

## SOFTWARE DEVELOPMENT LIFE CYCLE











## **Software Development Methodologies**

- Waterfall Model
- Prototype Methodology
- Agile Methodology
- Rapid Application Development
- Dynamic System Development Model Methodology
- Spiral Model
- Extreme Programing Methodology





### Which methodology is better?



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# 1. Estimation should be done by team not manager



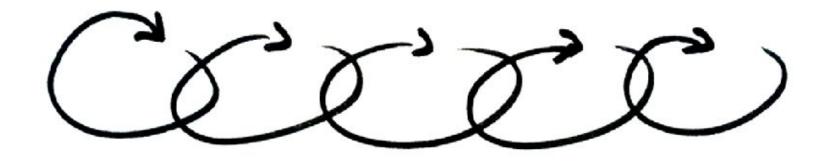




## 2. Plan the time when product will be released











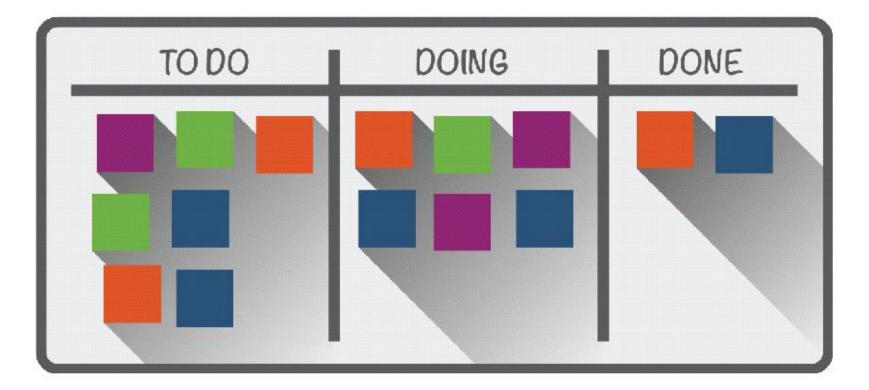




# 6. Don't hurry up or cut time for development









# PRIORITIES 1. 2. 3.

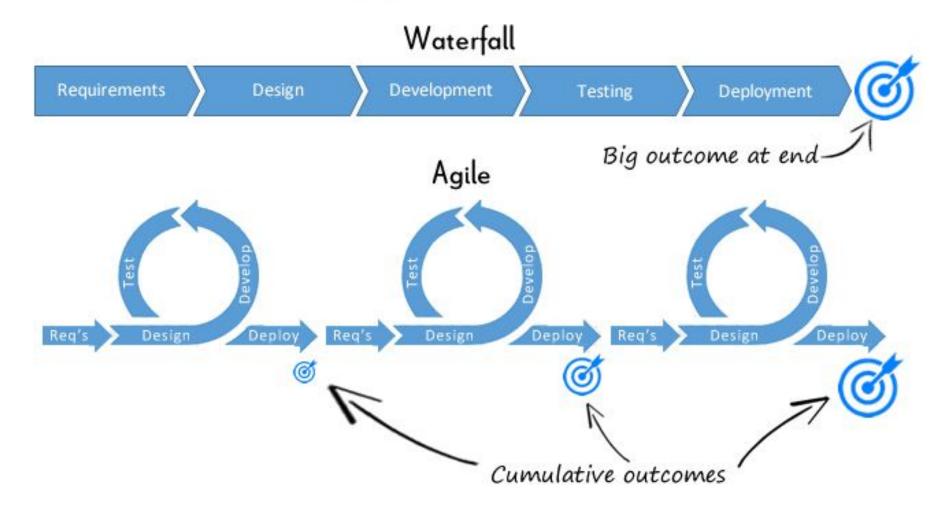




# Software development methodology

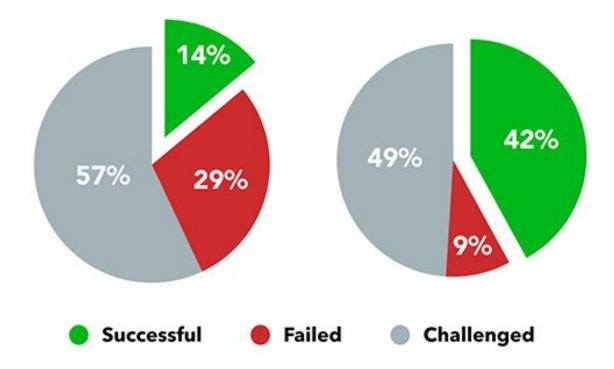
In software engineering, a software development methodology is a division of software development work into distinct phases (or stages) containing activities with the intent of better planning and management.





