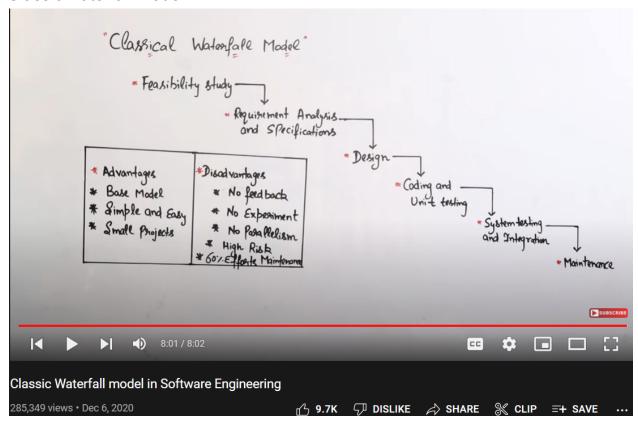
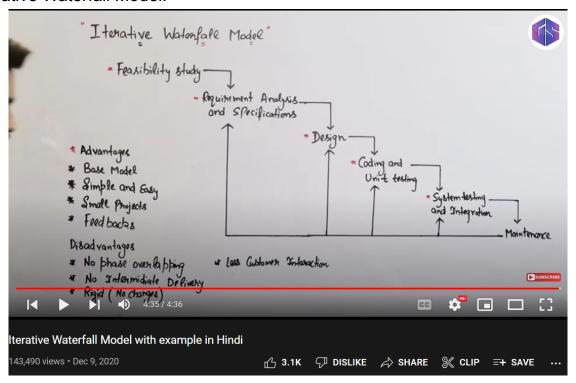
SE CHEAT SHEET

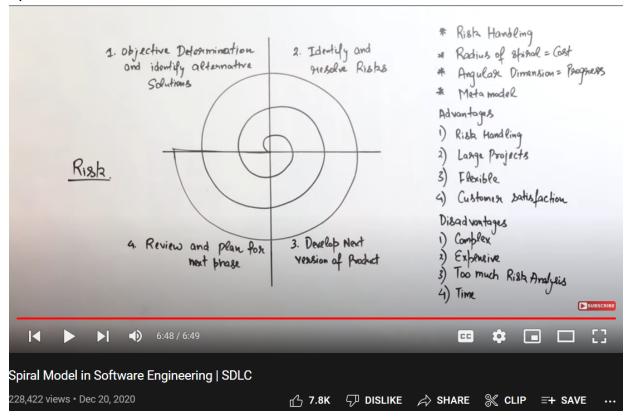
Classic waterfall model:



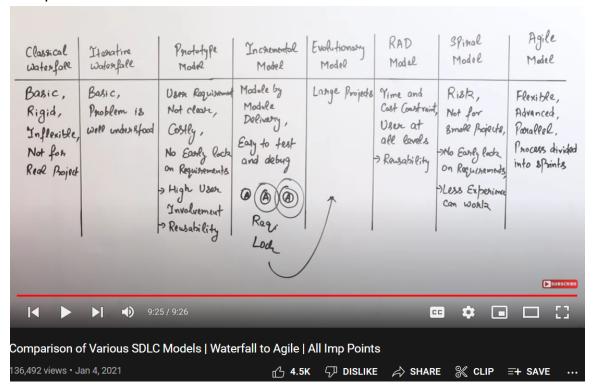
Iterative Waterfall Model:



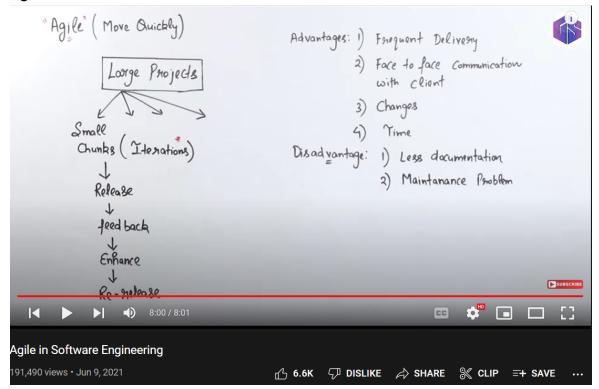
Spiral model:



