Android Udvikling

Open Source

o Java

Subset af JDK

Dalvik VM

3rd party pakker



Android SDK

Windows, Mac OSX, Linux
Består af
Debugger
Emulator
Docs og tools

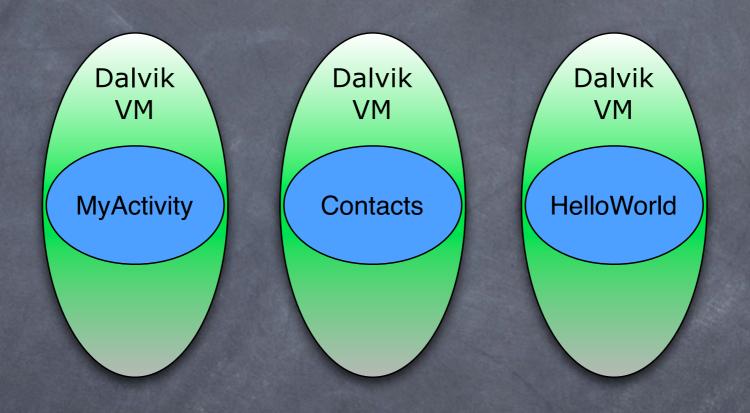


Android SDK

Java -> Dalvik
 bytecode (dex)

Dalvik VM kører
 bytecode



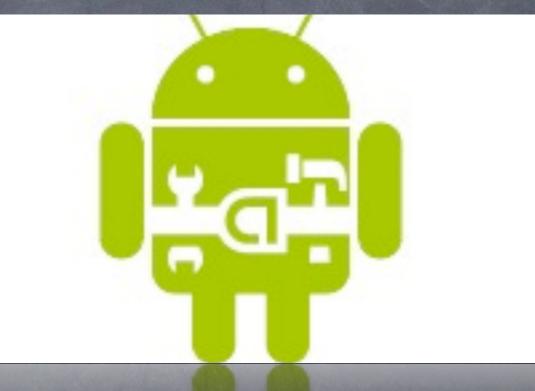


Android SDK

Binaries .apk

Signeret Jar fil

 XML konverteret til bytecode



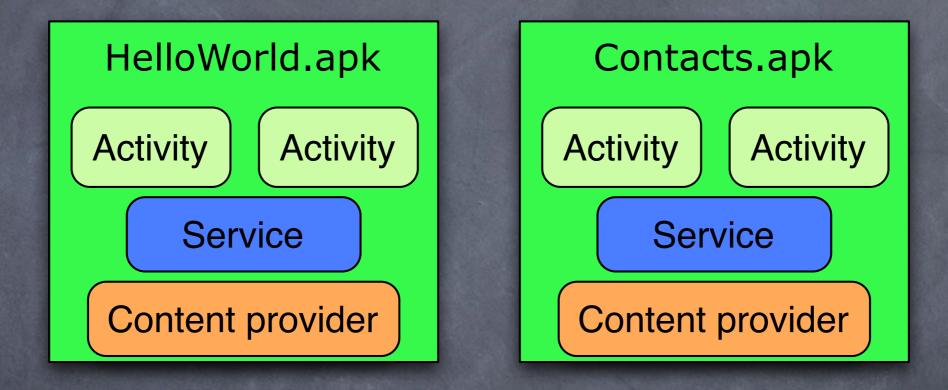
Hvad består en app af?

