

# Android

# Você

- Experiência
- Experiência com mobile?
- UX?

# Curso Android

- Metodologia
- Duração

# Novos paradigmas

- Web x Mobile x Desktop
- Clicks?
- Client-side / Server-side
- A palavra do ano: Apps



# Comparando Plataformas

Operating System	Programming Language	Development Environment
Android	Java	Eclipse with Android Developer Tools (ADT)
iOS	Objective-C	Xcode
Windows Phone and Store	XAML and C#	Visual Studio

# Comparando Plataformas

- Não existe mágica
- App 100% nativo ✗ Híbrido
- Exemplos: Windows Forms ✗ Cocoa



ANDROID

# Ferramentas

- Android Studio ✗ Eclipse
- Android Virtual Device Manager (AVD)
- SDK Manager
- Dalvik Debug Monitor Server (DDMS)
- Android Debug Bridge (ADB)

# Configurando ambiente

# Android

- Google
- 28 de setembro de 2008
- ARM, MIPS , Power, x86, x64
- kernel Linux :)

# Android

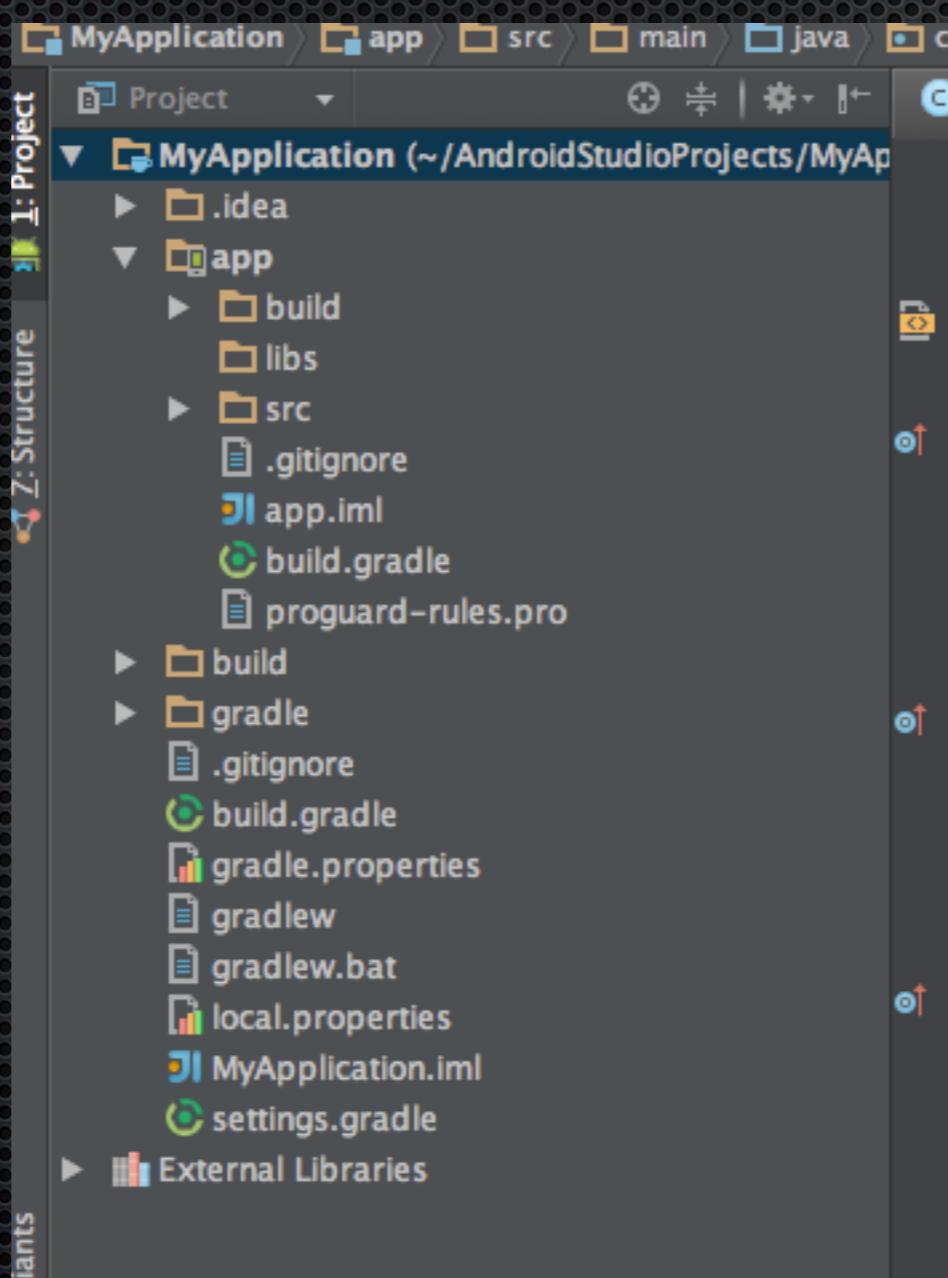
- Dalvik Virtual Machine
- JVM != DVM
- ~~Java bytecodes~~
- Dalvik bytecodes
- Preciso recompilar meus .jar? ✓
- ~~Swing~~

# APIs

- Aplique os novos paradigmas ✓
- Navegador: Webkit
- Gráficos: OpenGL ES
- SQLite
- Media
- Conectividade: Bluetooth, EDGE, 3G, 4G, USB, MIDI, WiFi
- APIs Java
- APIs Google (Google Play Services)

# Criando um projeto

# Estrutura



# Gradle

- Build System
- Padronização de Build
- Gradle wrapper

# mvnrepository.com

home » com.google.code.gson » gson » 2.2.4

## Gson

Google Gson library

<b>Artifact</b>	<a href="#">Download (JAR) (186 KB)</a>
<b>POM File</b>	<a href="#">View</a>
<b>Date</b>	(May 13, 2013)
<b>HomePage</b>	<a href="http://code.google.com/p/google-gson/">http://code.google.com/p/google-gson/</a>
<b>Organization</b>	Google, Inc.
<b>Issue Tracker</b>	<a href="http://code.google.com/p/google-gson/issues/list">http://code.google.com/p/google-gson/issues/list</a>

[Maven](#) [Ivy](#) [Grape](#) [Gradle](#) [Buildr](#) [SBT](#) [Leiningen](#)

```
'com.google.code.gson:gson:2.2.4'
```

# Exercício

- Crie uma nova VM Android e execute seu projeto.

# Android Emulator

- Emulador
- Comportamento real
- Qemu
- Genymotion
- Virtual Box