

THE TOPICS

- Git
- Java Platform
- Platform components
 - ✓ JRE and JDK
- Java Applications
- Ediciones Java
 - ✓ JSE
 - ✓ JEE
 - ✓ JME

GIT

- Version Control Systems record changes to files or sets of files

<https://code.snipcademy.com/code/img/tutorials/git/introduction/cvs.svg>

- GIT is a Distributed Version Control System.

<https://homes.cs.washington.edu/~mernst/advice/version-control-fig3.png>

- All of this data that is important to GIT is stored in a data structure called a **Repository**

<https://uidaholib.github.io/get-git/images/workflow.png>

- This allows programmers to track, manage and collaborate on applications

<https://marcgg.com/assets/blog/git-flow-bundling.jpg> <https://marcgg.com/assets/blog/git-flow-before.jpg>

GIT Exercise

1. Install git and sign up for Github
2. Set Global User configs
3. Make a new directory and initialize the git repo
4. Add a new file
5. Add the new file to the staging environment
6. Commit the staged changes
7. Connect to remote repo and push your changes
8. Create a new branch

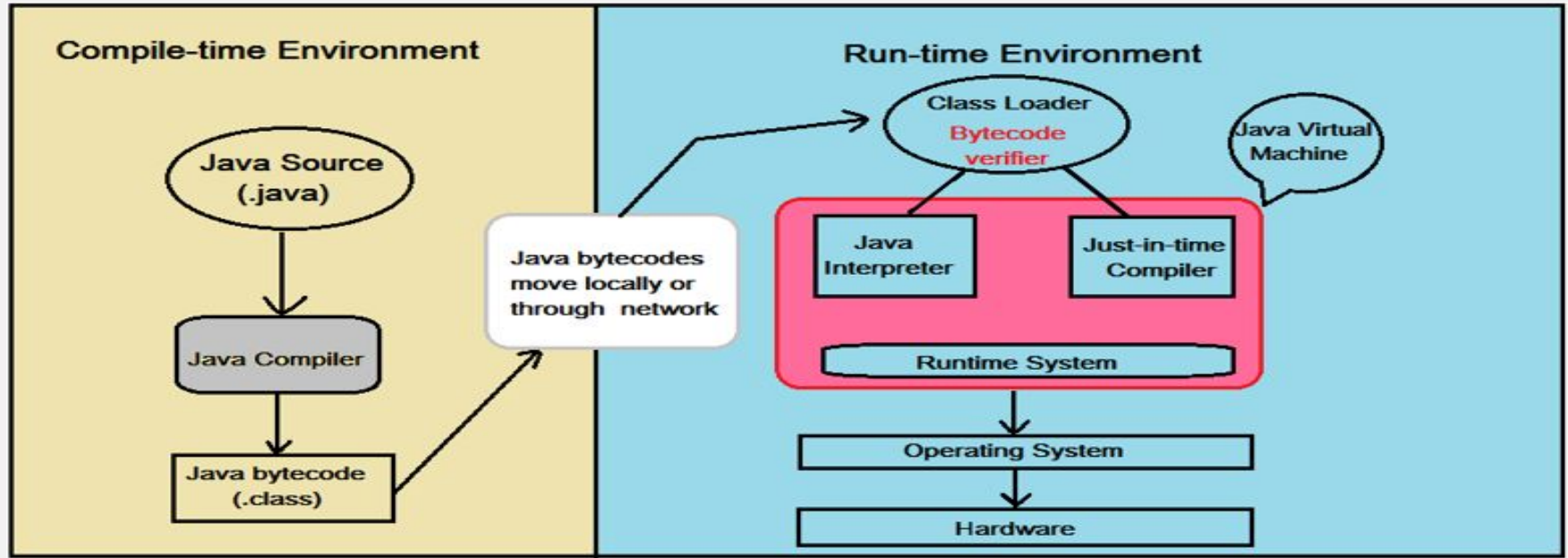
JAVA PLATFORM

- Java is one more layer of abstraction that is supported by the OS.
 - ✓ Applications run on the JAVA platform on top of the OS
WINDOWS, LINUX, MAC OS, SOLARIS, ETC.
- *Write once, run everywhere*

HOW DO I TRANSLATE THE CODE?

- Being a high level language it requires a method of translation.
- It has two instances of translation
 - ✓ Compilation: Where we go from source code to object code (bytecode)
 - ✓ Interpretation: Where we understand bytecodes and is translated to machine code that runs directly.
 - ✓ Java is **compiled** and **interpreted**.

