

Android Development



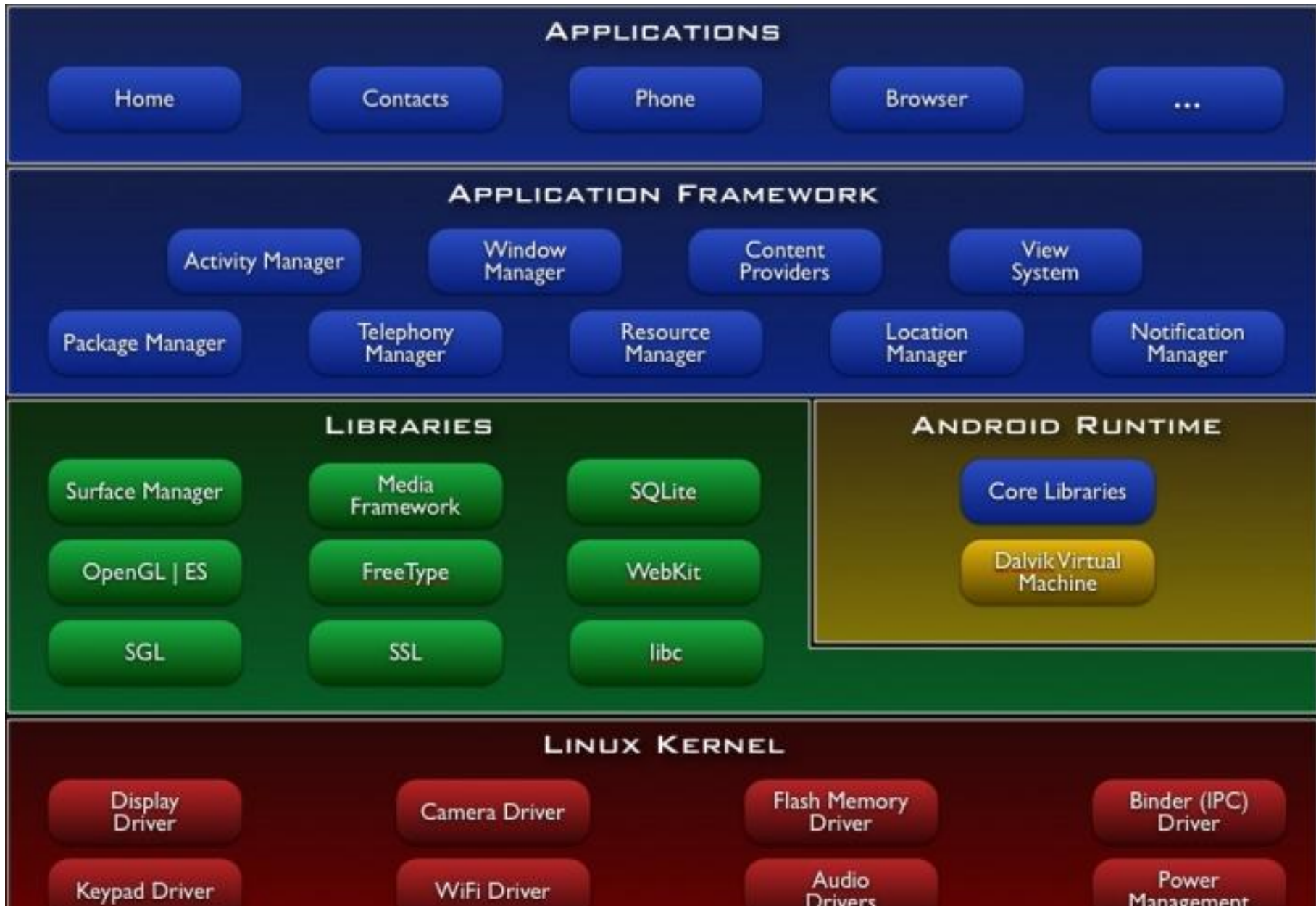
An Introduction

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Hello World

```
public class HelloWorld extends Activity {  
    public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
  
        TextView textView = new TextView(this);  
        textView.setText("helooo!");  
  
        setContentView(textView);  
    }  
}
```

