

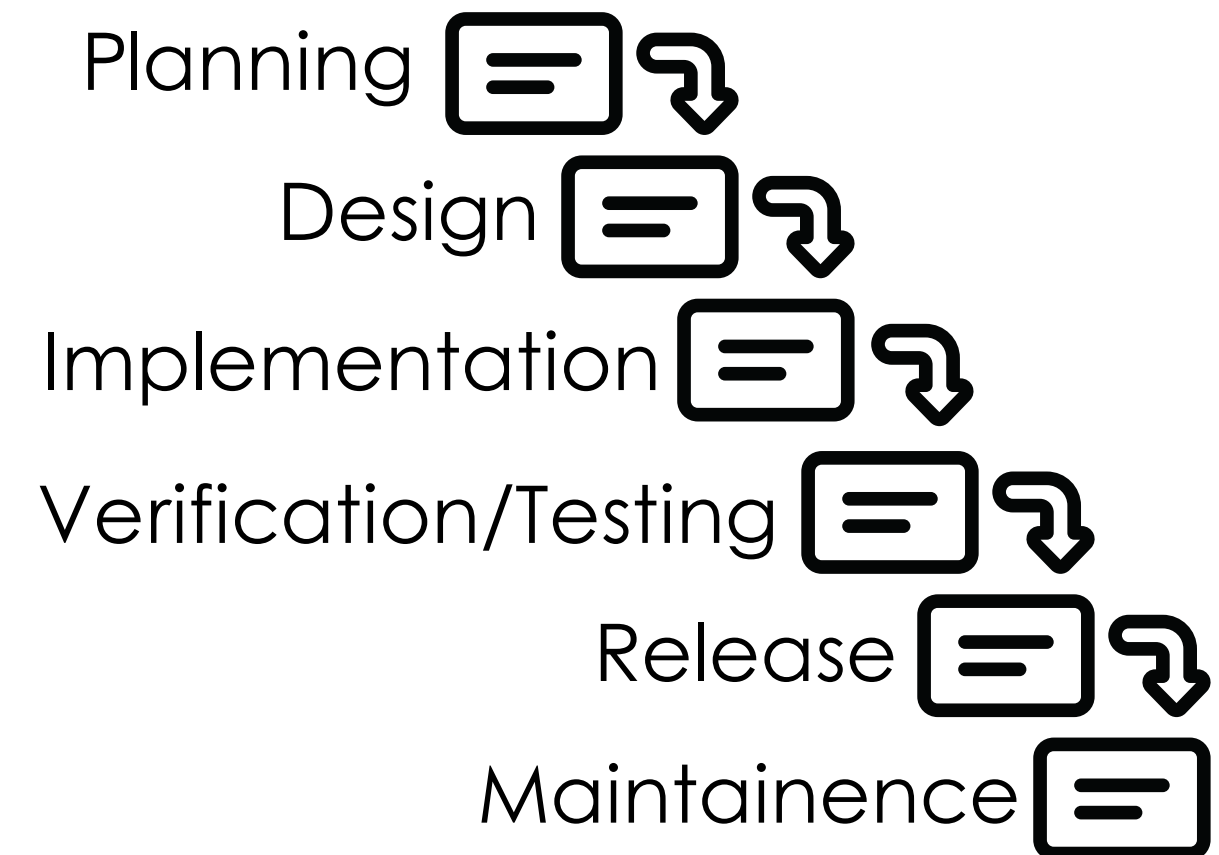
COMP 3550

**1.3 — AGILE VS. HEAVYWEIGHT
PROCESS MODELS**

Week 1: Software Development
Models & Agile Mindset

WATERFALL: THE CLASSIC HEAVYWEIGHT MODEL

Pros	Cons
Clear Structure	Changing Requirements is Challenging
Good for Contracts	Little if any Concurrent work



WHEN WATERFALL WORKS

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- Stable, well-understood projects
 - (e.g., avionics, banks)

