



AGILE PROJECT MANAGEMENT

POST MID1 LECTURES

SOFTWARE DEVELOPMENT MODELS



There are numerous software development models



Lets name a few?



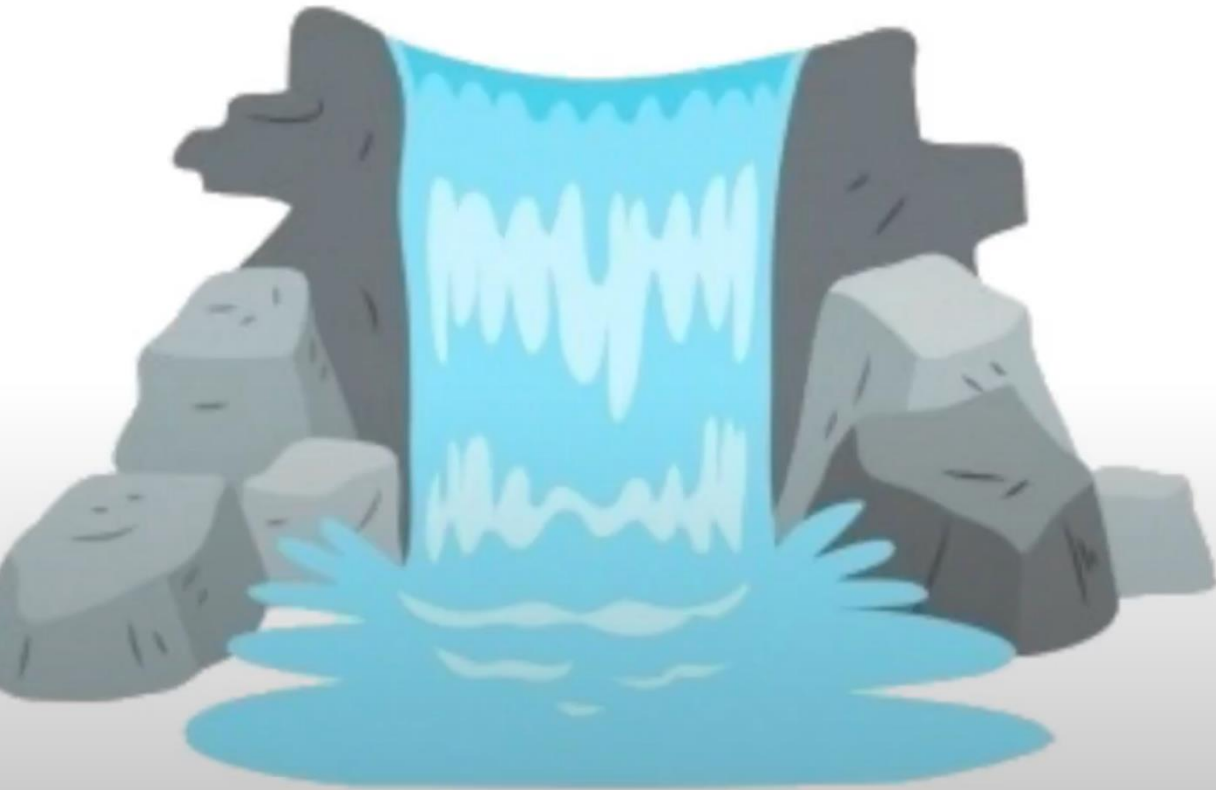
Choosing a software development model depends upon the nature or type of project



Deciding a software development model has a certain **OPPURTUNITY COST**



WATERFALL



REQUIREMENTS

SYSTEM DESIGN

IMPLEMENTATION

TESTING

DEPLOYMENT

MAINTAINANCE



WATERFALL

1. Step by step
2. Sequential model – That is It works in a sequence
3. Linear Model following top down approach, Just like its name suggests WaterFall
4. Next step won't start, unless current step got completed.
5. Very rigid
6. Changes couldn't be brought easily when required
7. Emphasis on following Processes and Tools
8. Extensive Documentation needed
9. Customer wont get to see the product unless the time of UAT.
- 10.Extensive Planning

WHEN TO USE WATERFALL?