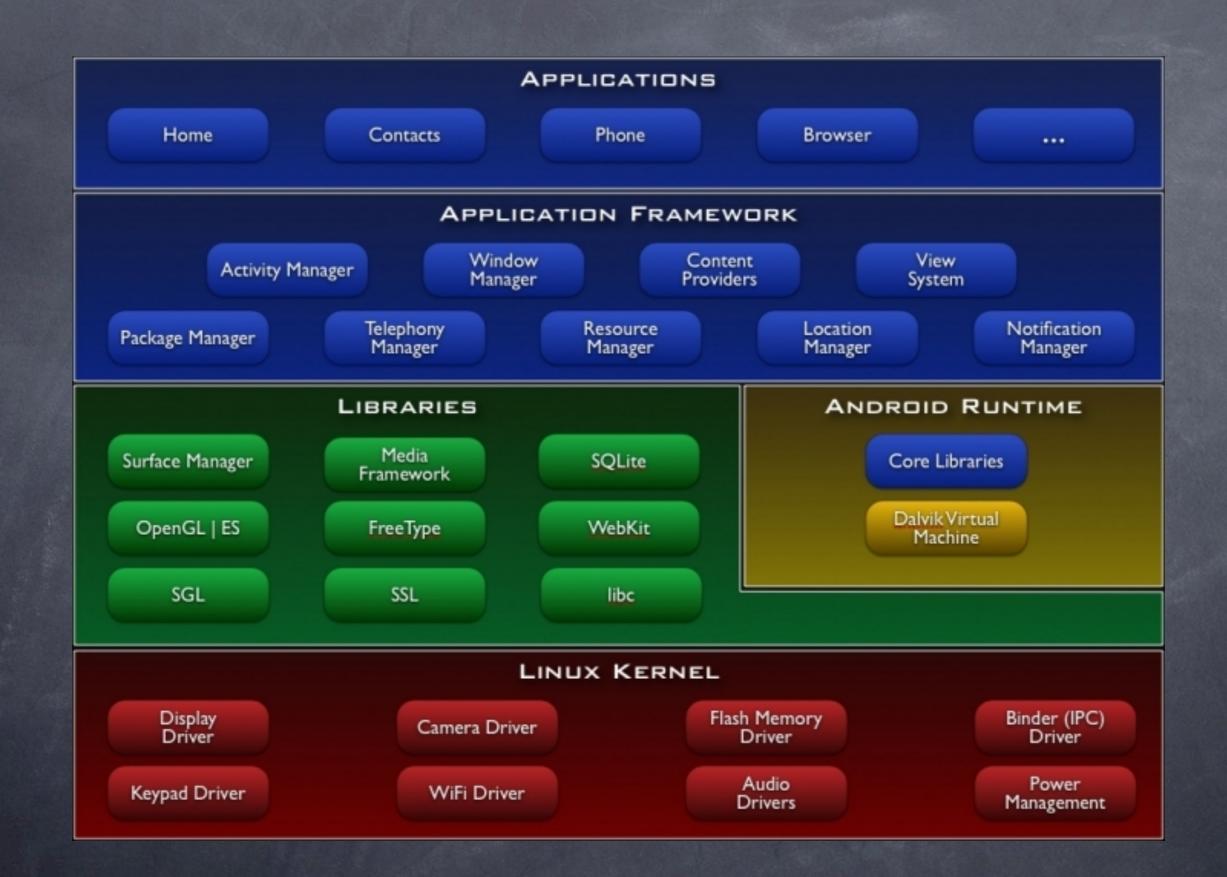
AndroidManifest.xml Source kode Resourcer XML ø Binære Text



Hvad består en app af?

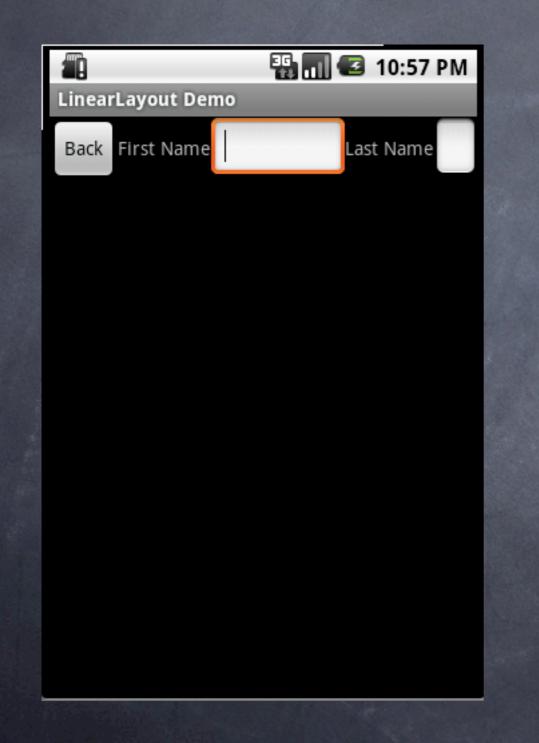
Activities Widgets Services (background!) Content Providers Intents Permissions











