

Software Engineering

How SE industry is different from Coding assignment? (LAST)

- Implementation of a process that guarantees good results
- Involves whole development cycle
- How?

What is Software Engineering?

A laptop sits on a wooden desk in a dimly lit room. A desk lamp is positioned to the left of the laptop. The laptop screen shows a code editor with syntax-highlighted text. The background is dark, suggesting a window looking out at night.

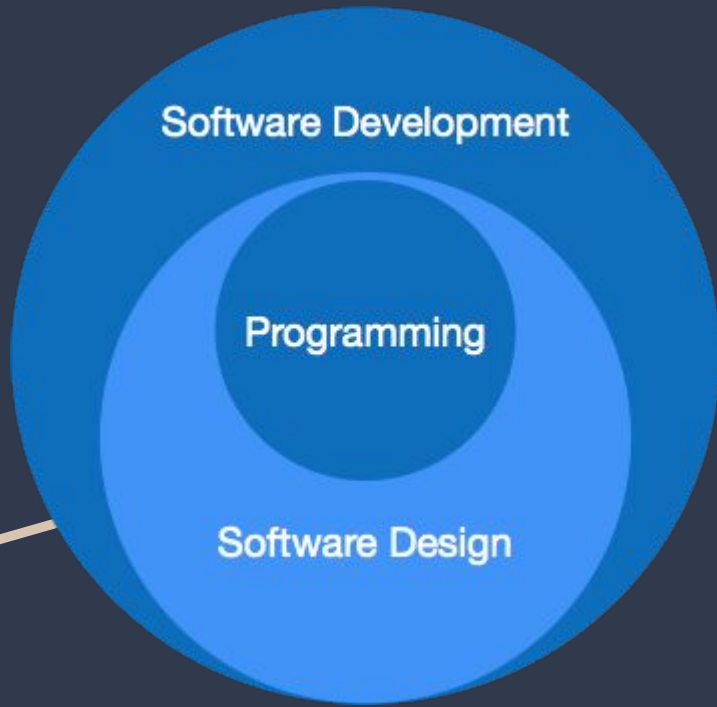
Different than other disciplines

- Software is designed, not manufactured
- Based on discrete Math
 - Small errors can have big consequences
- Software doesn't wear out
 - Because all problems are designed in
- Read The article together 'online'
- Anyone or two summaries the case.

SOFTWARE DEVELOPMENT LIFE CYCLE

- **SE practices are IMPORTANT!**
 - Analyzing historical failure
 - See the value in practices
- **Good Basic SE Practices**
 - Software process and projects management techniques
 - Requirement elicitation
 - Design and Architecture techniques
 - Coding Best Practices
 - Testing and analysis of code

