

Android

Och utveckling för mobila enheter

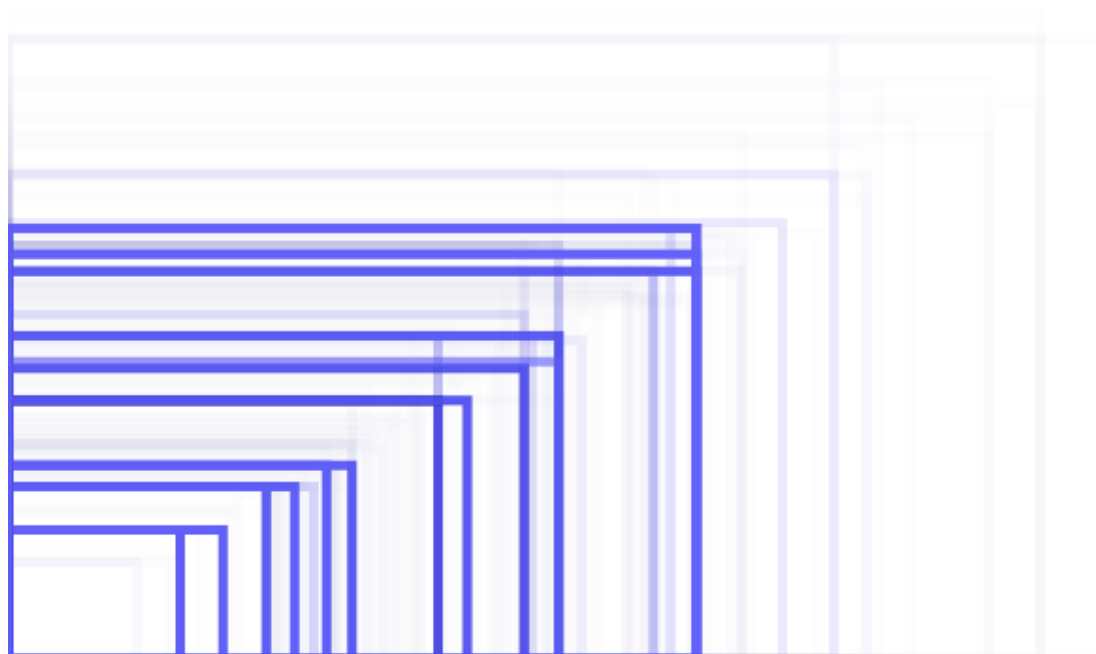
Idag

- Responsivitet
- Android?
- App-struktur

Responsivitet

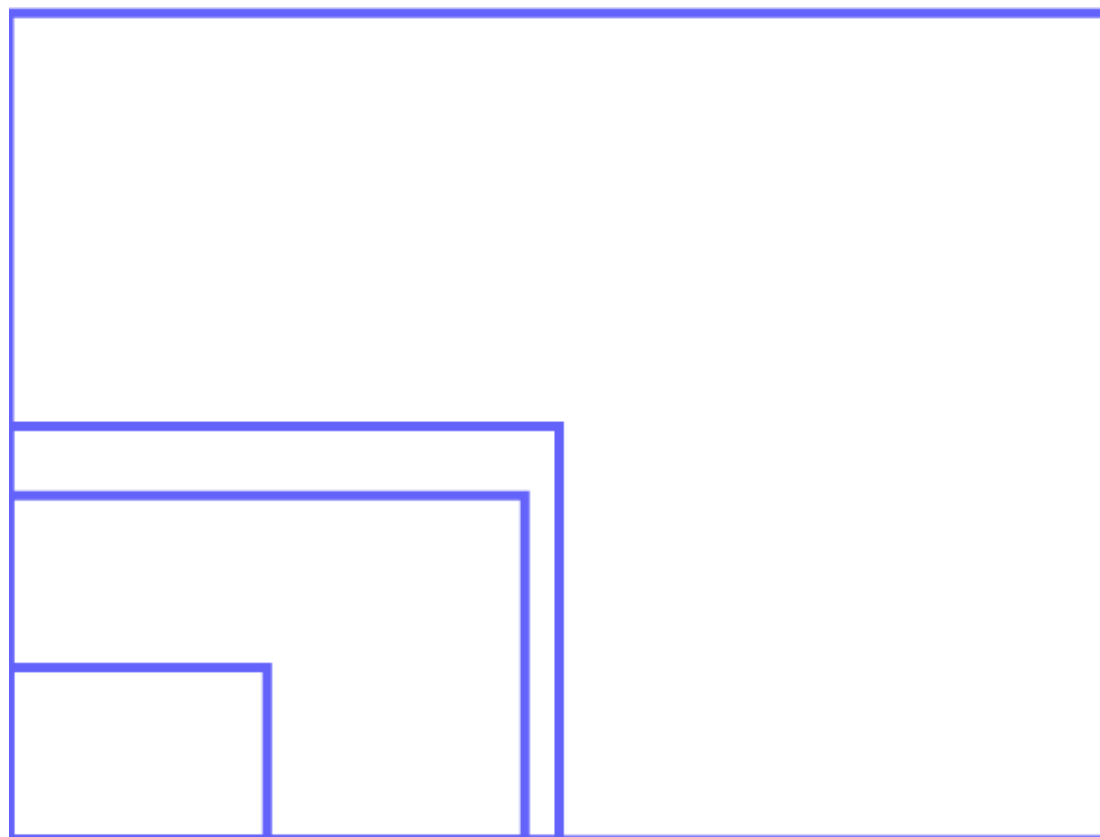
~~Progressive enhancement~~

Android, Augusti 2012



Källa

iOS, Augusti 2012



Källa

I praktiken

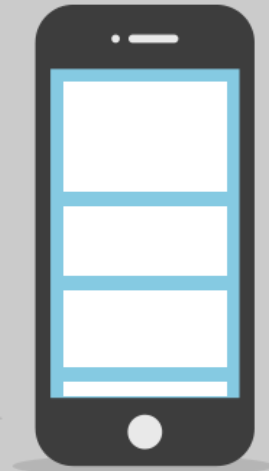
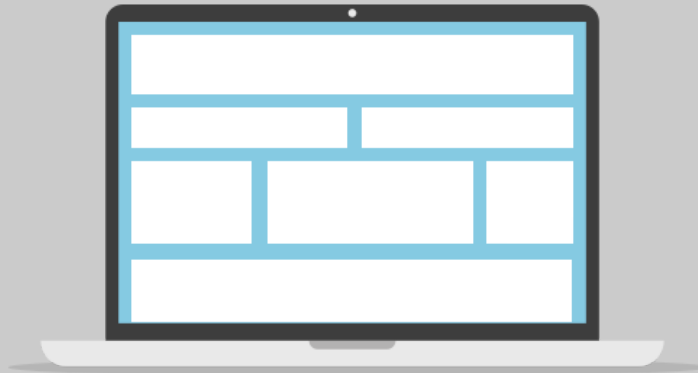
HTML & CSS

Media queries

```
@media (max-width: 320px) {  
  /* ... massa kod här! */  
}
```

```
@media (min-width: 700px) and (orientation: landscape) {  
  /* ... massa kod här! */  
}
```

Mer info!



```
@media (max-width: 700px) {  
  .column {  
    clear: both;  
  }  
}
```

Olika verktyg

- Pure
- Skeleton
- Bootstrap
- Foundation
- Responsive
- Semantic UI
- Osv, osv, osv.

Android?

- Mobilt operativsystem