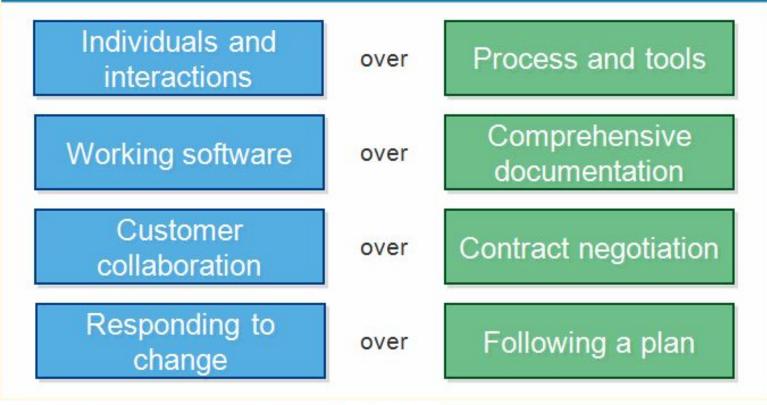


#### Waterfall vs. agile software delivery success

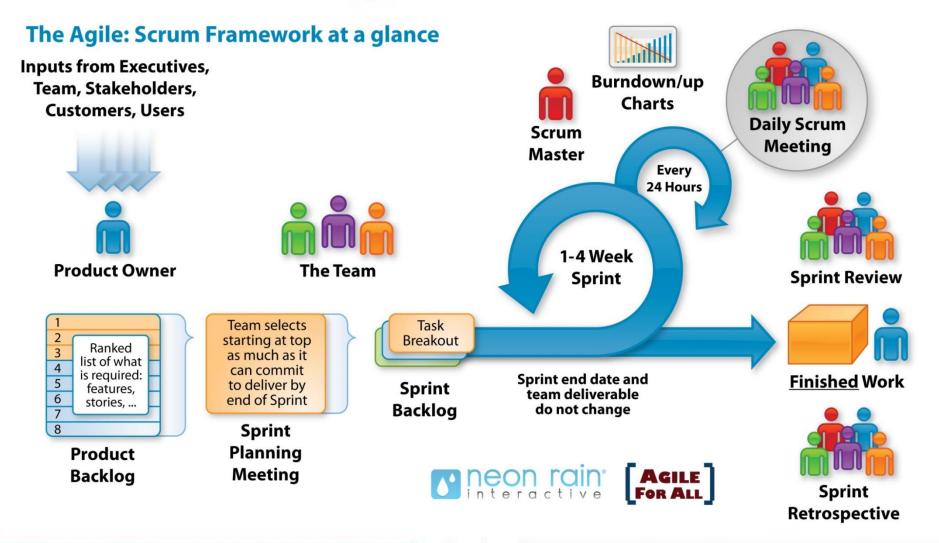




# The Agile Manifesto – a statement of values









# Product Owner





















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## Meeting

Planning Meeting

Daily Standup Meeting

- What is a Product Backlog?
- What can we do?
- Further details?
- Who will do it?
- How long will it take?

- Daily 15 minutes
- Issues:
  - $\circ$  What have I done?
  - What will I do?
  - $\circ$  What is my problem?