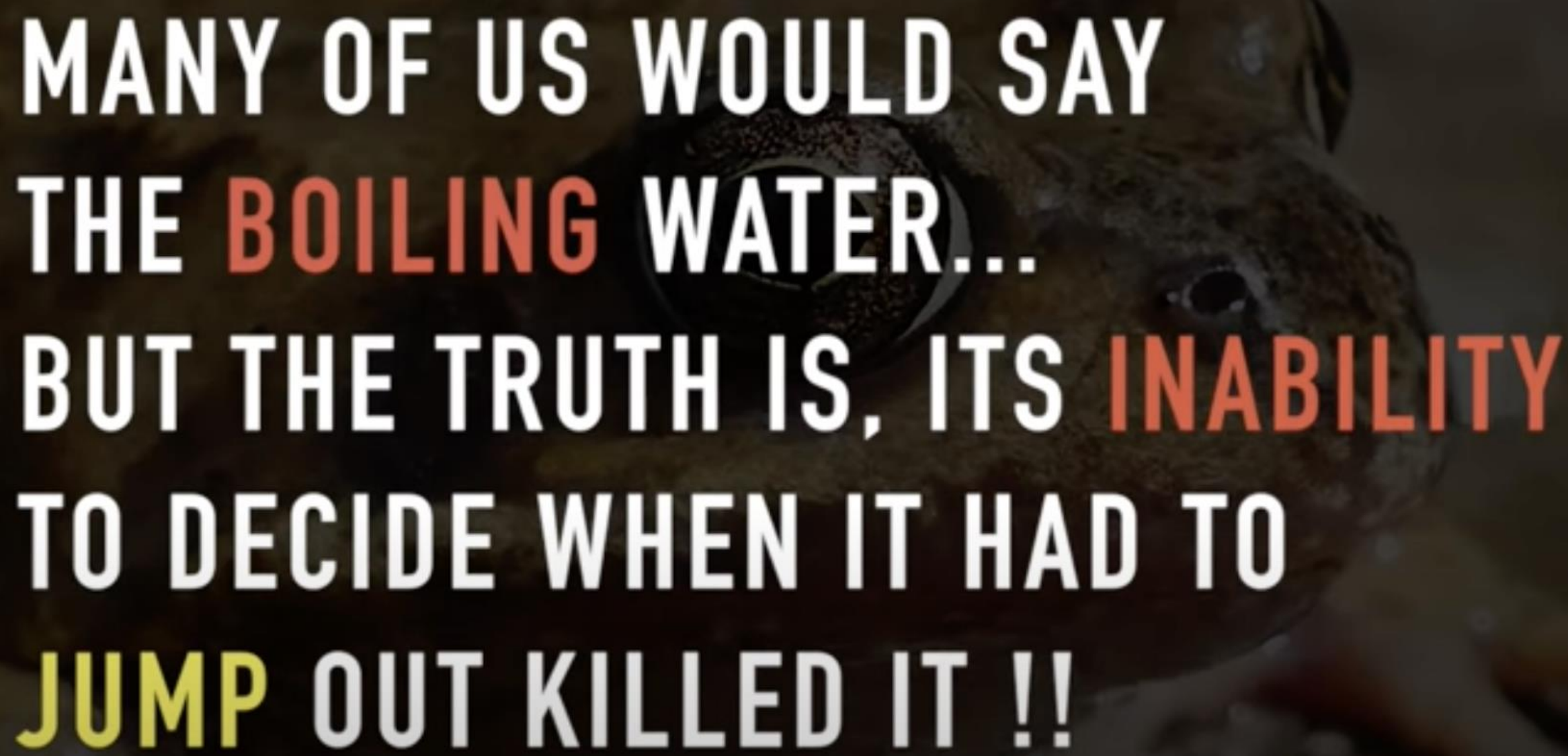
WHEN TO USE WATERFALL

Where can we use waterfall?

