Setting up a Java Development Environment

INSTALLING AND RUNNING JAVA

Sander Mak
DIRECTOR OF TECHNOLOGY @ PICNIC

@Sander_Mak

Course Overview

Course Overview

Installing and Running Java

Course Overview

Installing and Running Java

Using IntelliJ for Development

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Installing and Running Java

Using IntelliJ for Development

Packaging Java Applications

Goal

Goal

Install tools to write
and run Java code

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Install tools to write
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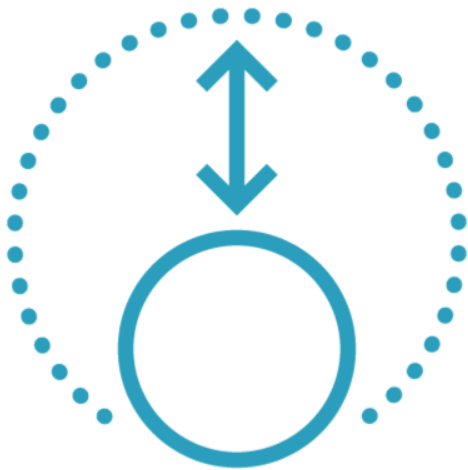**J**ava **D**evelopment **K**it

Goal

Install tools to write
and run Java code

Java **D**evelopment **K**it

Integrated **D**evelopment **E**nvironment
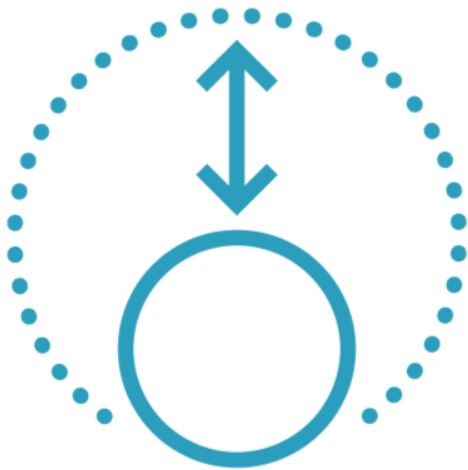
What's Not Our Goal?

What's Not Our Goal?

Understand everything

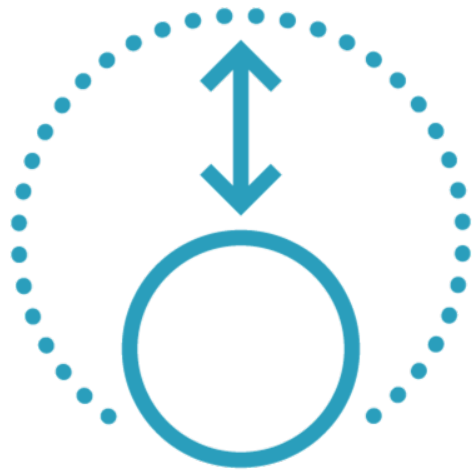# What's Not Our Goal?

Understand everything   Explain syntax

What's Not Our Goal?
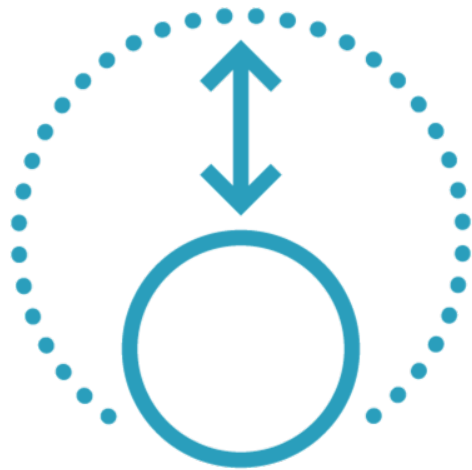
Understand everything   Explain syntax   Survey all options

What's Not Our Goal?

