Let Gradle
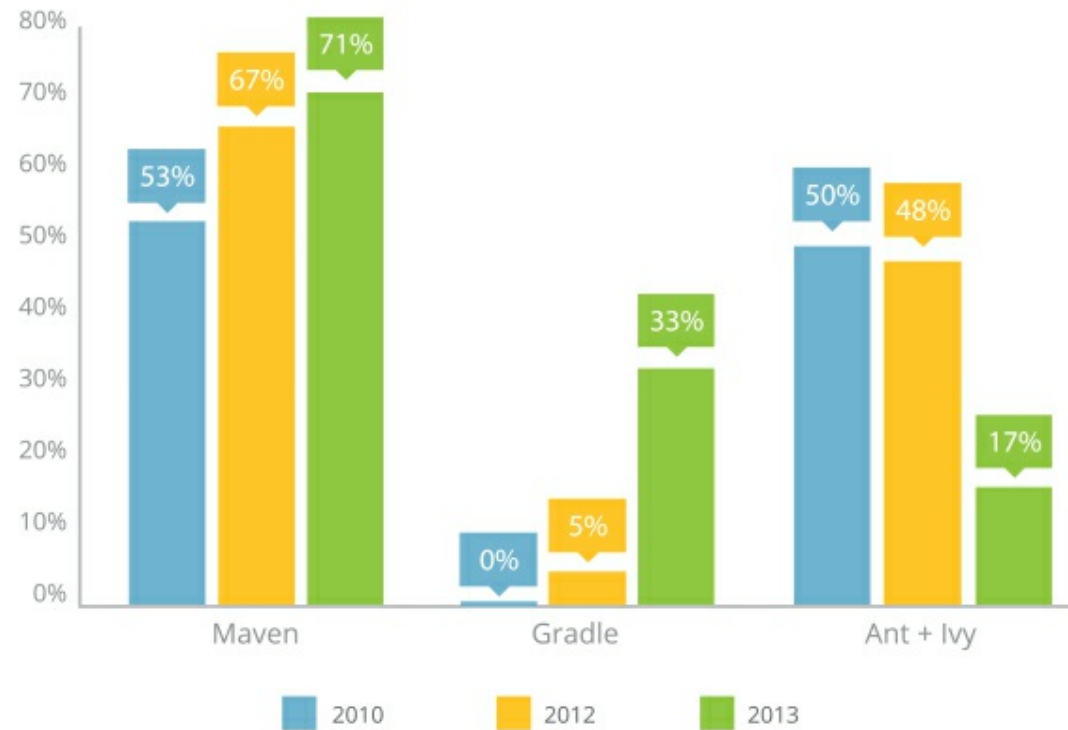# Build your Java (web)apps

Morten Weel Johnsen @mwjohnse

Arrested for using Maven...

Build Tools Popularity - Late 2010 to Mid 2013

Maven: 53% (2010), 67% (2012), 71% (2013)
Gradle: 0% (2010), 5% (2012), 33% (2013)
Ant + Ivy: 50% (2010), 48% (2012), 17% (2013)

Legend: 2010, 2012, 2013

REBELLABS

Source: ZeroTurnaround

Why choose Gradle over Maven

- DSL instead of XML
- Gradle Wrapper
- Documentation awesome with Gradle
- Gradle Daemon for faster builds
- Both uses maven repository
- No boilerplate

Gradle structure

```
conversation application/
└── build.gradle      # Contains build script
└── gradlew           # Downloads gradle
└── wrapper
    ├── gradle-wrapper.jar
    └── gradle-wrapper.properties
```

Minimal Gradle #1

```
# empty build.gradle
```

Minimal Gradle #2

```
# build.gradle

apply plugin:'java'
apply plugin: 'jetty'

group = 'org.springframework.samples'
version = '1.0.0-SNAPSHOT'

description = "petclinic"

sourceCompatibility = 1.7
targetCompatibility = 1.7

repositories {

    maven { url "http://repo.maven.apache.org/maven2" }
}
```

Gradle Wrapper

Minimal wrapper to download and use specified Gradle version.

```
./gradlew tasks  # Downloads gradle and runs command to show tasks
```

Custom Gradle tasks

Minimal wrapper to download and use specified Gradle version.

Apply magic

```
# Add to gradle.properties in folder ~/.gradle

org.gradle.daemon=true
```

Get started from terminal

```
$ ./gradlew tasks    # Lists all tasks available

$ ./gradlew jettyRun    # Builds and run on jetty

$ ./gradlew jettyRunWar  # Builds and run war on jetty

$ ./gradlew build
```

"I've known people who have not mastered their tools who are good programmers, but not a tool master who remained a mediocre programmer." – Kent Beck

Questions?