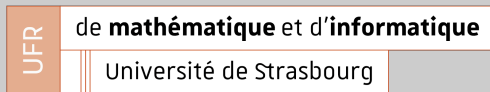


Introduction to Agile Software Development



Carpi Lapi, REGARDIN, Senger, Sengler

February 7, 2024

What is Agile methodology?

The Agile methodology is a project management approach that involves:

Teams follow a cycle of:

What is Agile methodology?

The Agile methodology is a project management approach that involves:

- breaking the project into phases

Teams follow a cycle of:

What is Agile methodology?

The Agile methodology is a project management approach that involves:

- breaking the project into phases
- emphasizing continuous collaboration and improvement

Teams follow a cycle of:

What is Agile methodology?

The Agile methodology is a project management approach that involves:

- breaking the project into phases
- emphasizing continuous collaboration and improvement

Teams follow a cycle of:

- planning

What is Agile methodology?

The Agile methodology is a project management approach that involves:

- breaking the project into phases
- emphasizing continuous collaboration and improvement

Teams follow a cycle of:

- planning
- executing

What is Agile methodology?

The Agile methodology is a project management approach that involves:

- breaking the project into phases
- emphasizing continuous collaboration and improvement

Teams follow a cycle of:

- planning
- executing
- evaluating

What is Agile methodology?

The Agile methodology is a project management approach that involves:

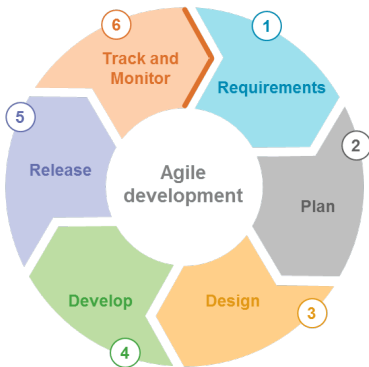
- breaking the project into phases
- emphasizing continuous collaboration and improvement

Teams follow a cycle of:

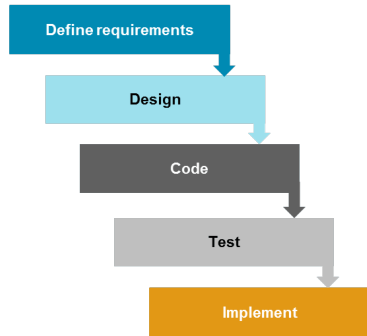
- planning
- executing
- evaluating
- consulting with the client

Agile vs Waterfall

Agile

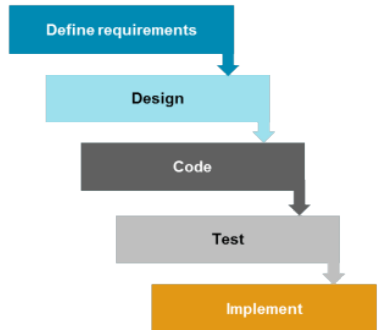


Waterfall



Agile vs Waterfall

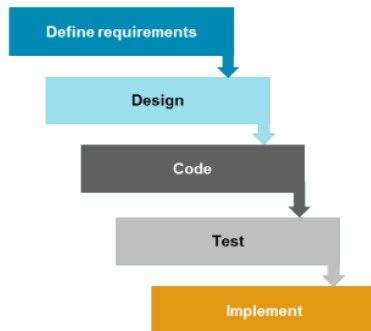
Waterfall



Agile vs Waterfall

- Emphasizes detailed upfront **planning**

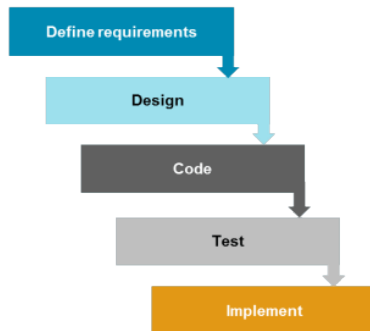
Waterfall



Agile vs Waterfall

- Emphasizes detailed upfront **planning**
- Progress is measured by meeting project **milestones**

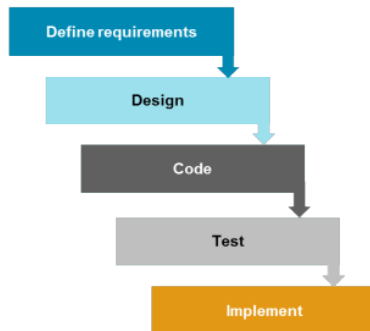
Waterfall



Agile vs Waterfall

- Emphasizes detailed upfront **planning**
- Progress is measured by meeting project **milestones**
- Rigidity can lead to **difficulties in responding to changes**

