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HELLO ANDROID



<http://developer.android.com>

APPLICATIONS

Home

Contacts

Phone

Browser

...

APPLICATION FRAMEWORK

Activity Manager

Window Manager

Content Providers

View System

Package Manager

Telephony Manager

Resource Manager

Location Manager

Notification Manager

LIBRARIES

Surface Manager

Media Framework

SQLite

OpenGL | ES

FreeType

WebKit

SGL

SSL

libc

ANDROID RUNTIME

Core Libraries

Dalvik Virtual Machine

LINUX KERNEL

Display Driver

Camera Driver

Flash Memory Driver

Binder (IPC) Driver

Keypad Driver

WiFi Driver

Audio Drivers

Power Management

Application Components

- Activities
- Services
- Broadcast receivers
- Content providers

Environment Setup

- Eclipse Classic

<http://www.eclipse.org/downloads/>

- Android SDK started

<http://developer.android.com/sdk/index.html>

Hello World – programmatic UI

```
public void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    TextView tv = new TextView(this);  
    tv.setText("Hello, Android");  
    setContentView(tv);  
}
```

Hello World – XML UI

- res/layout/main.xml

```
<TextView
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:id="@+id/textview"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent"
  android:text="@string/hello"/>
```

- res/values/string.xml

```
<resources>
  <string name="hello">Hello, Android! I am a string
  resource!</string>
  <string name="app_name">Hello, Android</string>
</resources>
```

Debug

```
public void onCreate(Bundle
    savedInstanceState) {
    super.onCreate(savedInstanceState);
    Object o = null;
    o.toString();
    setContentView(R.layout.main);
}
```

Layouts & Views

<http://developer.android.com/resources/tutorials/views/index.html>

SQL

- ◎ CREATE TABLE
- ◎ SELECT-FROM
 - WHERE
 - GROUP BY
 - ORDER BY
 - HAVING
- ◎ INSERT INTO table VALUES ('first', 0, ...)
- ◎ UPDATE table SET x = 0 WHERE

Notepad Ex1

<http://developer.android.com/resources/tutorials/notepad/notepad-ex1.html>