Comparison between various models:

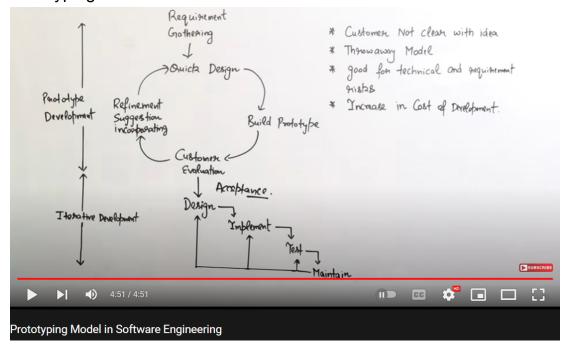


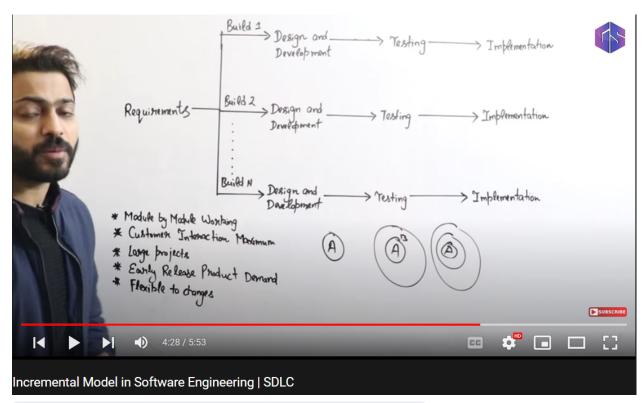
Agile model:



Software engineering is defined as a process of analyzing user requirements and then designing, building, and testing software applications which will satisfy those requirements.

Prototyping Model:





□ Incremental Model in Software Engineering | SDLC

Testing:

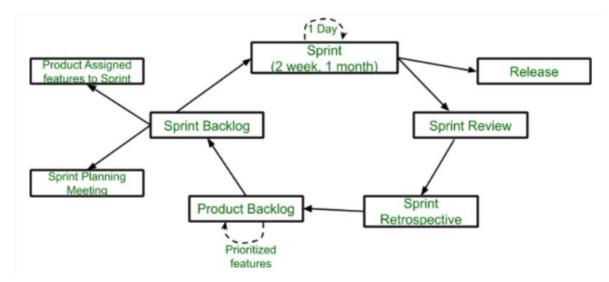
What is Testing? full Explanation | Software Engineering

SCRUM:

Scrum is the type of **Agile framework**. It is a framework within which people can address complex adaptive problem while productivity and creativity of delivering product is at highest possible values. Scrum uses **Iterative process**.

Silent features of Scrum are:

- · Scrum is light-weighted framework
- · Scrum emphasizes self-organization
- · Scrum is simple to understand
- · Scrum framework help the team to work together



Sprint:

A Sprint is a time-box of one month or less. A new Sprint starts immediately after the completion of the previous Sprint.

Release

When the product is completed then it goes to the Release stage.

Sprint Review:

If the product still have some non-achievable features then it will be checked in this stage and then the product is passed to the Sprint Retrospective stage.

Sprint Retrospective:

In this stage quality or status of the product is checked.

Product Backlog:

According to the prioritize features the product is organized.

Sprint Backlog:

Sprint Backlog is divided into two parts Product assigned features to sprint and Sprint planning meeting.

Advantage of using Scrum framework:

- Scrum framework is fast moving and money efficient.
- · Scrum framework works by dividing the large product into small sub-products. It's like a divide and conquer strategy
- In Scrum customer satisfaction is very important.
- Scrum is adaptive in nature because it have short sprint.
- · As Scrum framework rely on constant feedback therefore the quality of product increases in less amount of time

Disadvantage of using Scrum framework:

- Scrum framework do not allow changes into their sprint.
- Scrum framework is not fully described model. If you wanna adopt it you need to fill in the framework with your own details like Extreme Programming (XP), Kanban, DSDM.
- It can be difficult for the Scrum to plan, structure and organize a project that lacks a clear definition.
- The daily Scrum meetings and frequent reviews require substantial resources.