Eclipse for Java Developers

SETTING UP A JAVA SE DEVELOPMENT ENVIRONMENT WITH ECLIPSE

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The Java IDE Offer

NetBeans

eclipse

IJ

Given by Oracle to the
Apache Foundation
Free, Open source

Flagship of the
Eclipse Foundation
Free, Open source

Developed by JetBrains

Free, Open source
Community Edition

Ultimate Edition

This is a course about a Java IDE

Mostly live, step by step demos

Fair knowledge of the Java language

How is a Java application organized
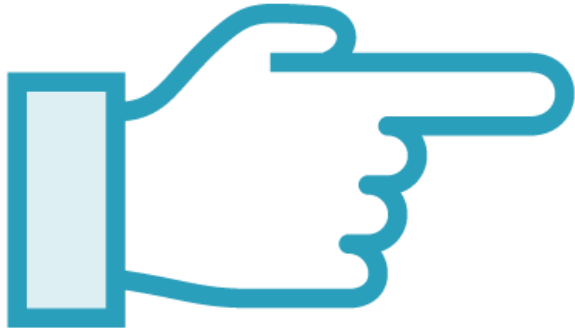
JVM / Bytecode

JDK / JRE

Java SE / Java EE

Agenda

Setting up Eclipse to write Java code:

- The Java environment

- Having Maven handling a Java project

- Git support, connecting to Git remote repositories

- Connecting Eclipse to databases

- Setting up Eclipse to write Java EE applications

The Eclipse Guided Tour by Tod Gentille

Maven Fundamentals by Bryan Hansen

Several Git courses by Paolo Perrotta

Java EE: The Big Picture by Antonio Goncalves

Eclipse IDE Key Concepts

Eclipse is a software written in Java

So it needs Java to be installed somewhere

The Java of your OS is chosen by default

It can be overridden

Eclipse defines the notion of workspace

There can be several workspaces

One instance of Eclipse works in a single workspace

A workspace can handle several projects

One workspace = one folder

One project = one subfolder in a workspace

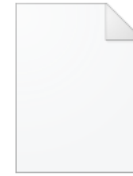# Eclipse Workspace Folder

Workspace

.metadata

version.ini

.log

.lock

Eclipse Workspace Folder

Workspace

.metadata

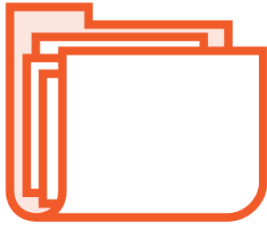version.ini

.log

.lock

Project 1

Project 2

Project 3

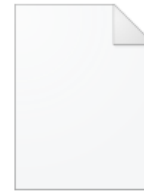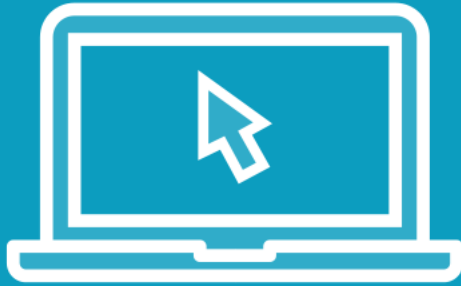Project 4

Eclipse Project Folder

Project 1

.settings

.classpath

.project

Demo

Let us launch Eclipse!

... and make it crash...

And set up Java projects in it

Module Wrap Up

What did you learn?

Finding your way in the Eclipse GUI

Setting up several things:

- a Java environment to launch Eclipse

- several Java projects

- dependencies

- generate a JAR