1. When the scope is fixed
 - No changes required
 - Because changes are costly
 - Need time
2. When customer involvement is least
3. Project is Relatively simple and you have done it many times before
4. Requirements are Static – Customers know well in advance what they want

A) THE BOILING FROG SYNDROME





MANY OF US WOULD SAY
THE **BOILING** WATER...
BUT THE TRUTH IS, ITS **INABILITY**
TO DECIDE WHEN IT HAD TO
JUMP OUT KILLED IT !!

The inability to
decide when
to jump out !

Boiling frog syndrome

Friend-relation

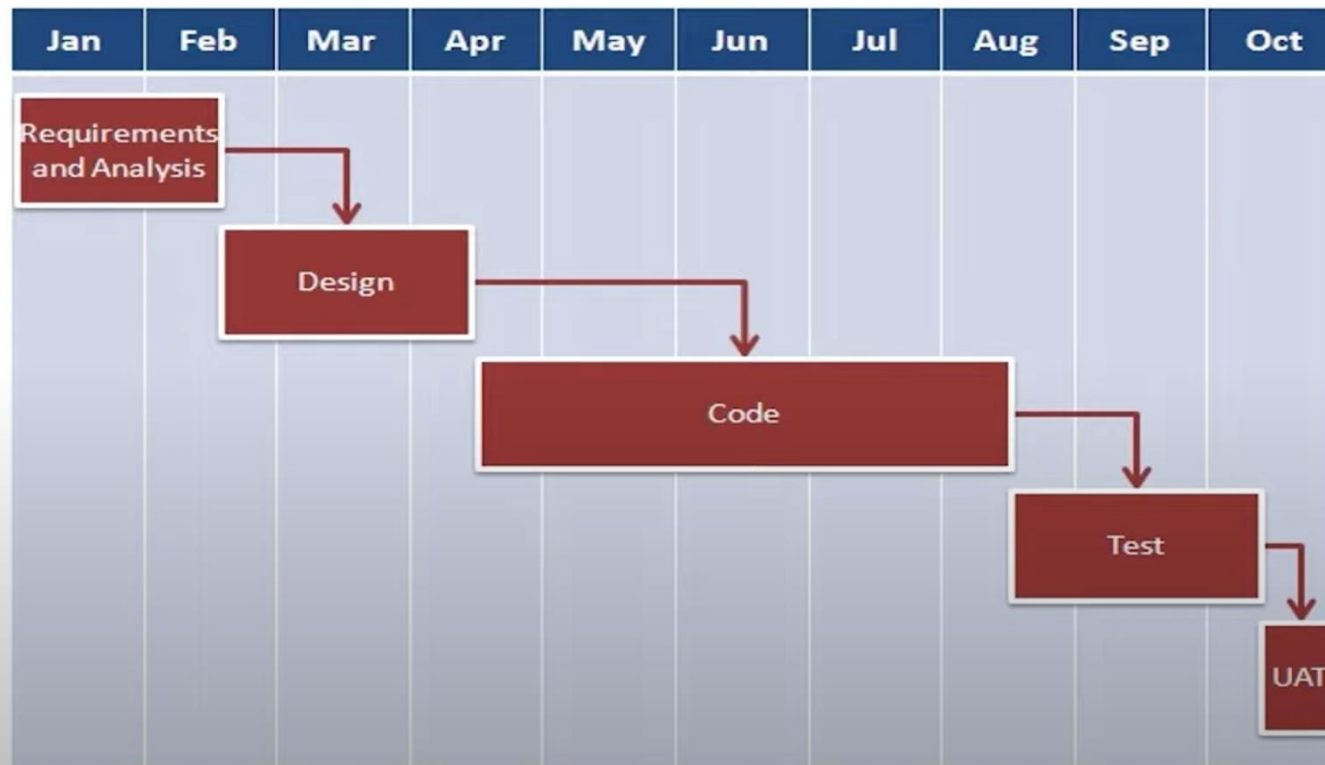
Global warming

Bad boss ?