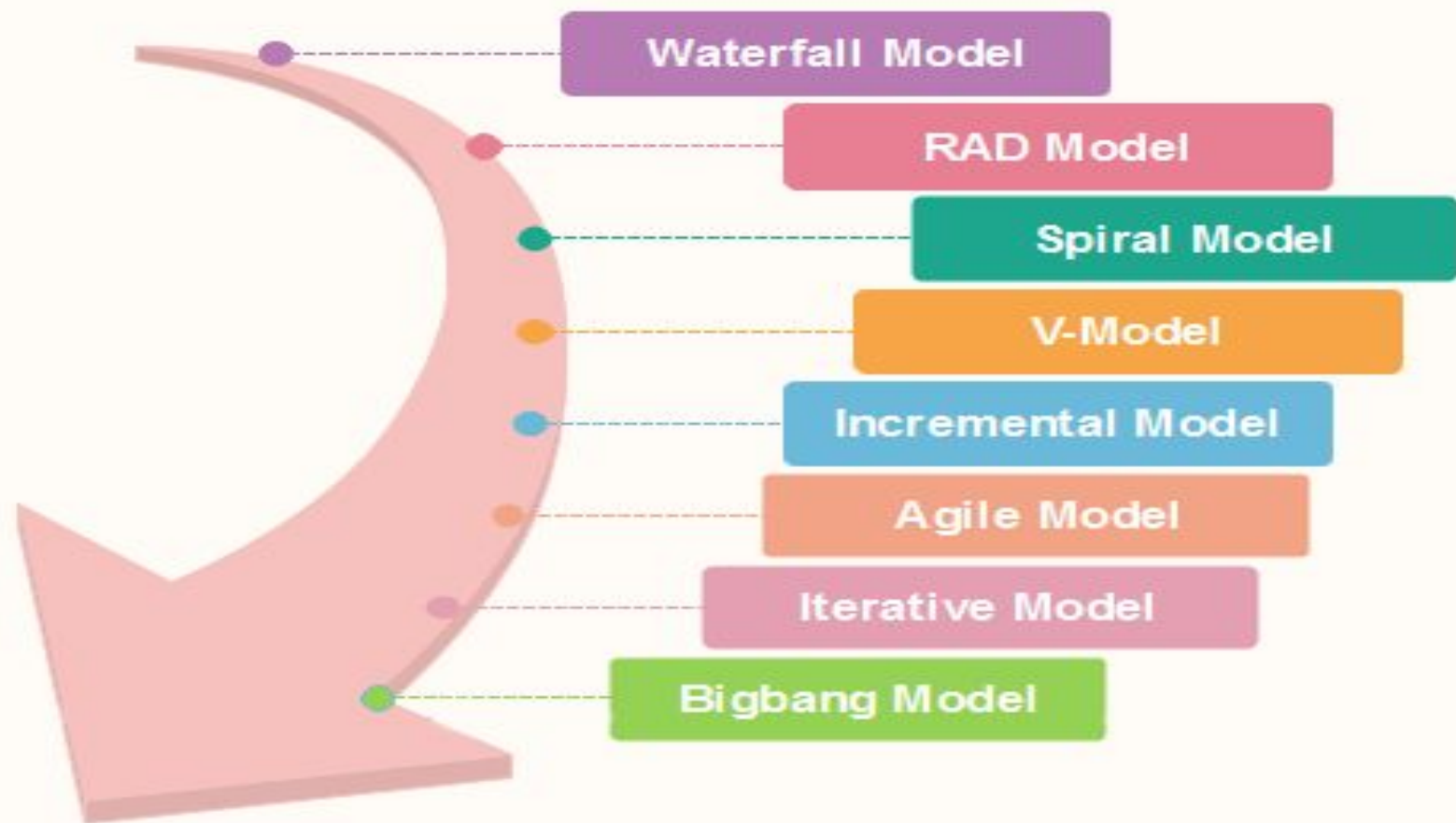
Where is SDLC?

