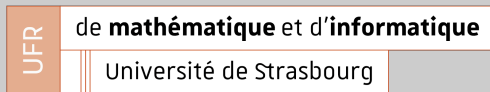


Introduction to Agile Software Development



Carpi Lapi, REGARDIN, Senger, Sengler

February 20, 2024

What is Agile methodology?

The Agile methodology is a project management approach that involves:

Teams follow a cycle of:

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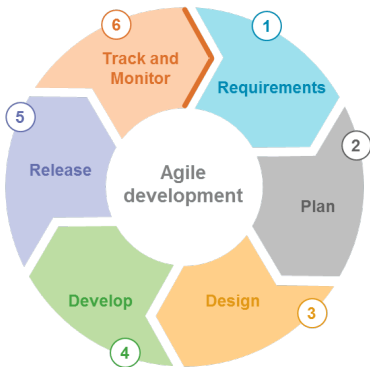
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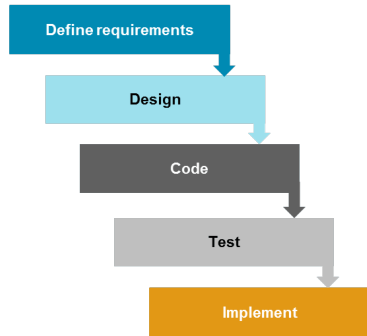
- planning
- executing
- evaluating
- consulting with the client

Agile vs Waterfall

Agile

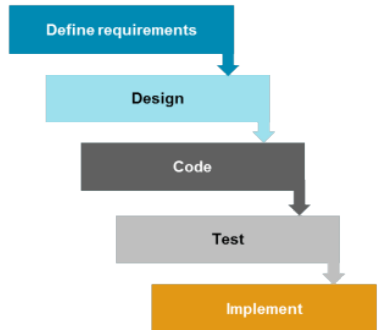


Waterfall



Agile vs Waterfall

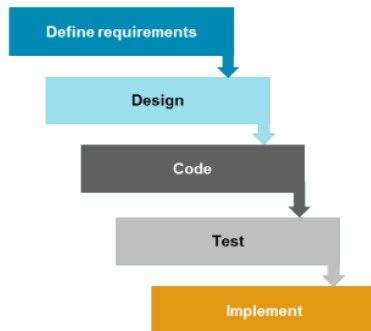
Waterfall



Agile vs Waterfall

- Emphasizes detailed upfront **planning**

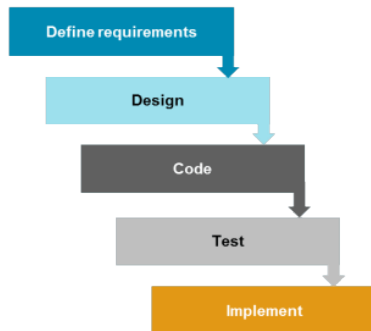
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Agile vs Waterfall

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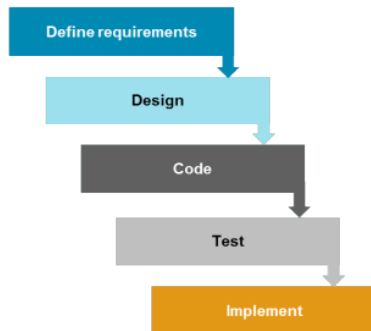
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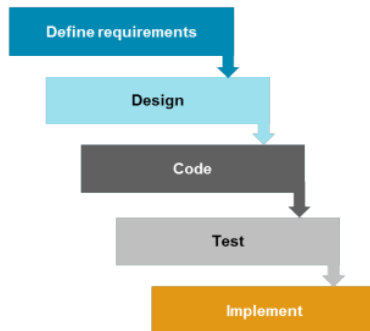
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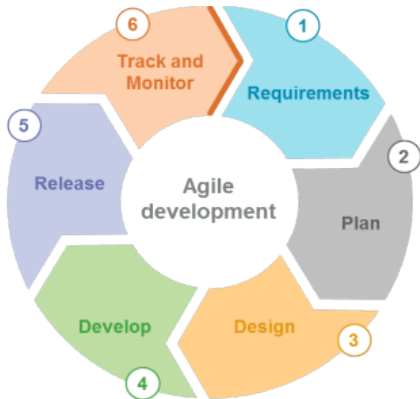
Agile vs Waterfall

