

Building a Java Project



Kevin Jones

@kevinrjones

Java Plugin

```
apply plugin 'java'
```

Adds Many Tasks

- build
- clean
- javadoc

Supports Standard Layout

- `src/main/java`
- `src/main/resources`
- `src/test/java`
- `src/test/resources`

SourceSets

- If you have a different convention
 - can configure the layout using a source set

Configure the Layout

```
sourceSets {  
    main {  
        java {  
            srcDir 'src/java'  
        }  
        resources {  
            srcDir 'src/resources'  
        }  
    }  
}
```

Basic Single Project Build

- build.gradle file
 - add the Java plugin
- Create source directories and add sources

Multi-project Builds

- Add top level settings.gradle
 - List of all the projects in the build

Multi-project Builds

- Add top level build.gradle
 - defines project wide build functionality
 - defines dependencies

Gradle Build From Scratch

- Start with an existing Java project
 - Simple existing application
 - Has a non-gradle structure so ...
 - ... will need source sets
 - basic dependency management
 - basic testing