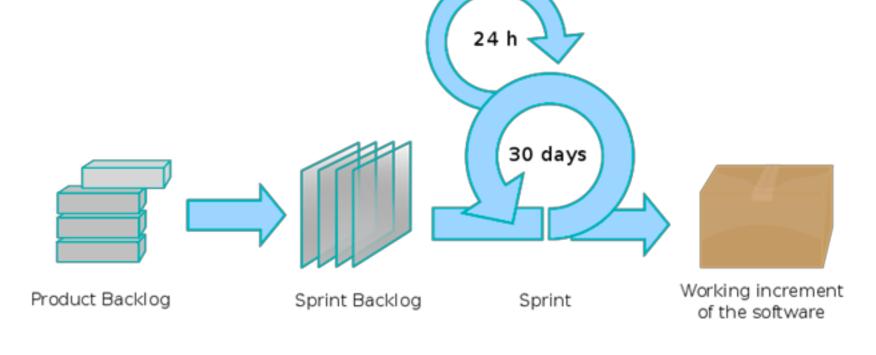
- Very good high-level principles and practices
- Addresses system and organizational inefficiencies



- Not IT specific
- Can be harder to implement

Lean has a lot to offer. Very worth studying!

Scrum



- A project management wrapper for incremental delivery of projects, independent of technology or business vertical.
- Can be used in non-IT projects.

Scrum



- Easy to understand /pickup
- Low barrier of entry
- Speaks well to project managers
- Non-threatening
- Very popular

- Silent on engineering
- Easy to do the easy stuff while skipping on the hard

Easy to adapt - most non-threatening.

Extreme Programming

- Popularized software engineering practices necessary for agile development
- Emphasizes
 - –upfront testing
 - -automation
 - –evolutionary design
 - –continuous integration



Extreme Programming



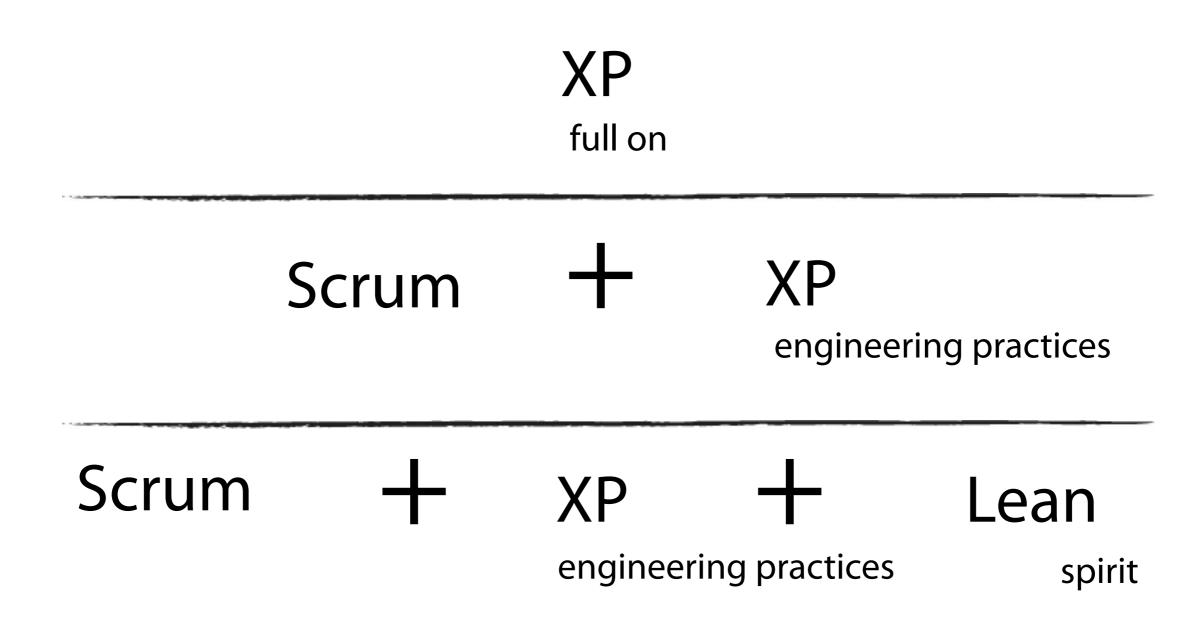
- Sound engineering practices
- Strong in development community
- First real popular agile method

- Very developer focused
- Hard for other disciplines relate
- Sometimes characterized by zealots