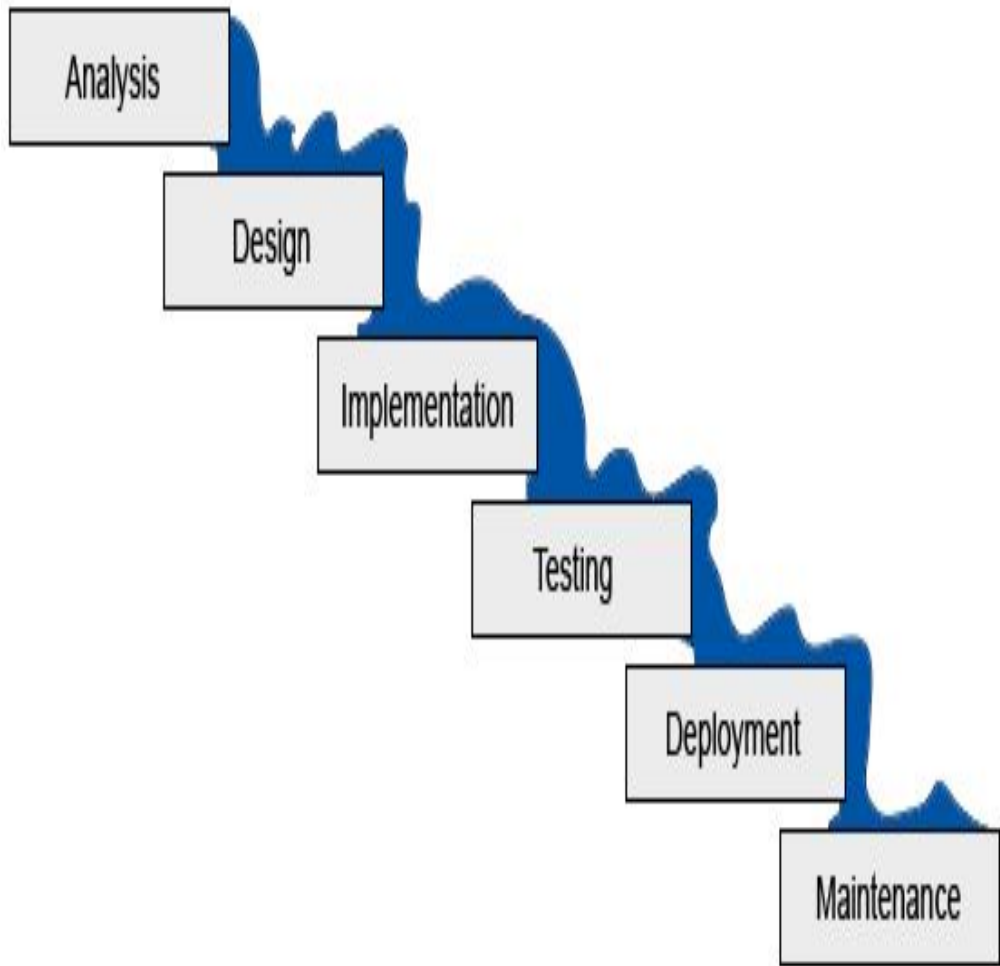
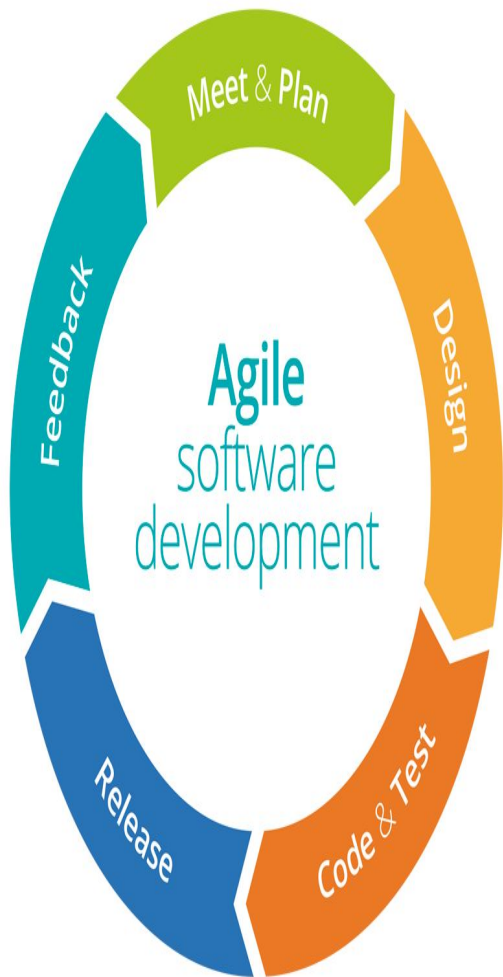


