

# Software Process Model: Spiral Model

**Spiral Model** was originally proposed by **Boehm**.

Rather than represent the software process as a **Sequence of activities** with some **Backtracking** from one activity to another, the process is represented as a **Spiral**.

Each Loop in Spiral Model Represents a phase of the Software process.



In this model, developers define and implement features in order of decreasing priority.

Exact Numbers of loops in the spiral is **Not Fixed**.

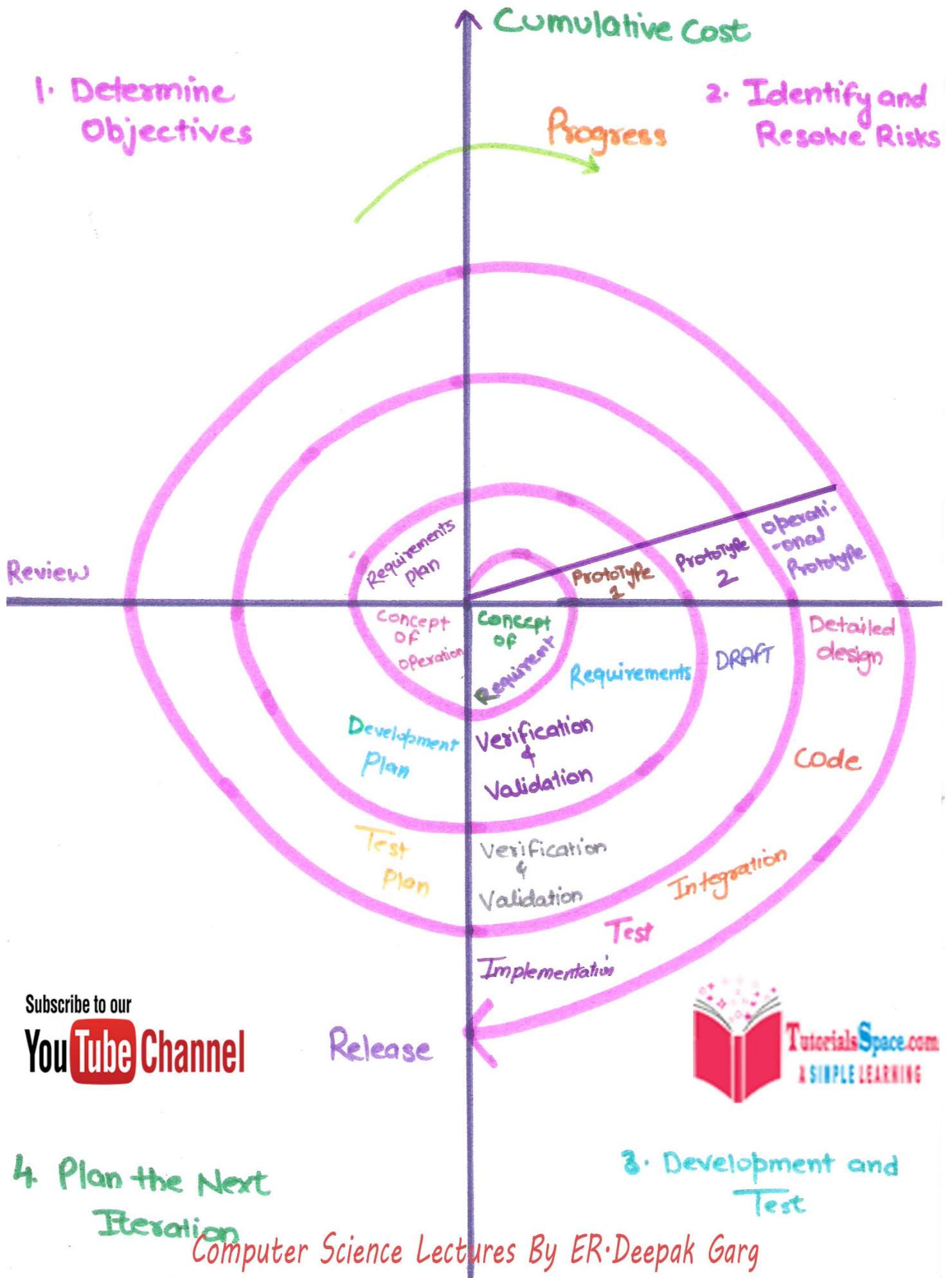
This Model considers **RISK**, which often goes **Un-noticed** by most other models.

Each Loop of the spiral Represents a phase of the Software process. And It has four Phases.

1.) **Determining Object OR Objective Setting OR Planning Object**

We Determine & Documented   
 • Objectives   
 • Alternatives   
 • Constraints } of PROJECT

A detailed Management plan is drawn up. Project **Risks** are identified.



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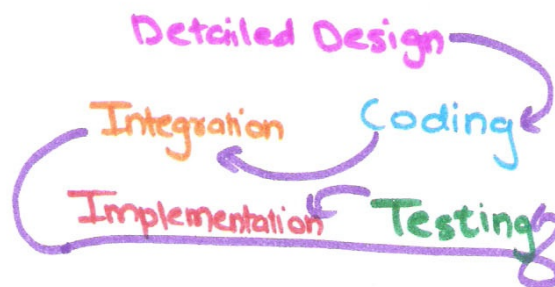
## 2) Identify and Resolve Risks OR Risk Assessment and Reduction OR Risk Analysis :-

This phase has been added specially in order to identify and Resolve all possible **RISKS** in project Development.

IF **RISKS** indicate any kind of **UNCERTAINTY** in requirements **PROTOTYPING** may be used to proceed with the available data and find out Solution in order to deal with the potential changes in the **Requirements**.

## 3) Development and Test OR Engineering OR Development and Validation :-

After Resolving the Identified Risk, the Actual Development of the project is carried out. In this



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## 4) Plan Next Iteration OR Planning OR Review and planning

The project is reviewed and decision made whether to Continue with a further loop of the spiral. If it is decided to Continue, Plans are **Drawn up for Next Phase of the PROJECT**.

**RISK Means Something that can GO WRONG**

Computer Science Lectures By ER Deepak Garg