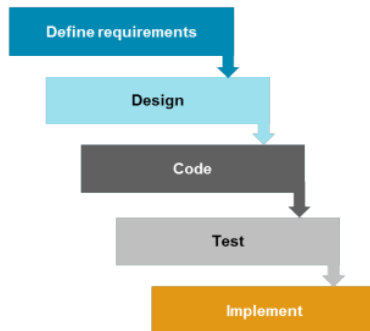
Waterfall



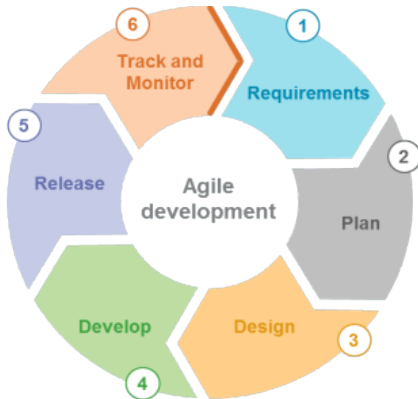
Agile vs Waterfall

- Emphasizes detailed upfront **planning**
- Progress is measured by meeting project **milestones**
- Rigidity can lead to **difficulties in responding to changes**
- Suitable for projects with **well-defined requirements**

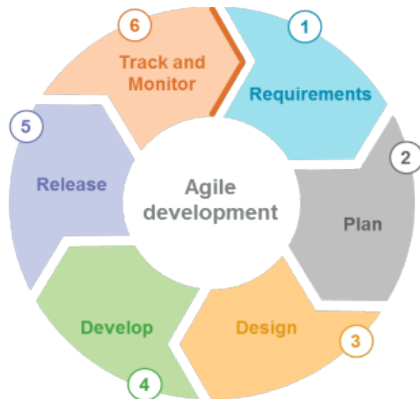
Waterfall



Agile vs Waterfall

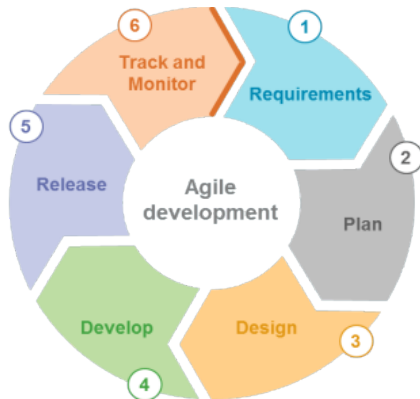


Agile vs Waterfall



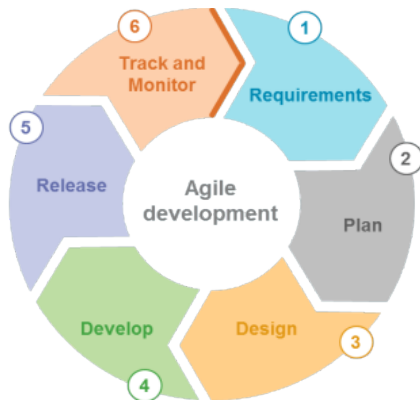
- **Iterative** and incremental development

Agile vs Waterfall



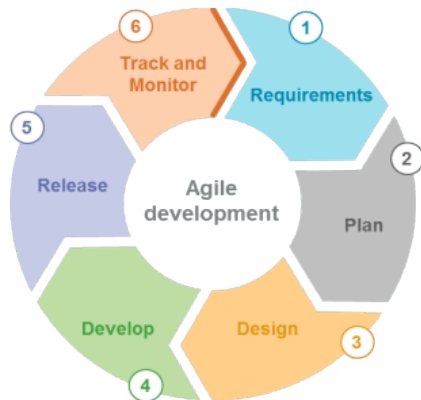
- **Iterative** and incremental development
- Customer **feedback** is incorporated throughout the process

Agile vs Waterfall



- **Iterative** and incremental development
- Customer **feedback** is incorporated throughout the process
- Embraces **flexibility** and customer collaboration

Agile vs Waterfall



- **Iterative** and incremental development
- Customer **feedback** is incorporated throughout the process
- Embraces **flexibility** and customer collaboration
- **Adaptive approach** to changing requirements

General Agile guideline

the Agile Manifesto :

- ① 4 values
- ② 12 commandments of Agile development
- ③ Agile mindset:

General Agile guideline

the Agile Manifesto :