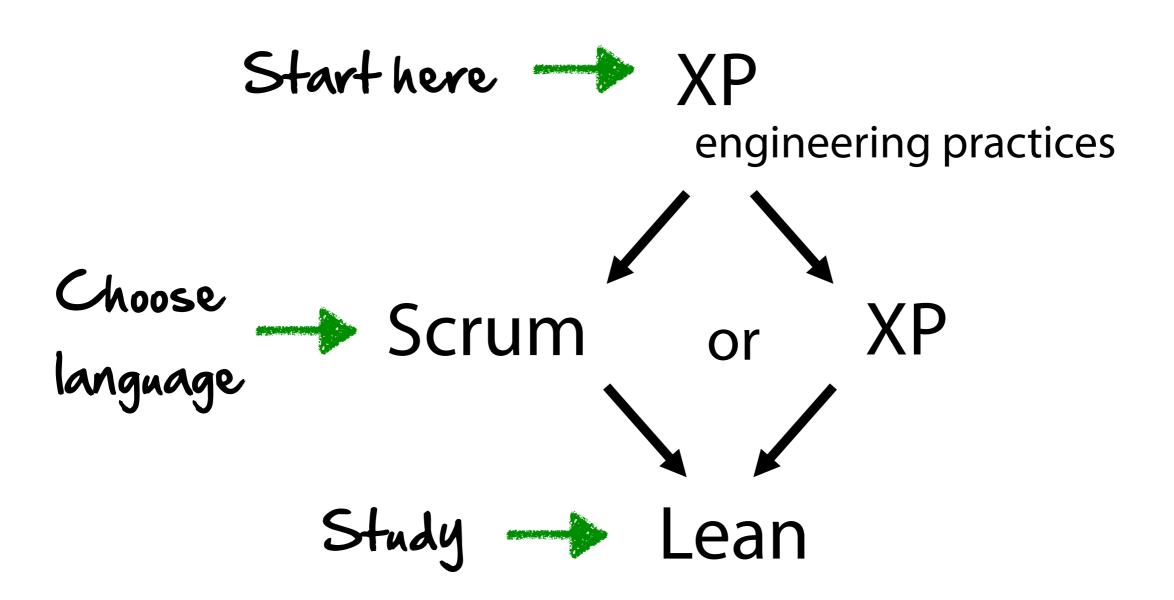
Essential engineering practices

- unit testing - refactoring - continuous integration - test-Driven Design (TDD)

Options for adopting



What I recommend



There is no one way

Extreme Programming (XP)



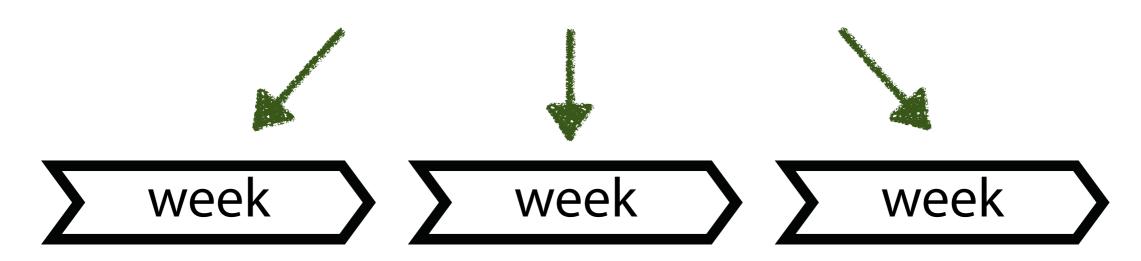
Do what ever works for you

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Step I: Deliver something of value every week



- 1. Big problems down into smaller ones.
- 2. Important stuff first.
- 3. Forces you to test.
- 4. You'll want feedback.
- 5. Change course when necessary.



Step 2: Start doing these 4 software engineering practices today!

- 1. Unit testing
- 2. Refactoring
- 3. Test Driven-Development
- 4. Continuous Integration





Accept three simple truths

- 1. It is impossible to gather all the requirements at the beginning of a project.
- 2. Whatever requirements you do gather are guaranteed to change.
- 3. There will always be more to do than time and money will allow.



Final words

Do I think everyone will one day be doing agile?

NO

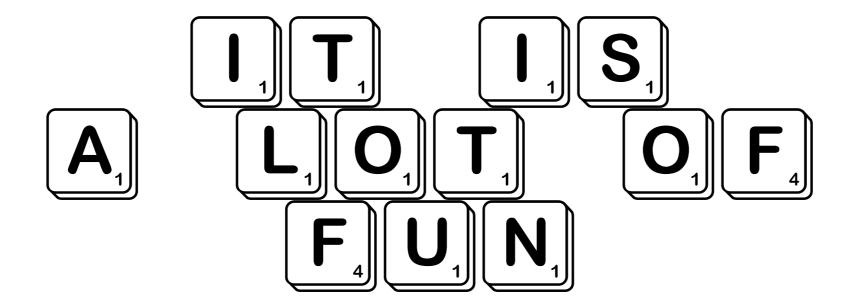
For the same reason people don't eat right and exercise.

Agile is hard It's tough! Requires a lot of discipline

And thinking

Not everyone's into this kind of stuff.

But it is a very natural way to work A lot of people enjoy it



Learn more

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