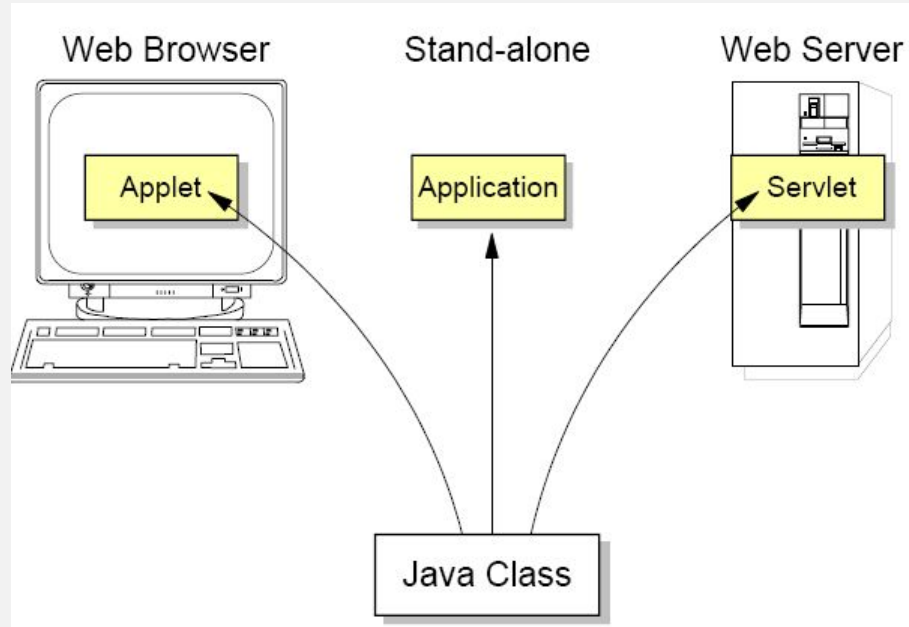
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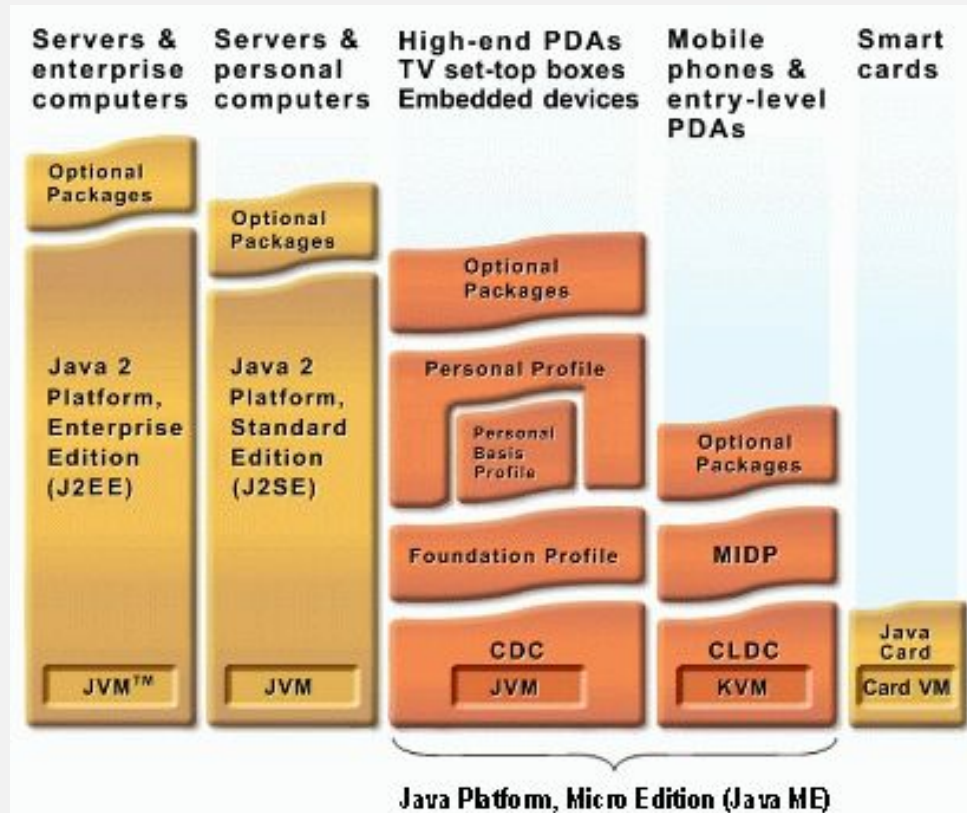
JAVA PLATFORM

- Why do we talk about Java as a platform?
 - ✓ Programming language
 - ✓ Runtime environment
 - ✓ Component Library
 - ✓ It provides us with modules and components already programmed.
 - ✓ Tools
 - ✓ Packaging, documenting, etc.
 - ✓ Compiler

MULTI-ENVIRONMENT



JAVA EDITIONS



Install

1. Download JDK and configure
2. Download IntelliJ community edition

THE END

QUESTIONS?