- ① 4 values
 - Individuals and interactions over processes and tools

- ② 12 commandments of Agile development
- ③ Agile mindset:

General Agile guideline

the Agile Manifesto :

- ① 4 values
 - Individuals and interactions over processes and tools
 - Working software over comprehensive documentation
- ② 12 commandments of Agile development
- ③ Agile mindset:

General Agile guideline

the Agile Manifesto :

- ① 4 values
 - Individuals and interactions over processes and tools
 - Working software over comprehensive documentation
 - Customer collaboration over contract negotiation
- ② 12 commandments of Agile development
- ③ Agile mindset:

General Agile guideline

the Agile Manifesto :

- ① 4 values
 - Individuals and interactions over processes and tools
 - Working software over comprehensive documentation
 - Customer collaboration over contract negotiation
 - Responding to change over following a plan
- ② 12 commandments of Agile development
- ③ Agile mindset:

General Agile guideline

the Agile Manifesto :

- ① 4 values
 - Individuals and interactions over processes and tools
 - Working software over comprehensive documentation
 - Customer collaboration over contract negotiation
 - Responding to change over following a plan
- ② 12 commandments of Agile development
- ③ Agile mindset:
 - Teamwork

General Agile guideline

the Agile Manifesto :

① 4 values

- Individuals and interactions over processes and tools
- Working software over comprehensive documentation
- Customer collaboration over contract negotiation
- Responding to change over following a plan

② 12 commandments of Agile development

③ Agile mindset:

- Teamwork
- Continuous Improvement

General Agile guideline

the Agile Manifesto :

① 4 values

- Individuals and interactions over processes and tools
- Working software over comprehensive documentation
- Customer collaboration over contract negotiation
- Responding to change over following a plan

② 12 commandments of Agile development

③ Agile mindset:

- Teamwork
- Continuous Improvement
- Collaboration

General Agile guideline

the Agile Manifesto :

① 4 values

- Individuals and interactions over processes and tools
- Working software over comprehensive documentation
- Customer collaboration over contract negotiation
- Responding to change over following a plan

② 12 commandments of Agile development

③ Agile mindset:

- Teamwork
- Continuous Improvement
- Collaboration
- Adaptability

General Agile guideline

the Agile Manifesto :

① 4 values

- Individuals and interactions over processes and tools
- Working software over comprehensive documentation
- Customer collaboration over contract negotiation
- Responding to change over following a plan

② 12 commandments of Agile development

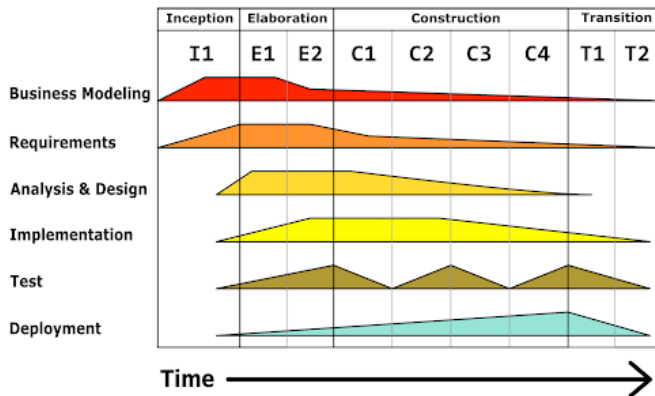
③ Agile mindset:

- Teamwork
- Continuous Improvement
- Collaboration
- Adaptability
- Frequent Delivery

The Agile Timeline

Iterative Development

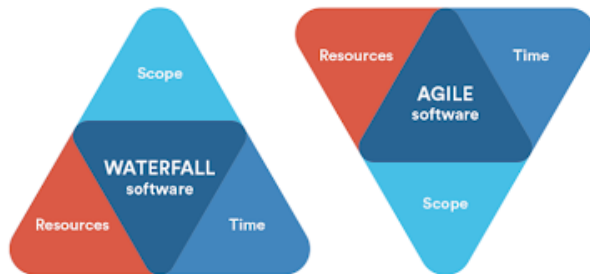
Business value is delivered incrementally in time-boxed crossdiscipline iterations.



Pros and Cons of the Agile Method

Fixed

Estimated



Remain flexible, stay agile!

References

- <https://www.youtube.com/watch?v=goJu-DFGJ0o>
- <https://www.youtube.com/watch?v=1evfn3qTYGM>
- <https://project-management.com/agile-project-management/>
- <https://agilemanifesto.org/iso/en/manifesto.html>