<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android" android:orientation="horizontal" android:layout_width="fill_parent" android:layout_height="fill_parent"> <Button android:id="@+id/backbutton" android:text="Back" android: layout width="wrap content" android:layout_height="wrap_content" /> <TextView android:text="First Name" android:layout_width="wrap content" android:layout height="wrap content" /> <EditText android:width="100px" android:layout width="wrap content" android:layout height="wrap content" /> <TextView android:text="Last Name" android: layout width="wrap content" android:layout height="wrap content" /> <EditText android:width="100px" android: layout width="wrap content" android:layout height="wrap content" /> </LinearLayout>

Tuesday, March 22, 2011

.	🌇 📶 🕝 10:25 PM
LinearLayout Demo	
Back	
First Name	
Last Name	

android:orientation="vertical"

InearLayout Demo Back First Name Last Name				
LinearLayout Demo Back First Name		- S. M. 🖸	10:39 PM	
Back First Name				
First Name	ear Layour Denio			
First Name	ck			
Last Name	Name			
Last Name		_		
	Mana			
	Name			
				-

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre> android:orientation="vertical" android:layout width="fill parent" android:layout height="fill parent"> <Button android:id="@+id/backbutton" android:text="Back" android:layout width="wrap content" android:layout_height="wrap_content" /> <LinearLayout android:orientation="horizontal" android:layout width="fill parent" android:layout_height="wrap_content"> <TextView android:text="First Name" android:layout width="wrap content" android:layout height="wrap content" /> <EditText android:width="100px" android:layout width="wrap content" android:layout_height="wrap_content" /> </LinearLayout> <LinearLayout android:orientation="horizontal" android:layout width="fill parent" android:layout_height="wrap_content"> <TextView android:text="Last Name" android:layout width="wrap content" android:layout_height="wrap_content" /> <EditText android:width="100px" android:layout_width="wrap_content" android:layout_height="wrap_content" /> </LinearLayout> </LinearLayout>

