Object-Oriented Programming in Java

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Lessons & Labs

- One plenary lesson (today!)
 - Labs organization
 - Evaluations
 - Outline
 - Java basics

- \approx 10 labs
 - $\bullet \ \, \text{Introduce a (few) new concept(s)} \Rightarrow \text{practice them}$

A final mini-project (Game)



Evaluations

- At the **beginning** of each Lab
 - You pass a MCQ @MOOTSE

- At the end of each Lab
 - You submit your work @GitLab/GitHub

- Final grade
 - MCQs = 40%
 - Labs = 60%



Outline

- TD00 Intro + Getting Started
- 2 TD01 Files + Exceptions
- TD02 POJOs + Strings + Wrappers
- TD03 OOP: Encapsulation + Inheritance + Polymorphism
- TD04 Collections
- TD05 Java8: Lambdas, Streams
- TD06 (Data Structures) Graphs
- TD07 (Data Base) JDBC
- TD08 (GUI) Swing
- TD09 (Algorithms) ConvexHull
- TD10-TD11 Mini-project [Multi-Threading, Introspection]

