

# **Agile Foundations**

## **Agile Mindset**

Contents

Agile Foundations  
The agile manifesto: Principles

5,844 43,711

# 12 Agile Principles

Continuous delivery as a measure of progress

1

2

3

4

5

6

7

8

9

10

11

12

to continuous software delivery in weeks

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Contents

Agile Foundations  
The agile manifesto: Values

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# The Agile Manifesto

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

It reads, we are uncovering better ways of developing

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Contents

Agile Foundations  
The agile manifesto: Values

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# The Agile Manifesto

Individuals and interactions

Working software

Customer collaboration

Responding to change

Processes and tools

Comprehensive documentation

Contract negotiation

Following a plan

we value the items on the left more.

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0:58 / 3:20

1.5x

Contents

Agile Foundations  
The agile mindset

5,83443,508

Contents

Agile Foundations  
The agile mindset

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# Agile Teams

Ask tough questions

Are open to improvement

and be open to continuous improvement.

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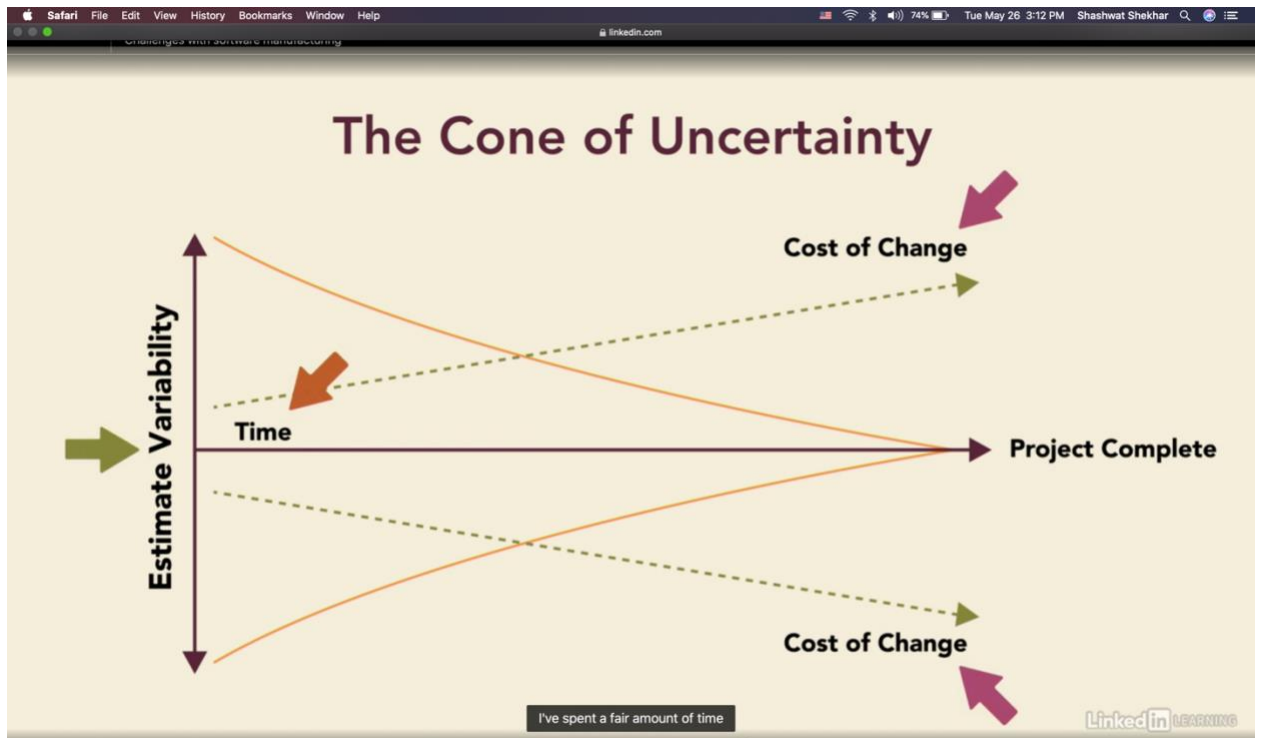
2:15 / 3:24

1.5x

Contents

Agile Foundations  
The agile mindset

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Contents

Agile Foundations  
The cost of multitasking

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# Agile Principle 3

Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the *shorter timescale*.

