

# Object Oriented Programming

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# What?

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- The Object Oriented paradigm is the de facto standard for industrial software engineering
- **OOP followed Procedural Programming due to serious limitations affecting large-scale projects**

# Why?

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- Building applications for both desktop and mobile platforms **frequently** requires an OO language such as Java, C++, C#, Python...

# How?

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- Java 8
  - <https://java.com/en/download/>
- Java 8 Documentation
  - <https://docs.oracle.com/javase/8/docs/api/>
- IDE for Java
  - <https://www.eclipse.org/>
  - <https://www.jetbrains.com/idea/>
- Course Material
  - <https://github.com/nbicocchi>

# When?

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- **On Wednesdays (9 – 11, FA-OC),** we will introduce new topics
- **On Thursday (16 – 19, FA-2F),** we will have a 30 minutes recap of recent topics and 2h of lab exercises
- **On Wednesday (11 – 13, I Floor MO27),** I will be available for discussions about the projects and course topics

# Exam?

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- Yes, there will be a final examination
- **Oral examination** about OOP and the Java language (short written exercises might be used)
- Discussion about the structure, the internals and engineering choices of an **home project written in Java (1000-5000 lines of code)**