What is Android



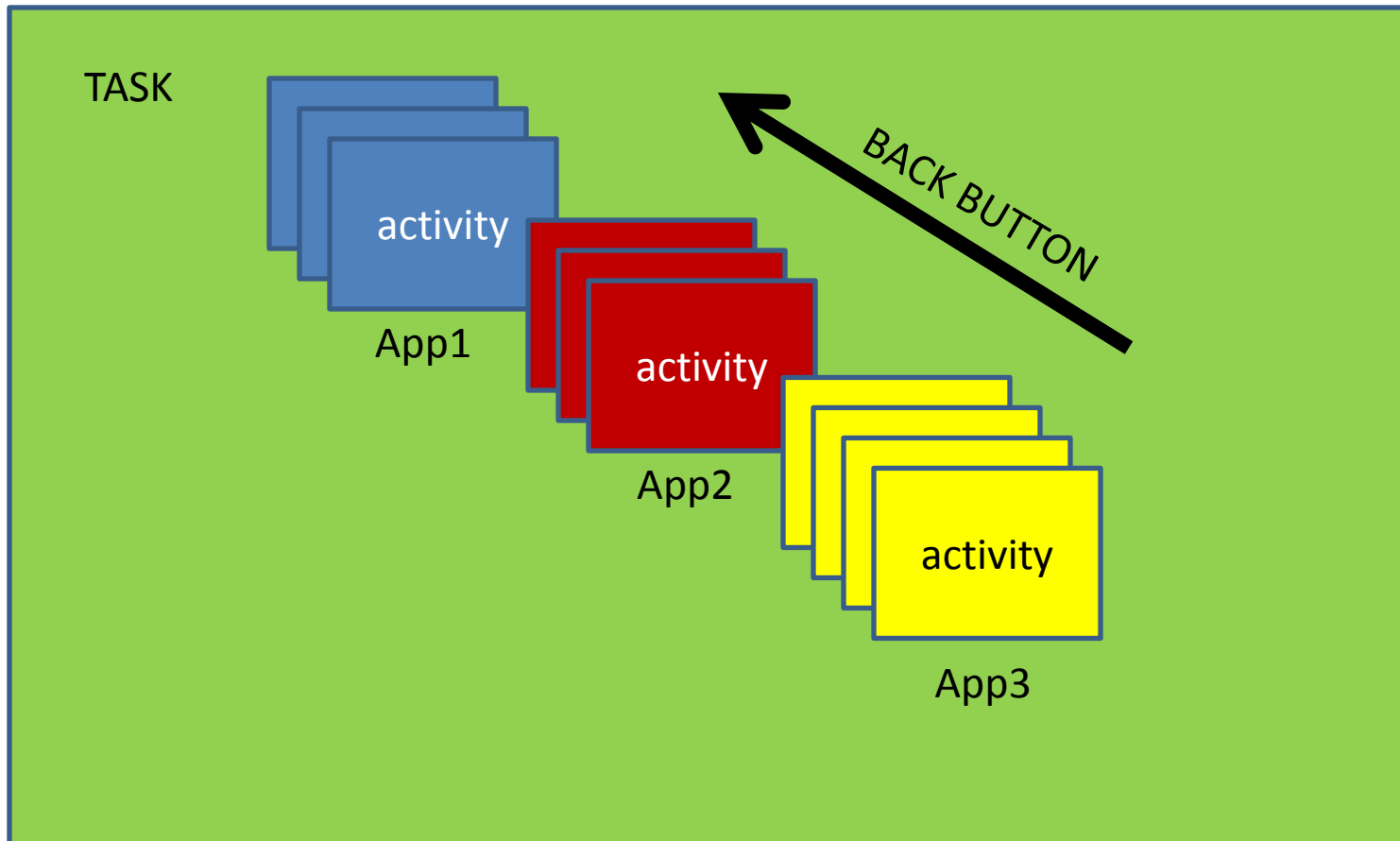
Application Fundamentals

- Java
- Android Package === .apk === One Application
- Every app has its own Linux Process
- Each process has its own JVM
- Every app has a unique Linux user id