It's not "bad," just situational

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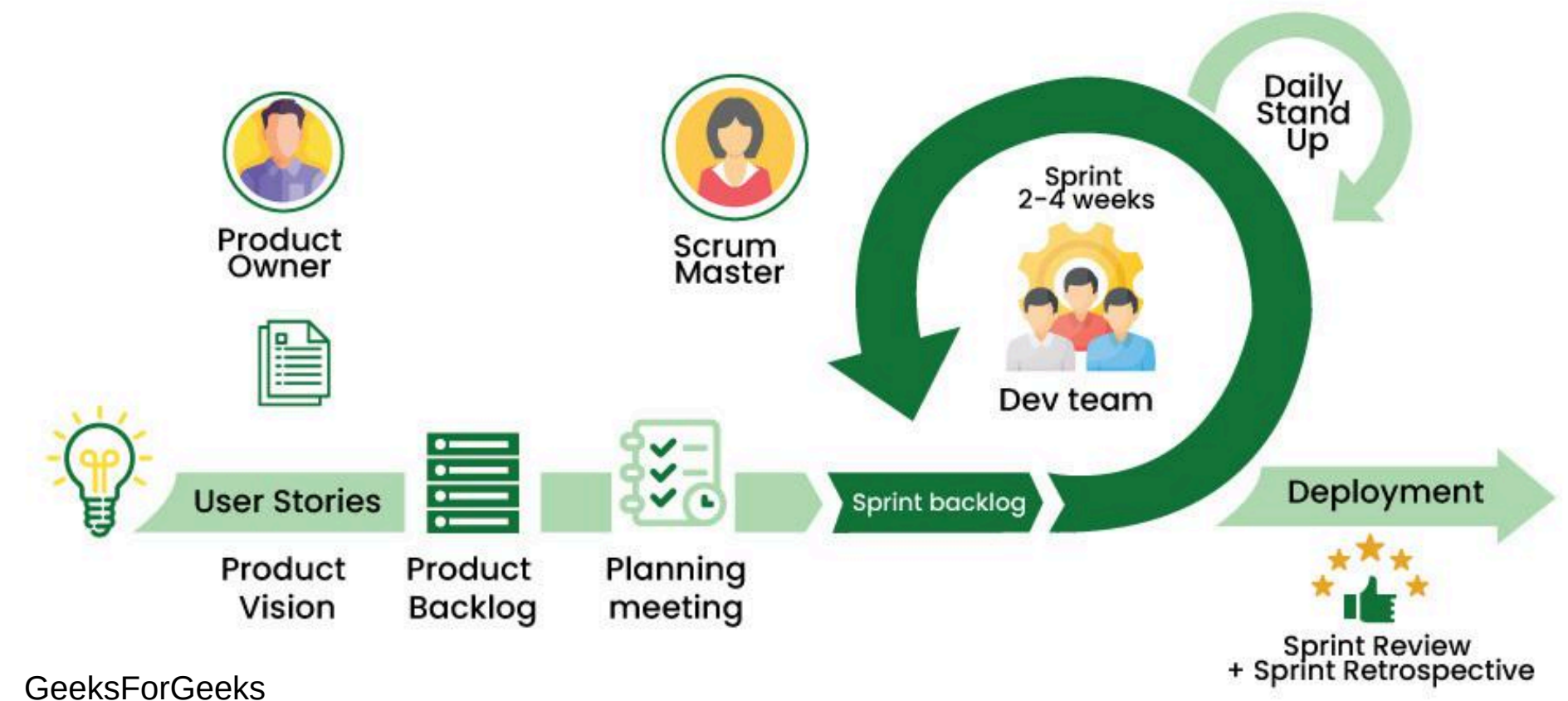
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Like most of this course...it depends!

WHAT IS A LIGHTWEIGHT PROCESS?

Pros	Cons
Favours Flexibility and Team Autonomy	Can be Expensive
Short Feedback Cycles	LOTS of Meetings



SPECTRUM OF APPROACHES

Just to name a few

Rigid

Loosey Goosey

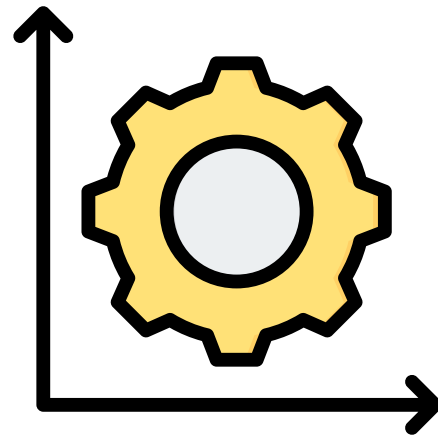


THE PROCESS SPECTRUM IN PRACTICE

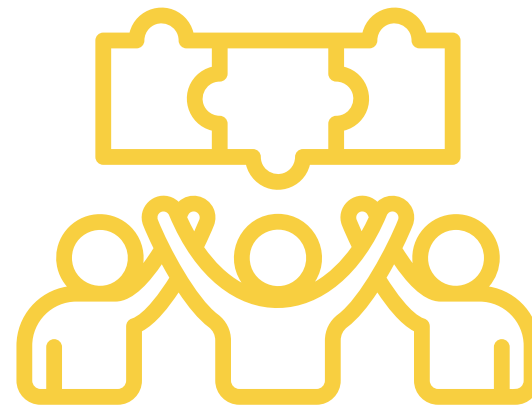
How do we pick a process?

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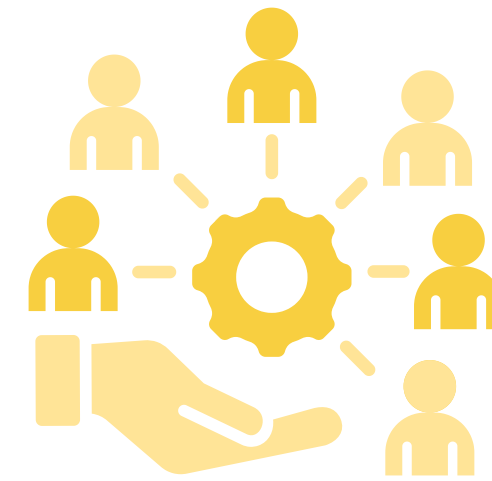
How do we pick a process?



Project Size



Team Dynamics/Maturity



Stakeholder
Needs/Requirements

PAUSE & REFLECT

Thinking about the last school project/assignment you worked on:

Would you prefer clear step-by-step structure or flexible changeable plans? Why?