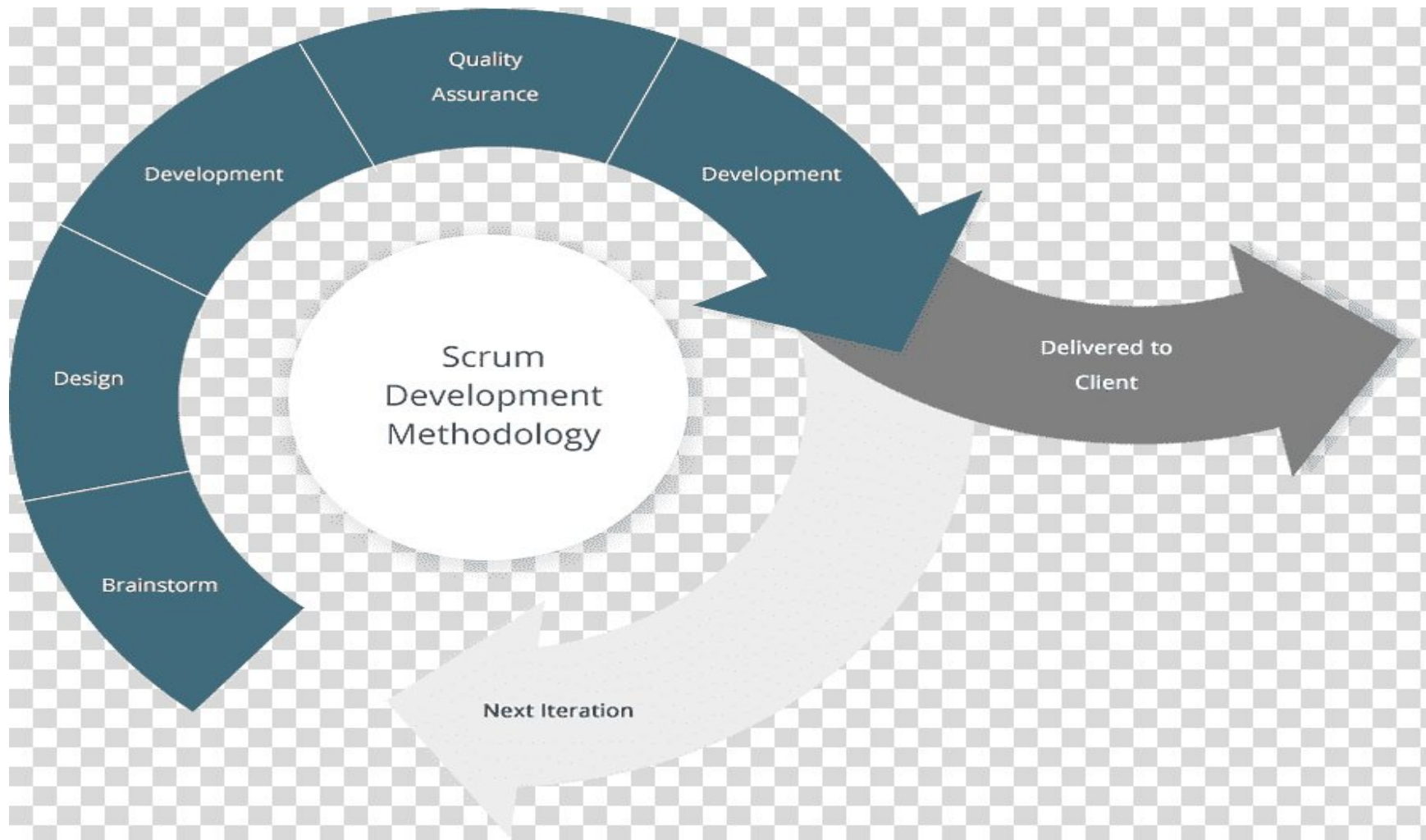
- **Can't you See here**
- This is a cycle and the cycle of a software.



SDLC (Models)









Business Owner



End Users



Domain Expert

Scrum Team



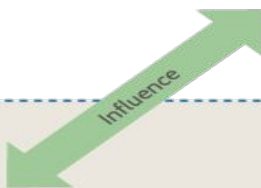
Product Owner

Manages the Product Backlog.
Optimizes the value of the Product.



Scrum Master

Manages the Scrum Process.
Remove Impediments.



Influence



Dev



QA



Dev



Business Analyst



Architect



Dev

Manages itself. Create Done Increments.

The Agile – Scrum Framework

