


System development life-cycle Analysis

Petr Svarny, 2020



From just programming to good programming.

Analysis,
Design,
Tests,
Style.

Goal of the analysis

Understand the problem at hand

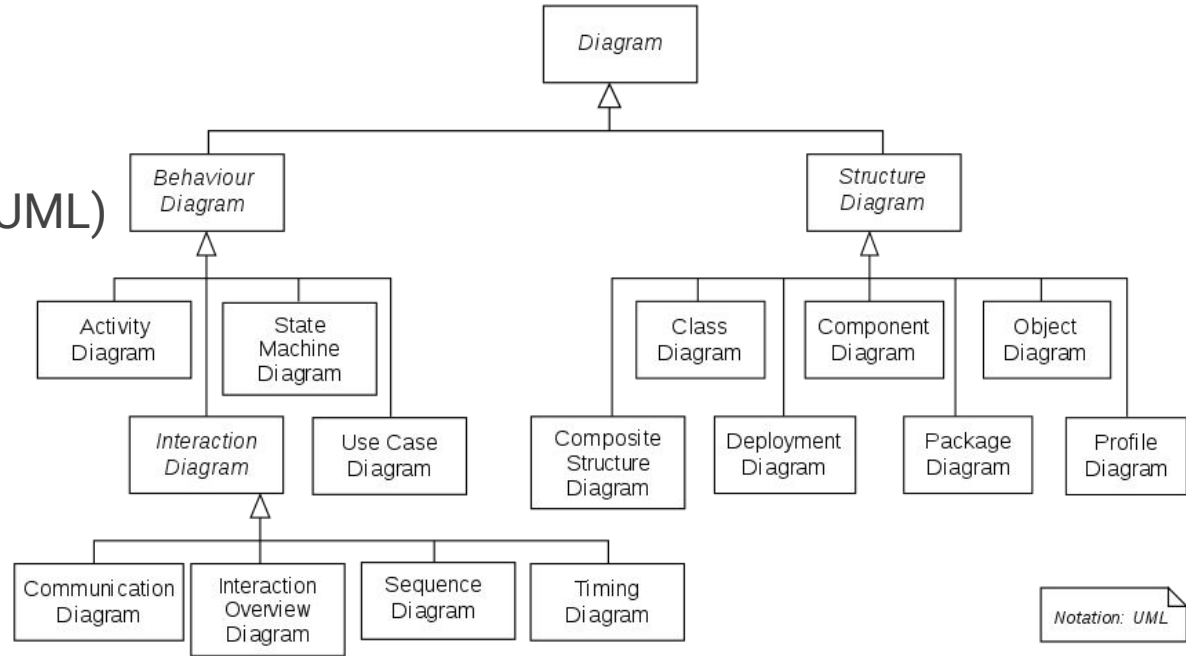
Model it clearly for design



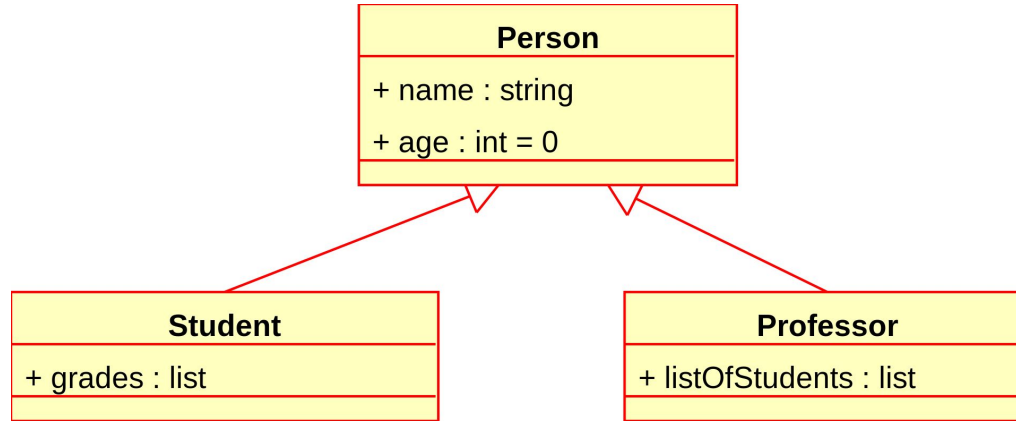
Modeling tools

Unified Modeling Language (UML)

And others (BPMN, ...)



Example Class diagram



Basic analysis approaches

Top-down

- From general idea to particulars

Bottom-up

- Start on particulars and join them together



Postulate, test, simulate

If the system is unknown,

- you need to postulate a hypothesis,
- test it,
- possibly simulate the system,
- repeat.