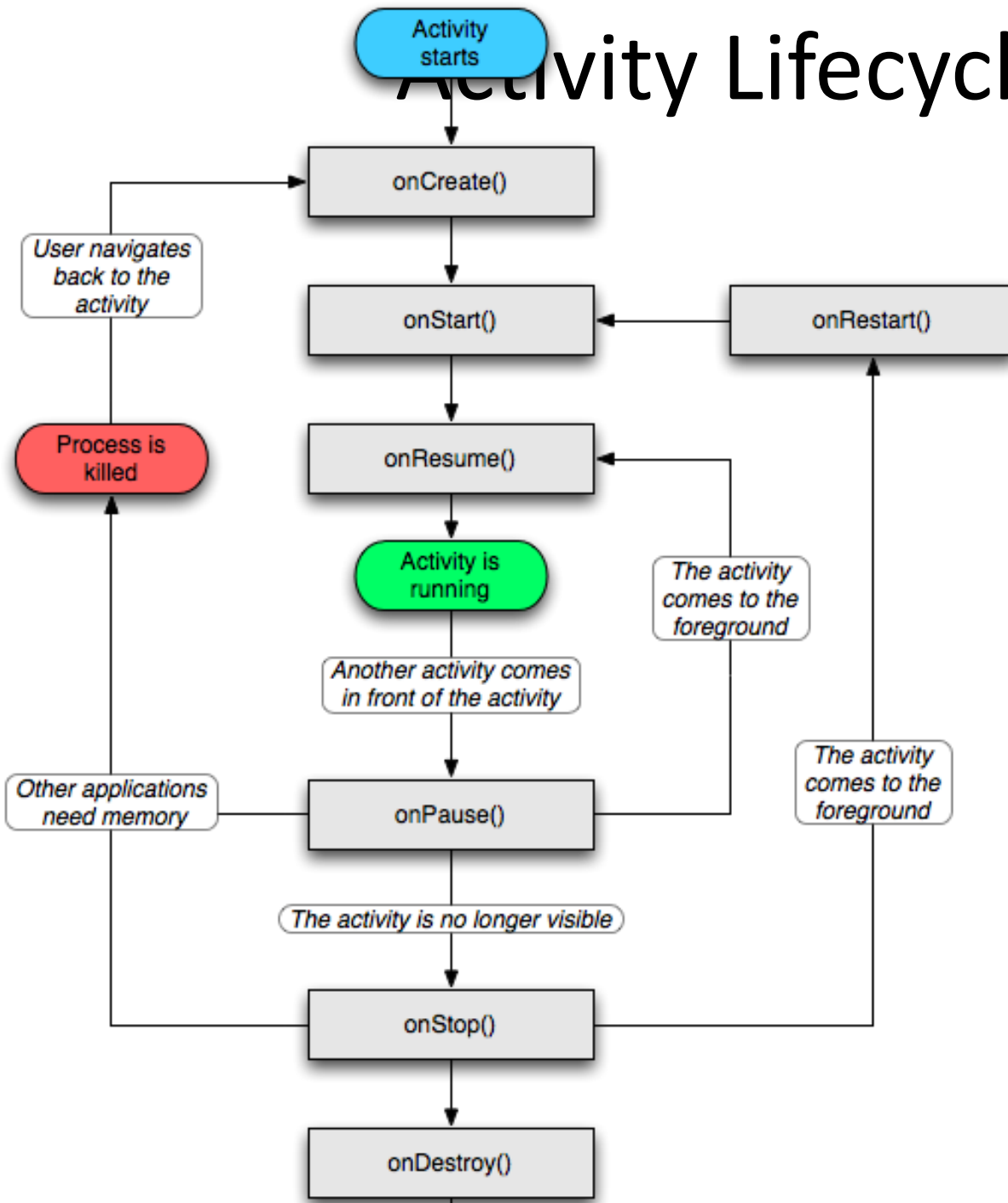
Components

- **Activities** - UI
- **Services** – Background tasks
- **Broadcast Receivers** – picture taken, timezone changed, battery low, network location changed
- **Content Providers** – Database (SQLite, Phonebook)
- **Intents** – Events / Messages