Understand everything

Explain syntax

Survey all options

Modern Java: the Big Picture

Writing and Running Java Code

Writing and Running Java Code

Hello.java

```
public class Hello {

    public static void main(String[] args) {

        System.out.println(

            "Hello Pluralsight!");

    }


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Hello.class

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Java Standard Edition (SE) APIs

Java Virtual Machine (JVM)

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Java Standard Edition (SE) APIs

Java Virtual Machine (JVM)

java   javac   **JDK**

Java Enterprise Edition

Java Standard Edition (SE) APIs

Java Virtual Machine (JVM)

Java Enterprise Edition

Java Enterprise Edition (EE) APIs

Java Standard Edition (SE) APIs

Java Virtual Machine (JVM)

Java Enterprise Edition

Enterprise Java Application

Java Enterprise Edition (EE) APIs

Java Standard Edition (SE) APIs

Java Virtual Machine (JVM)

Java Enterprise Edition

Jakarta EE - Eclipse Foundation

JAKARTA EE

About Membership Connect Resources ▾ Compatible Products 🔍 ▾ ⬇ Releases

Jakarta EE

Open Source Cloud Native Java

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https://jakarta.ee

Enterprise Java Application

Java Enterprise Edition (EE) APIs

Java Standard Edition (SE) APIs

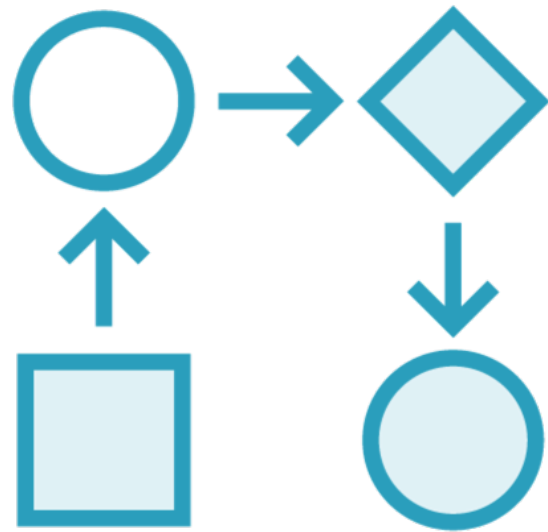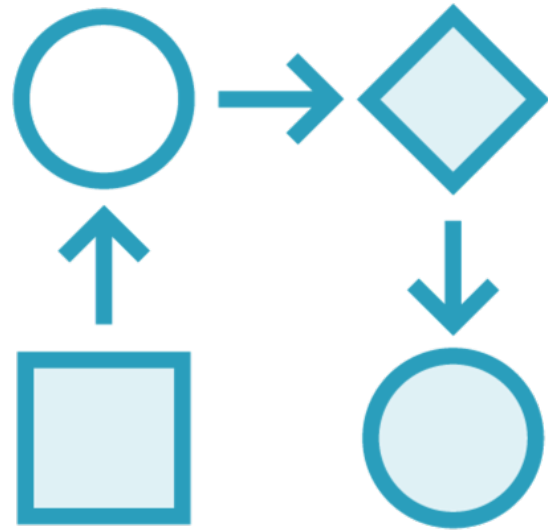**Java Virtual Machine (JVM)**

Demo

Installing the JDK

Demo

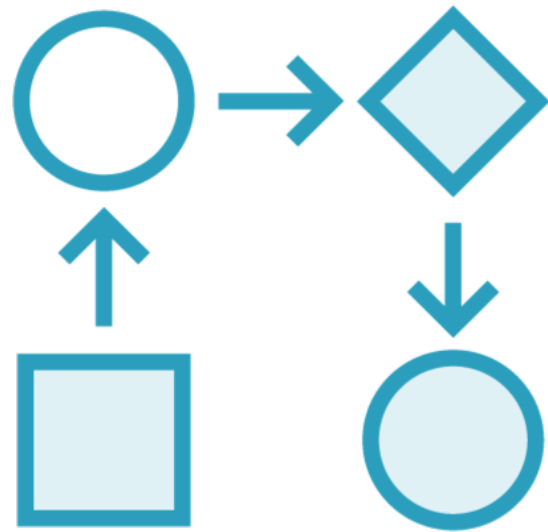Installing the JDK

What We're Going to Do

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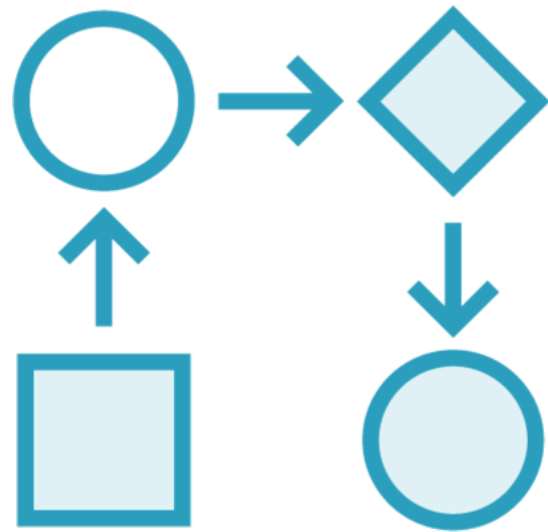
Download latest JDK

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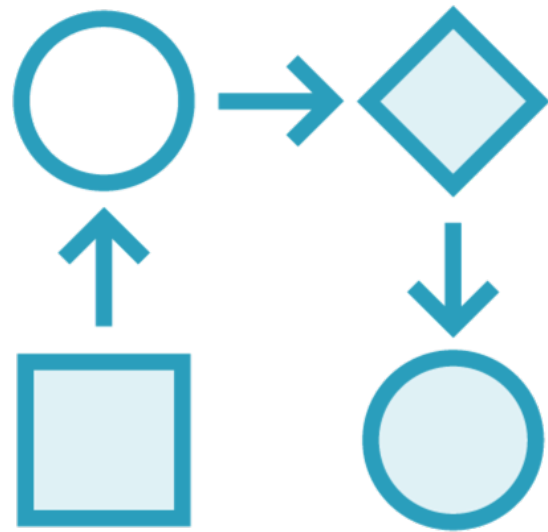**Setup JAVA_HOME variable**

What We're Going to Do

Download latest JDK

Setup JAVA_HOME variable

Update PATH variable

What We're Going to Do

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Setup JAVA_HOME variable

Update PATH variable

Verify correct installation

Follow Along

Follow Along

Download latest JDK

jdk.java.net

Other Platforms

Other Platforms

macOS

/Library/Java/JavaVirtualMachines/

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macOS

/Library/Java/JavaVirtualMachines/

Using Homebrew:

```
brew tap homebrew/cask-versions
brew cask install java
```

Other Platforms

Linux

/opt

Other Platforms

Linux

/opt

On Ubuntu:

```
apt update
apt install openjdk-13-jdk
update-alternatives --config java
```

Demo

Compiling and Running Java Code

Demo

Compiling and Running Java Code

Summary

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Goal: up & running quickly

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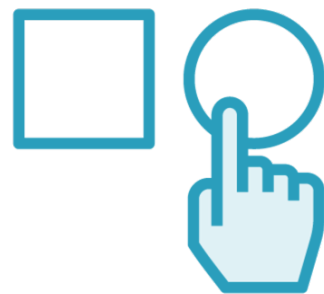
Goal: up & running quickly

Install Java SE JDK

Summary

Goal: up & running quickly

Install Java SE JDK

Use `javac` and `java`