Java Fundamentals: The Java Language

What to Expect in This Course

Strong foundation in the Java language | Hands-on | Java syntax, constructs, concepts, and usage

Language skills to work effectively in any Java-based environment
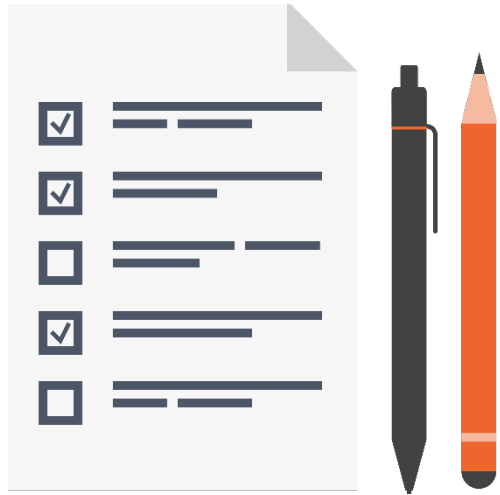
Java SE   Java EE   JavaFX   Java ME   Android

What to Expect in This Module
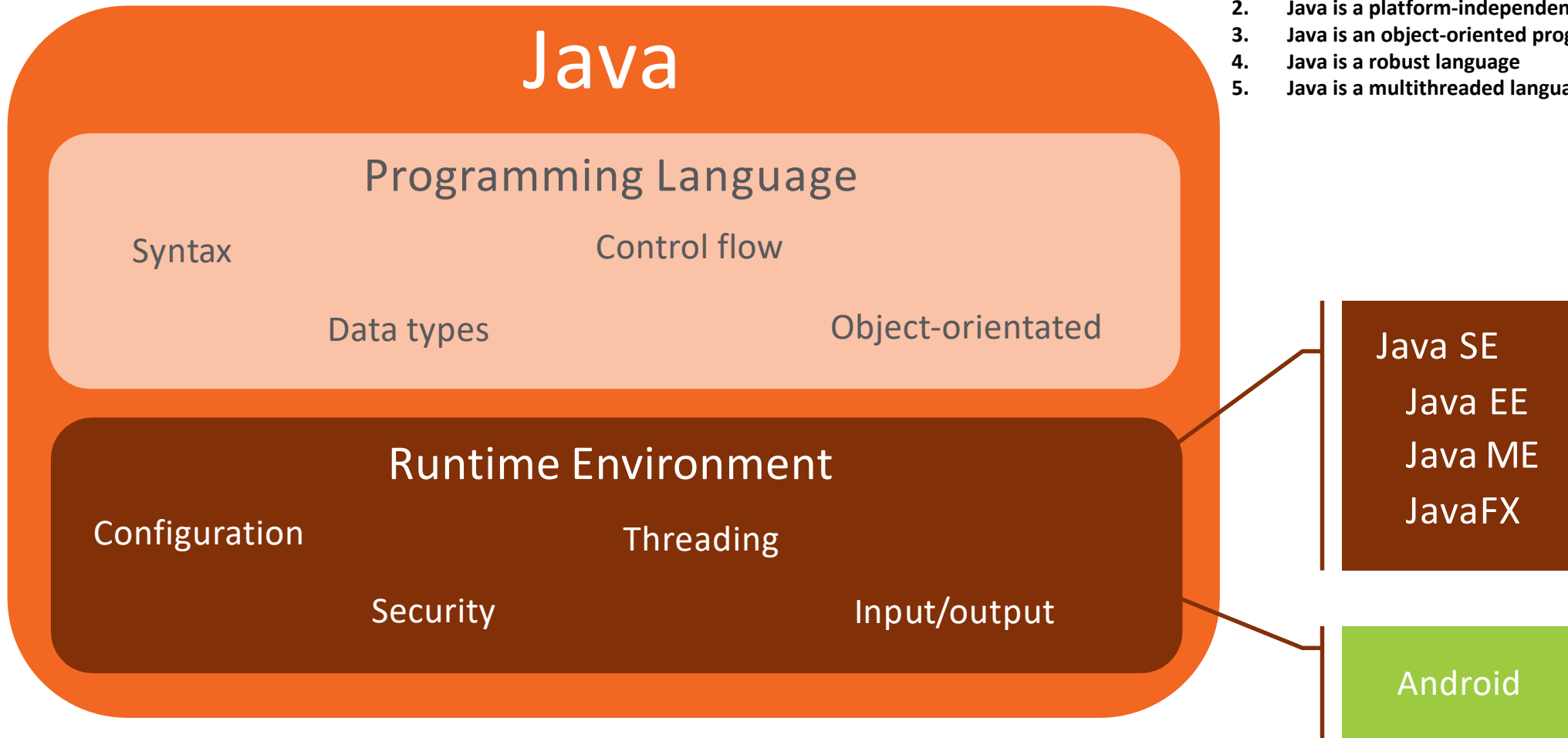
Brief Java overview

JRE vs. JDK

Setting up your environment

Choosing a Java IDE

What Is Java?

Java

Programming Language

Syntax

Control flow

Data types

Object-orientated

Runtime Environment

Configuration

Threading

Security

Input/output

1. **Java is a simple language**
2. **Java is a platform-independent language**
3. **Java is an object-oriented programming language**
4. **Java is a robust language**
5. **Java is a multithreaded language**

Java SE
Java EE
Java ME
JavaFX

Android

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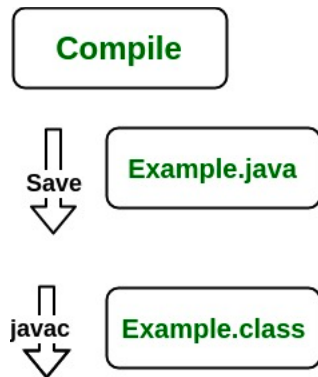Configuration

Threading

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This course!

Java Fundamentals:
The Java Environment
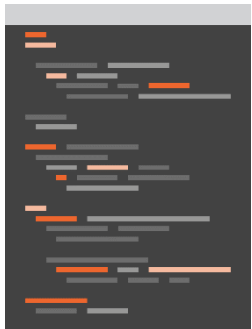
JRE vs. JDK

Java Runtime Environment (JRE)

- Required to run Java apps
- End-users normally require only the JRE

```
   Compile

 ⬇
Save    Example.java

 ⬇
javac   Example.class
```

Java Development Kit (JDK)

- Provides tools required to create Java apps
- Developers normally require the JDK
- JDK installation includes JRE

Java™

Creating and Running Java Apps

xyz.java

Java Development Kit
Tools

Java App
(platform-independent byte codes)

Java Runtime Environment

Host Environment
(Windows / Linux / Mac / Browser / Android)