- 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**

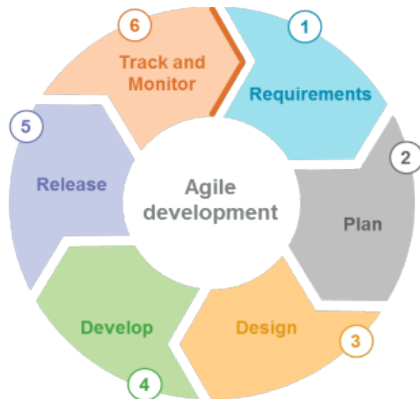
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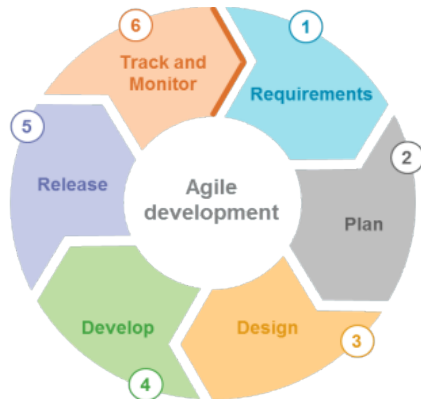


Agile vs Waterfall



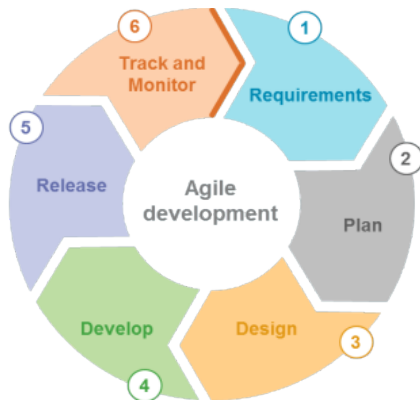
- **Iterative** and incremental development

Agile vs Waterfall



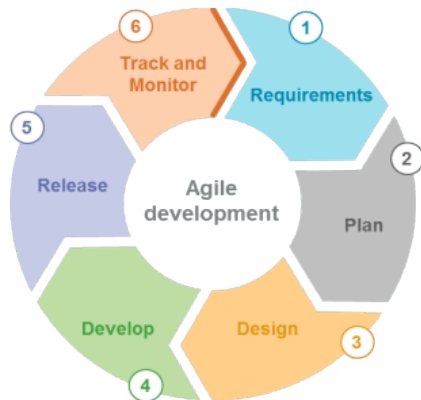
- **Iterative** and incremental development
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Agile vs Waterfall



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

General Agile guideline

the Agile Manifesto :

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

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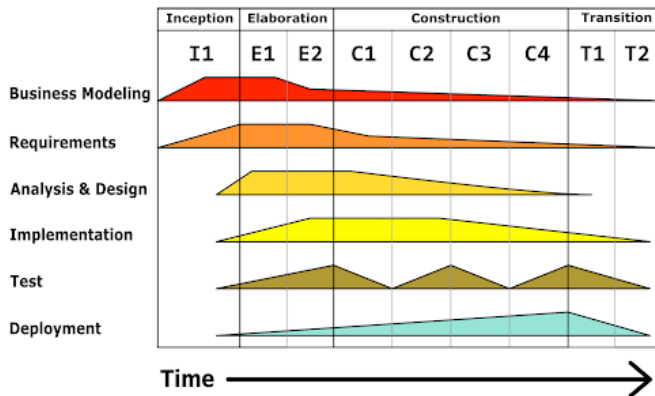
③ Agile mindset:

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

The Agile Timeline

Iterative Development

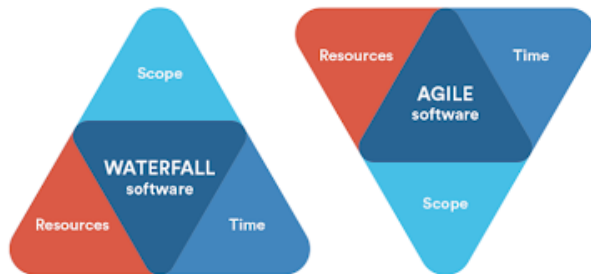
Business value is delivered incrementally in time-boxed crossdiscipline iterations.



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>