Sprint Review

- For the ProductOwner
- For the customers.
- At the end of each sprint

Sprint Retrospective

- Analysis of the work done
- At the end of sprint



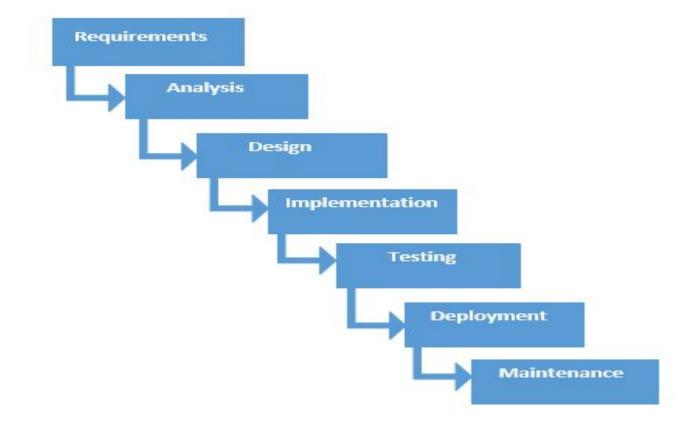
## Burn Down Chart





# https://www.youtube.com/watch?v=50 2ILHjX9EE

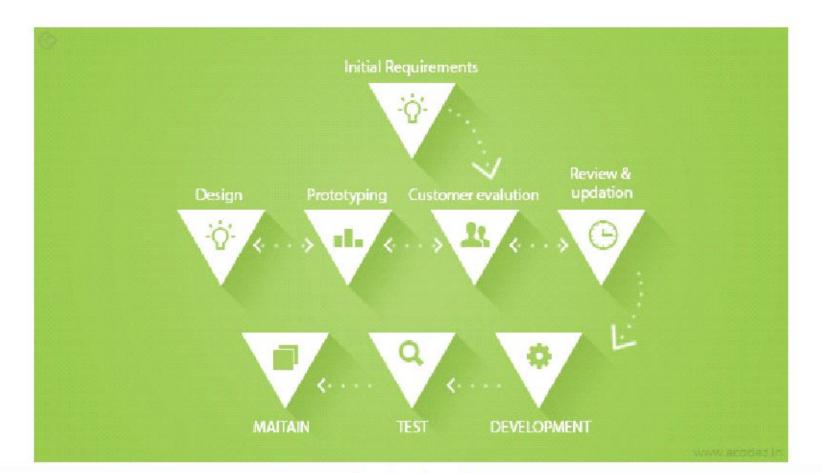


















#### More prescriptive

More adaptive

RUP (120+)		XP (13)	Scrum (12)	Kanban (3)	Do Whateve (0)
Architectura Revewer     Besimes Designer     Bissmes Designer     Bissmes Process Analyst     Caspada Designer     Contra Control Manager     Control Devideper     Detabase Designer     Detabase Devident     Design avait     Design avait	Histness use case selection     Sachess use case model     Sachess use case model     Sachess use case model     Configuration model     Configuration model     forange request     Configuration model     Saches     Saches model     Saches model     Saches     Saches	<ul> <li>Whole team</li> <li>Coding standard</li> <li>TDD</li> <li>Collective ownership</li> <li>Customer tests</li> <li>Pair programming</li> <li>Refactoring</li> <li>Planning game</li> <li>Continuous integration</li> <li>Simple design</li> <li>Sustainable pace</li> <li>Metaphor</li> <li>Small releases</li> </ul>	<ul> <li>ScrumMaster</li> <li>Product Owner</li> <li>Team</li> <li>Product backlog</li> <li>Sprint backlog</li> <li>Sprint planning meeting I + II</li> <li>Daily Scrum</li> <li>Sprint review</li> <li>Sprint retrospective</li> <li>Sprint</li> <li>Definition of Done</li> </ul>	•Visualize the workflow •Limit WIP •Measure and optimize lead time	