Sprints

You have to be very careful

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2:01 / 2:501.5x

Contents

Agile Foundations  
Challenges with software manufacturing

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# Traditional Planning

- 1 | Plan the project.
- 2 | Execute the project.
- 3 | Test the project.

Each of these phases happens sequentially

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1:19 / 3:511.5x

## **Individuals and Interactions**

Agile teams should be *cross-functional*.

A cross-functional team has each team member

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## Handoffs

Finishing work on a task and then giving to another person or department for processing

What usually happens is that you finish your work

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Planning  $\neq$  Delivering

and delivering are two different things.

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# Agile Principle 1

Our highest **priority** is to satisfy the customer through early and continuous delivery of **valuable** software.

are the words priority and valuable.

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Contents

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User stories

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Agile Principle 6

Agile Value 2

Face-to-face communication and independence from documentation

So user stories aren't about getting the right format,

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0:49 / 3:05

1.5x

Contents

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The Penny Game

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# Penny Processing Times (Seconds)

	Batch Size	Analyst	Designer	Engineer	Architect	Tester	First Penny Delivery	Last Penny Delivery
Round 1	10	8.37	8.72	11.16	11.00	10.83	51.74	--
Round 2	5	11.00	11.35	12.86	11.15	11.63	28.00	34.53
Round 3	2	10.09	12.53	14.98	15.05	14.22	11.00	23.28

So if you're a manager seeing this dip

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3:12 / 3:44

1.5x

# Sprint

A timeboxed iteration of work intended to deliver a shippable portion of a product in a shorter time scale

to deliver products quickly.

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Agile teams deliver in *short time frames*.

They don't rely on long-term plans.

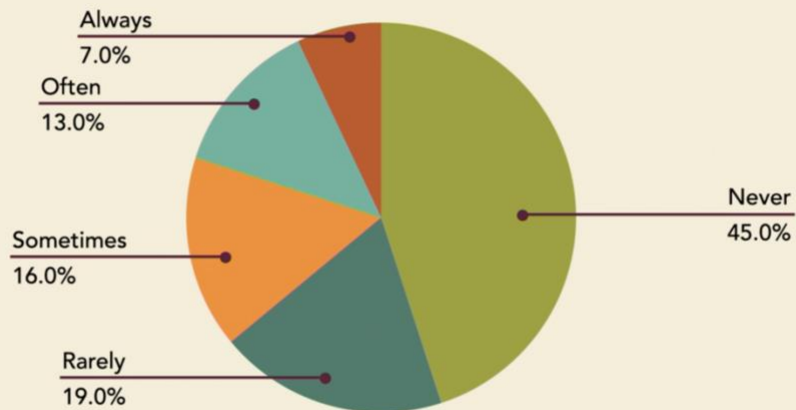
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# What vs. How

The product owner worries about what the customer wants

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**Deliver Working Software**



Finally, 13% are often used and 7% are always used.

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## Agile Principle 2

Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.

in the principle two of the manifesto.

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## Agile Principle 3

Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale.

## Agile Principle 8

Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.

It said that agile teams

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Website as ~~project~~ product

to the customer in short sprints.

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## Chapter Quiz



Question 1 of 1

Your agile team needs to be able to verify that they are working on the highest value features. Which type of tool would they use?

✔ You are correct!

a task board

Feedback

This is known as a swim lane diagram. It helps agile teams stay focused on the highest value items and who is working on what.

Next

Contents

Agile Foundations  
Inspect and adapt

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"Embracing change"

"Inspecting and adapting"

Extreme programming

Scrum

and adapting are really two ways of doing the same thing,

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1:10 / 3:31

1.5x

**Respond To Change**



# Timebox Usage

- | Each person has their own
- | No more than eight hours work
- | Overtime work disrupts team's predictability

or working over the weekends,

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Agile is a *mindset*.

you can try to help you embrace that  
mindset.

