Building Java and Kotlin Projects

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Overview

Java plugins

Tasks added

Library vs. application

Kotlin plugin

Creating a Build

Create a 'build' file

Add the appropriate plugin(s)

Override tasks and properties

Java Plugin

```
plugins { java }

plugins { java-library }

plugins { application }
```

Java Plugins
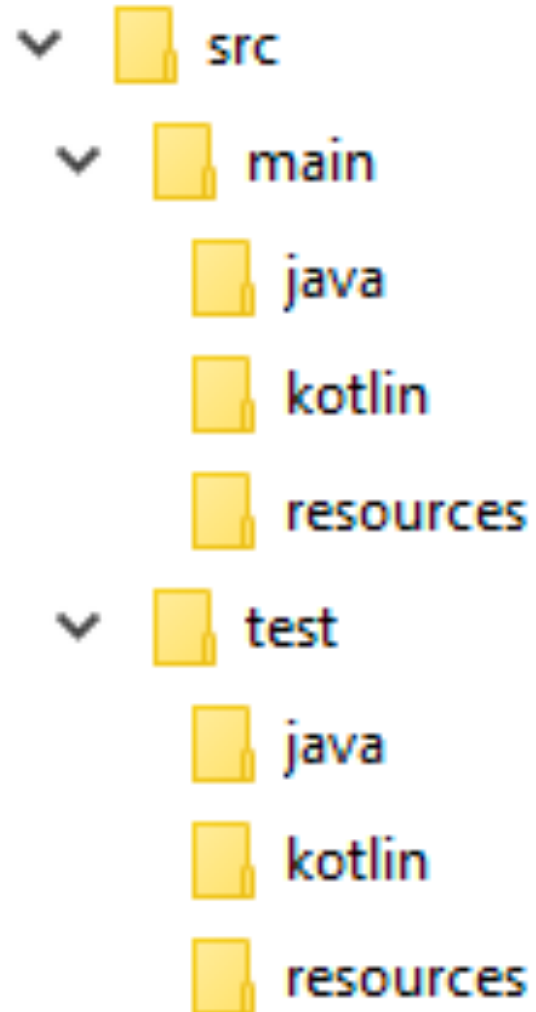
Expect to find source code in standard locations

Can change this using SourceSets

Standard Code Layout

- 📁 src
  - 📁 main
    - 📁 java
    - 📁 kotlin
    - 📁 resources
  - 📁 test
    - 📁 java
    - 📁 kotlin
    - 📁 resources

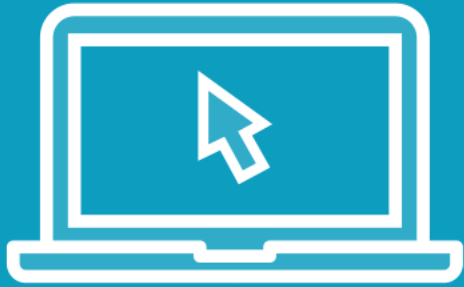# Configure the Structure

```groovy
// Groovy DSL

sourceSets {

    main {

        java {

            srcDir 'src/java'

        }

        resources {

            srcDir 'src/resources'

        }

    }

}
```

Demo

Source Sets

Configure the Kotlin Plugin

Add the plugin

Configure the target JVM version

Kotlin Plugin

```kotlin
// kotlin DSL

plugins {

  kotlin("jvm") version "1.3.70"

}
```

Kotlin Plugin (cont.)

```
tasks {

  compileKotlin {

    kotlinOptions.jvmTarget = "1.8"

  }

  compileTestKotlin {

    kotlinOptions.jvmTarget = "1.8"

  }

}
```

Review

Java plugins

Tasks added

Library vs. application

Kotlin plugin

What's Next?