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+ Incorporate design

Test automation architec

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+ Test crosss

# Rational Unified Process Methodology (RUP)

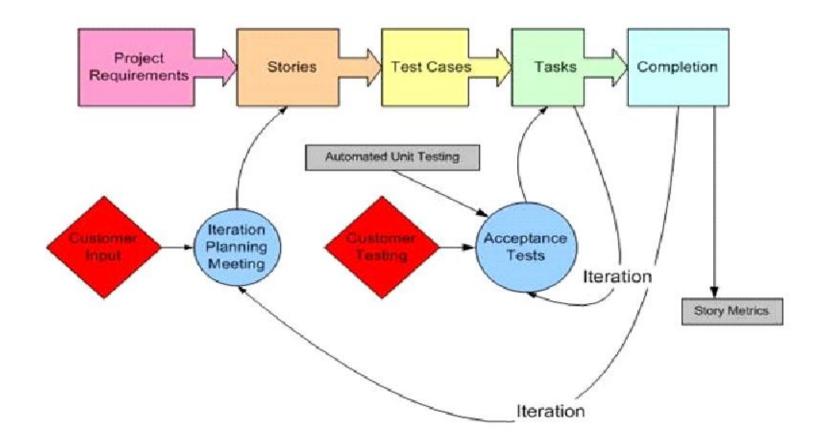








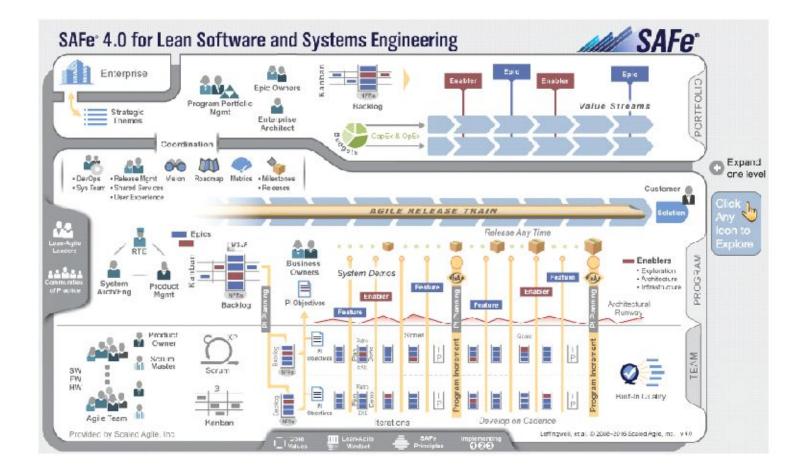
# It is chiefly used for crafting software within Very unbalanced (XPS) here.



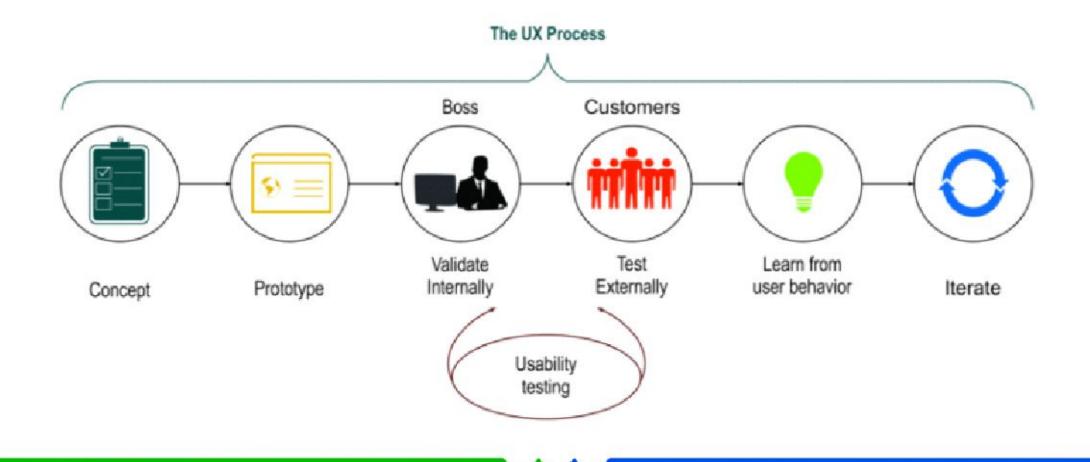




## http://www.scale Sealed Agile Framework (SAFe)



### Lean Development Methodology





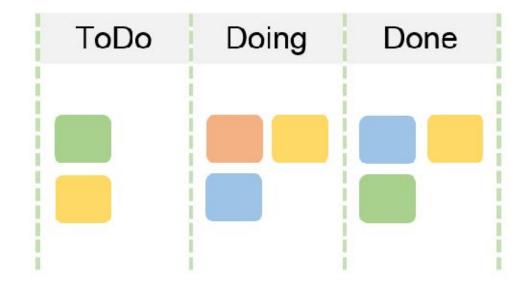














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