

Object Oriented Programming

Università di Modena e Reggio Emilia

Prof. Nicola Bicocchi (nicola.bicocchi@unimore.it)



What?

- 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?

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

How?

- Java SE 12
 - <https://www.oracle.com/technetwork/java/javase/downloads/index.html>
- Java SE 12 Documentation
 - <https://docs.oracle.com/en/java/javase/12/docs/api/index.html>
- IDE for Java
 - <https://www.eclipse.org/>
 - <https://www.jetbrains.com/idea/>
- Course Material
 - <https://github.com/nbicocchi>

When?

- **On Thursday (13 – 15, FA-1E)**, we will introduce new topics
- **On Friday (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?

- **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 a **home project written in Java (1000-5000 source lines of code)**