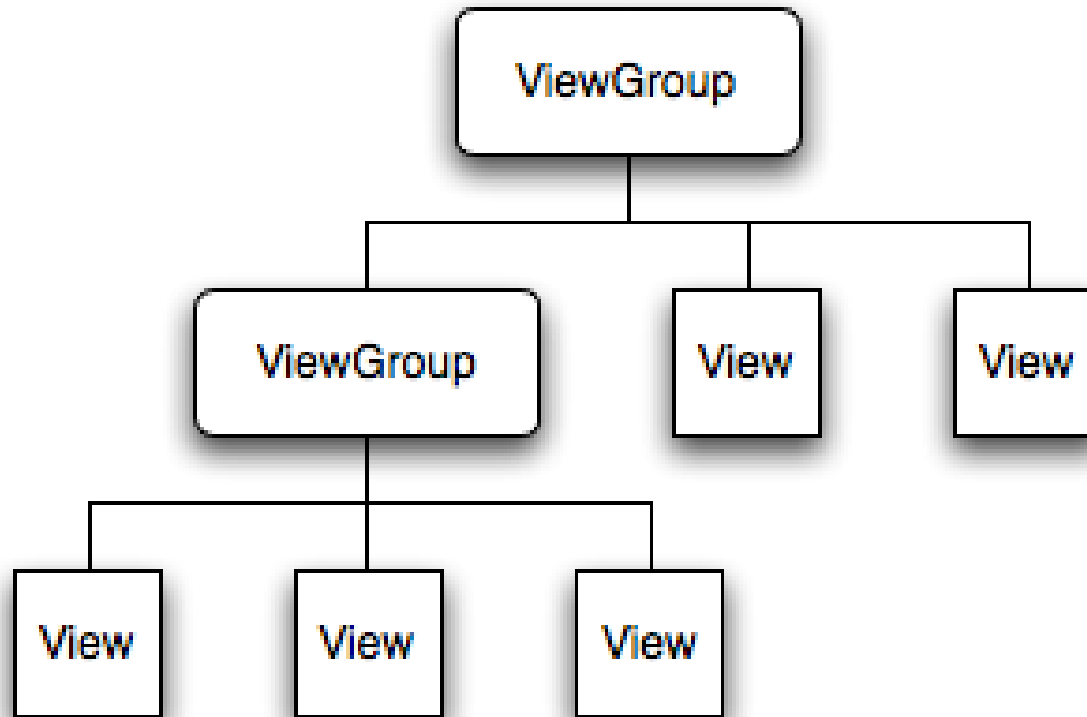
Activities And Tasks



Activity Lifecycle



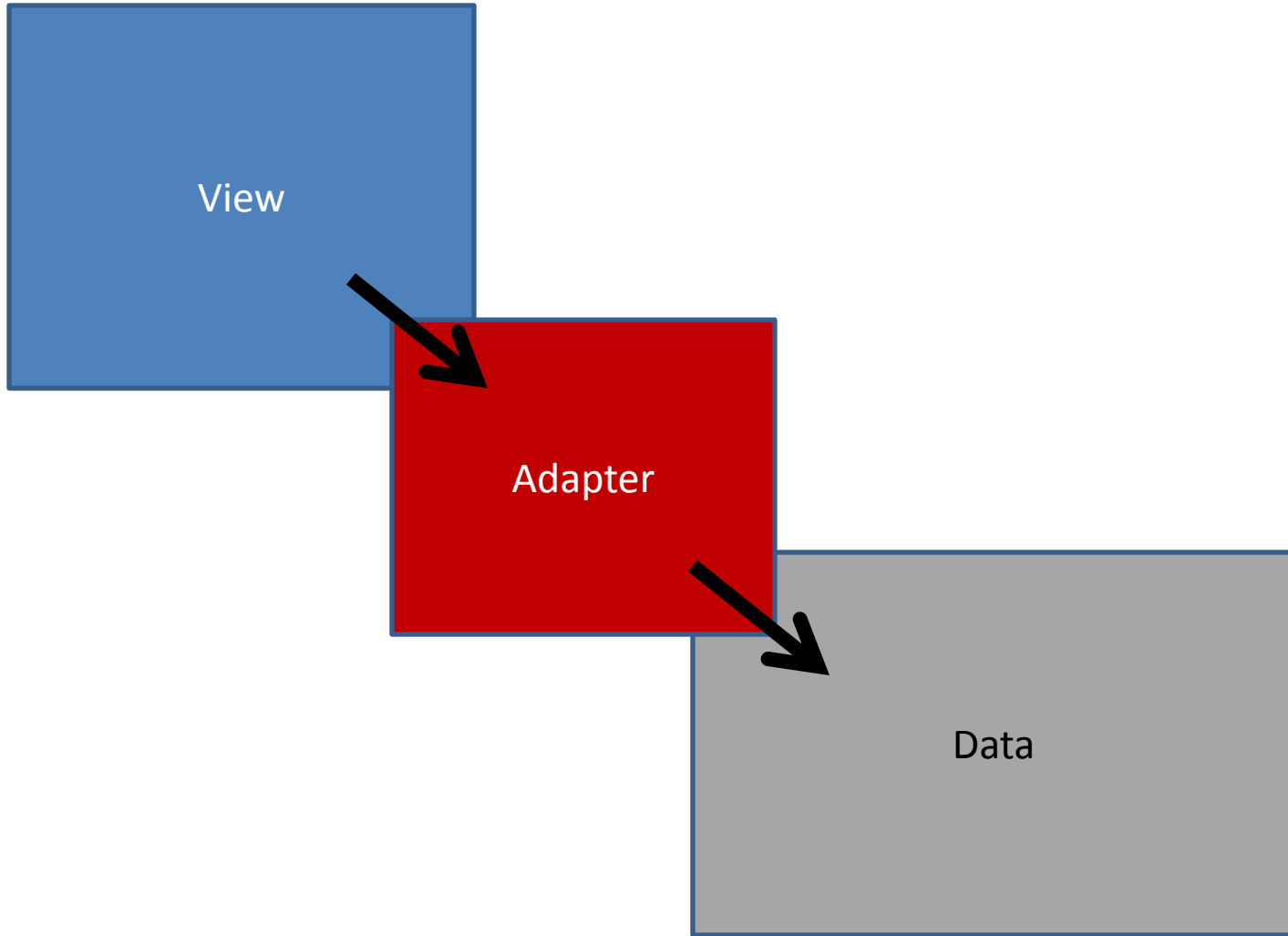
UI



UI Events

- `onClick`
- `onLongClick`
- `onFocusChange`
- `onKey`
- `onTouch`
- `onCreateContextMenu`

Adapters



Installation

- Java
- SDK
- Eclipse (classic)
- Android Plugin

Setup

- Download kits (eg. 1.5)
- Create a device
- Create a project in Eclipse

Example Applications

Tips & tricks

- adb logcat
- adb shell
- Create packages using Eclipse Export
- Eclipse shortcut-keys
 - **Ctrl-1** Quick Fix
 - **Ctrl-Space** Auto-complete
 - **Ctrl-Shift-L** List of shortcuts