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Contents

Agile Foundations  
Jump off the waterfall

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Agile is a mindset.

Waterfall is a strict process.

It's strict guidelines for how you should do your work.

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1:28 / 3:181.5x

Contents

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Commit to sprints

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Sprint Review

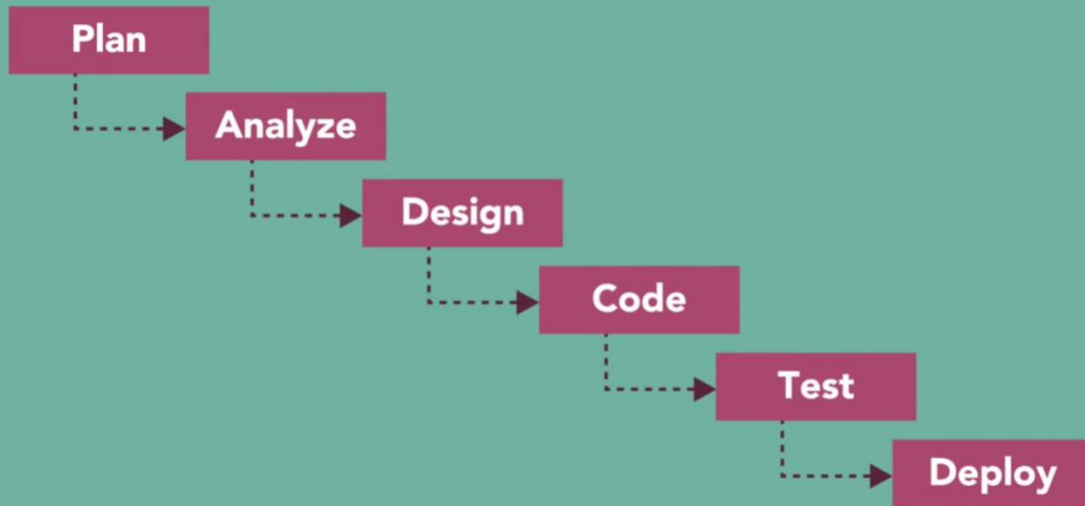
Customer feedback

Less than two hours

that was done during the Sprint.

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1:52 / 2:571.75x



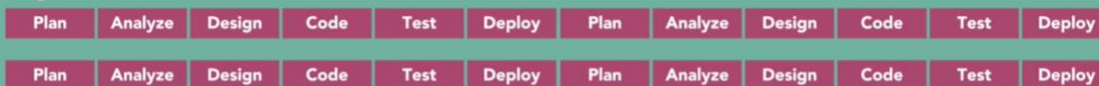
test the software, and deploy.

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## Waterfall



## Sprints



You'll see a little bit more about Scrum later on.

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# **Agile Scrum Framework**

# Extreme Programming

- | User stories
- | Continuous integration
- | **Test-driven development**

before they actually start development.

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## Agile Principle 1

Our highest priority is to satisfy the customer through early and *continuous delivery of valuable software*.

Lean Thinking

continuously improving the product over time.

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# Scrum

Empirical process control framework

runs experiments to improve the product.

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## **Agile Roles**

# Agile Challenges

- | Comfort with uncertainty
- | Eliminating handoffs
- | Working software as status updates

That means that you'll want to attend

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## Control Culture

Way of work based on a clear hierarchy  
of supervisors that values predictability

This is a culture that's based on a hierarchy

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# Organizational Culture

A way of communicating, set of values and expectations, and collection of meanings that make up how people do work in an organization

unseen and unspoken way of working.

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# Product Owner

- | Works with the team
- | Has shared responsibility

between the product owner and the development team.

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# Scrum Master Role

- | Coaches
- | Encourages
- | Facilitates self-management

you'd want to encourage the team to self-manage.

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# Scrum Master

- | Trainer or coach
- | Administrative worker
- | "Bulldozer"
- | "Shield"

These obstacles can be contacting someone,

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