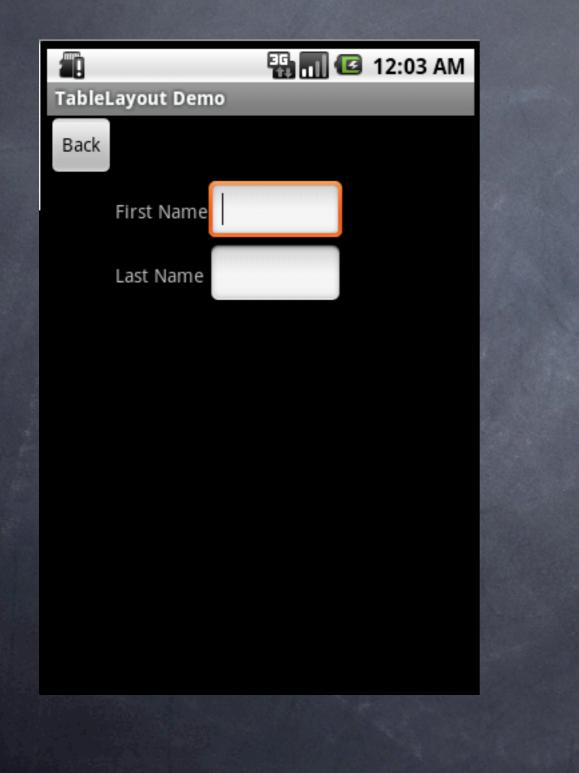
Tuesday, March 22, 2011

Layouts

<TableLayout

<TableRow>

<Button



</TableRow> </TableLayout>

android:id="@+id/backbutton" android:text="Back" android:layout width="wrap content" android:layout height="wrap content" /> </TableRow> <TableRow> <TextView android:text="First Name" android:layout width="wrap content" android:layout height="wrap content" android:layout column="1" /> <EditText android:width="100px" android:layout_width="wrap_content" android:layout height="wrap content" /> </TableRow> <TableRow> <TextView android:text="Last Name" android:layout width="wrap content" android:layout_height="wrap_content" android:layout column="1" /> <EditText android:width="100px" android: layout width="wrap content" android:layout height="wrap content" />

xmlns:android="http://schemas.android.com/apk/res/android">

android:layout_width="fill_parent" android:layout_height="fill_parent"

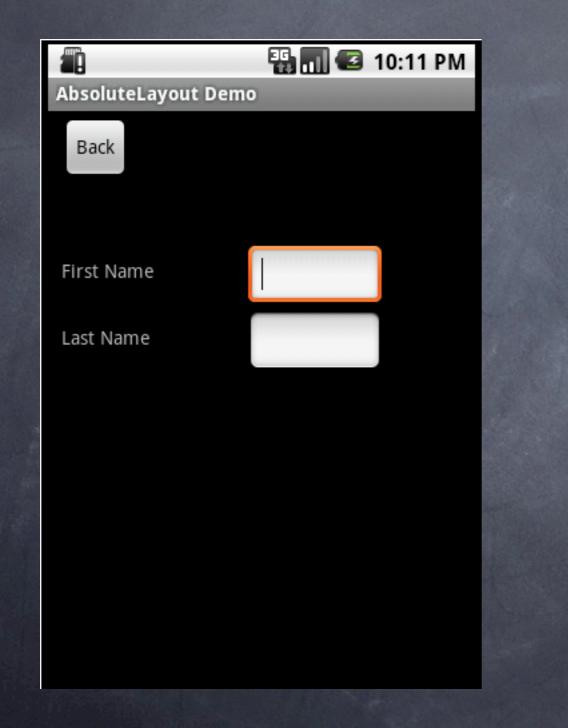
.	🏭 📊 🛃 9:00 PM
RelativeLayout Demo	
Back	
First Name	
Last Name	

Tuesday, March 22, 2011

<RelativeLayout

android:layout width="fill parent" android:layout height="fill parent" xmlns:android="http://schemas.android.com/apk/res/android"> <Button android:id="@+id/backbutton" android:text="Back" android:layout width="wrap content" android:layout height="wrap content" /> <TextView android:id="@+id/firstName" android:text="First Name" android:layout width="wrap content" android:layout height="wrap content" android:layout below="@id/backbutton" /> <EditText android:width="100px" android:layout width="wrap content" android:layout height="wrap content" android:layout toRightOf="@id/firstName" android:layout alignBaseline="@id/firstName" /> <TextView android:id="@+id/lastName" android:text="Last Name" android:layout width="wrap content" android:layout height="wrap content" android:layout below="@id/firstName" /> <EditText android:width="100px" android:layout_width="wrap_content" android:layout height="wrap content" android:layout toRightOf="@id/lastName" android:layout alignBaseline="@id/lastName" />

</RelativeLayout>



<AbsoluteLayout xmlns:android="http://schemas.android.com/apk/res/android" android:layout_width="fill_parent" android:layout height="fill parent"> <Button android:id="@+id/backbutton" android:text="Back" android:layout x="10px" android:layout y="5px" android:layout width="wrap content" android:layout height="wrap content" /> <TextView android:layout x="10px" android:layout y="110px" android:text="First Name" android:layout width="wrap content" android:layout height="wrap content" /> <EditText android:layout x="150px" android:layout y="100px" android:width="100px" android: layout width="wrap content" android:layout height="wrap content" /> <TextView android:layout x="10px" android:layout y="160px" android:text="Last Name" android:layout width="wrap content" android:layout height="wrap content" /> <EditText android:layout x="150px" android:layout y="150px" android:width="100px" android:layout width="wrap content" android:layout height="wrap content" /> </AbsoluteLayout>

A toast !!