Bad job?

Smoking

WATERFALL VS AGILE



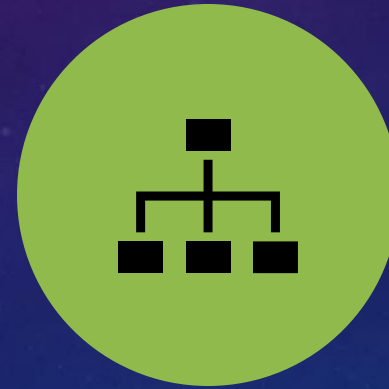
Agile project management



AGILE

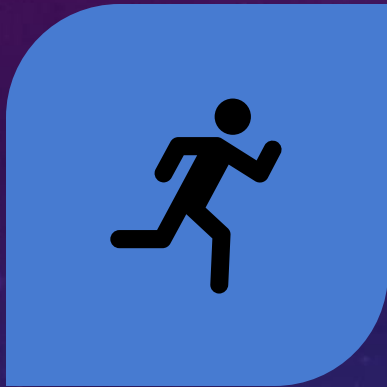


PROJECT



MANAGEMENT

What Agile is not?



AGILE

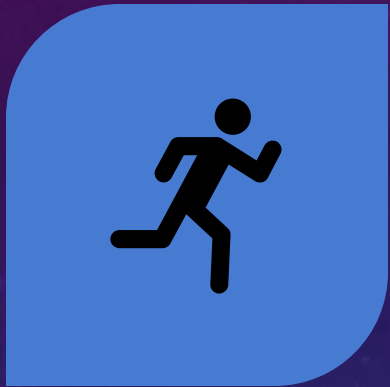


WHATS NOT AGILE



**WHAT PEOPLE
SAY?**

What Agile is not?



METHOD



FRAMEWORK



PARTICULAR WAY OF
DEVELOPING SOFTWARE



Agile

- What is Agile ?
- Dictionary Meaning ?
- Common Meaning?
- Meaning from Different Perspectives.

Agile

- The dictionary says Agile means – “Able to move quickly and easily”
- For example – He is Agile like a Cheetah !
- Agility means quickly adapting to changing situations.
- Being Flexible
- Agile doesn't make decisions for you
- It gives you a platform to make your own decisions and improve the process

AGILE IS A SET OF



Values



principles

AGILE MANIFESTO

- In 2001, 17 Developers, jot down a *manifesto* which they called “Agile Manifesto”.
- Manifesto means – Declaration, Announcement, Publication.
- Mid 17th century: from Italian, from manifestare, from Latin, ‘make public’.
- Agile Manifesto consists of 4 Core Values
- Agile Manifesto Consists of 12 Principles
- We will discuss these values and principles with examples one by one

What Agile Is NOT?



A Methodology



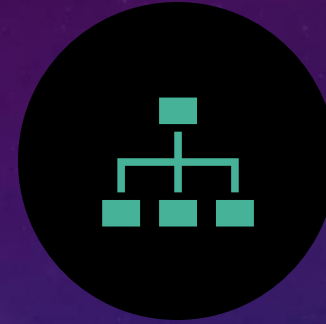
A Framework



A Process



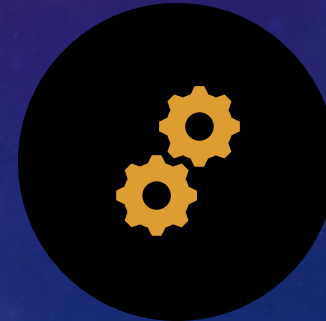
So, Agile is as Defined in the “Agile Manifesto” as set of Values and Principles that help develop a better software.



Agile is a set of “Beliefs” that teams can use to make “Decisions” and use “Practices” to Develop a software.



Agile Tells us Best Practices and its up to us to implement them



AGILE

Four Agile Values



Individuals & Interactions

Over Process and Tools



Working Software

Over Comprehensive Documentation



Customer Collaboration

Over Contract Negotiation



Responding to Change

Over following a plan