Toast.makeText(this, "A toast !", Toast.LENGTH_SHORT).show();

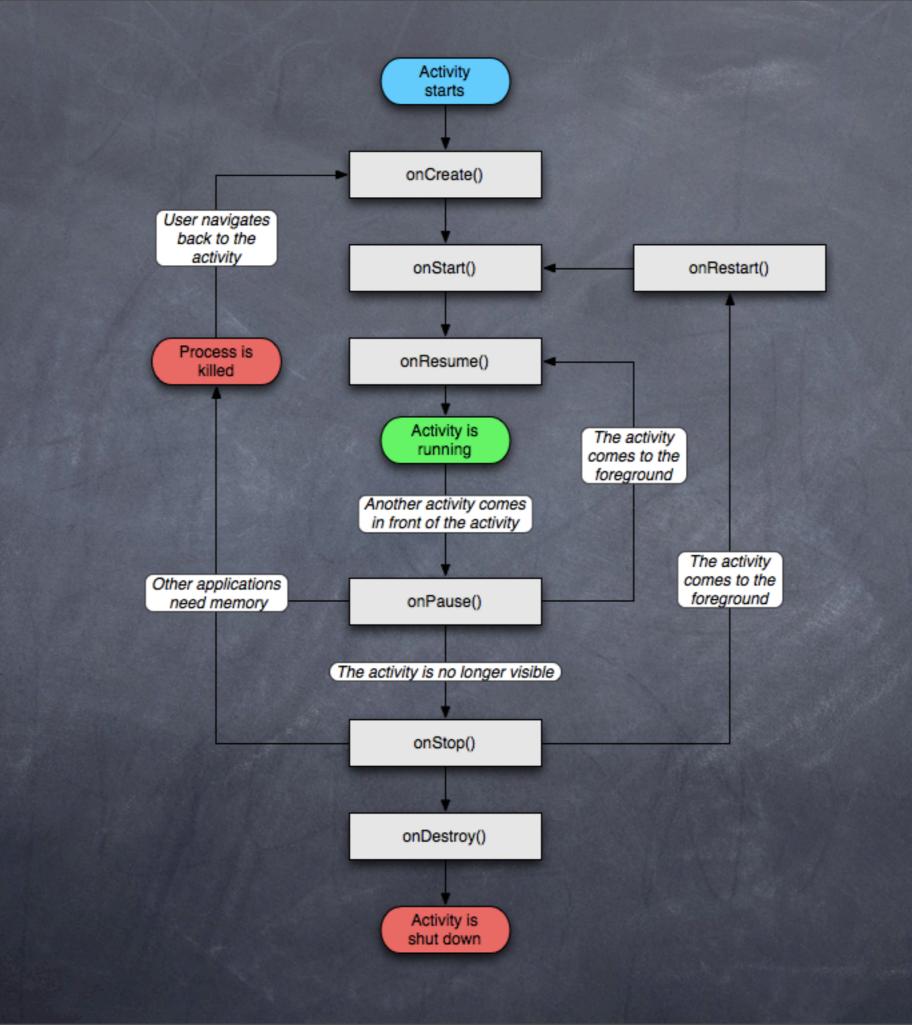
Manifest

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="dk.anug"
    android:versionCode="1"
    android:versionName="1.0">
    <application android:icon="@drawable/icon" android:label="@string/app_name">
        <application android:icon="@drawable/icon" android:icon="@drawable/icon"</a>
```

```
</application>
<uses-sdk android:minSdkVersion="5" />
```

</manifest>

Activity lifecycle



Tuesday, March 22, 2011

Logning

android.util.Log
Log.i()
Log.d()
Log.w()
Log.e()