- 1 miljard aktiva enheter
- 1 miljon appar, 50 miljarder nedladdningar
- Java
- Gratis att komma igång med!

App-struktur

Android SDK – Software Development Kit

Android Studio

developer.android.com/training

AndroidManifest.xml

res/

layout/

drawable/

values/

src/

AndroidManifest.xml

Styr appen intern och externt.

res /

Bilder, ljud, vyer, mm.

```
res/  
    drawable/  
        icon.png  
        selfie.jpg  
        bird.png  
    layout/  
        main.xml  
        info.xml  
    values/  
        strings.xml  
        styles.xml
```

Qualifiers

drawable/

drawable-hdpi/

drawable-ldpi/

layout/

layout-sw600dp/

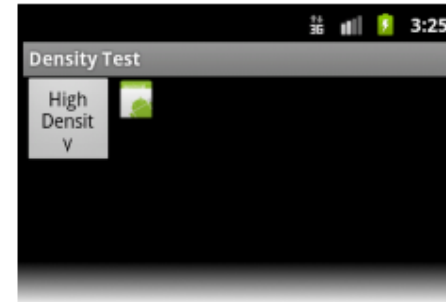
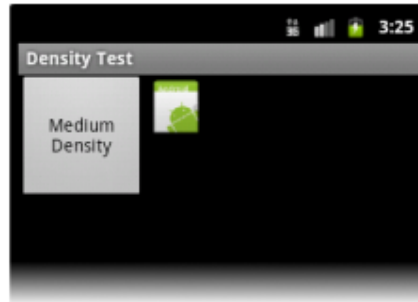
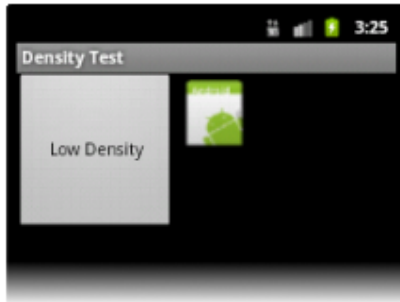
values/

values-swe

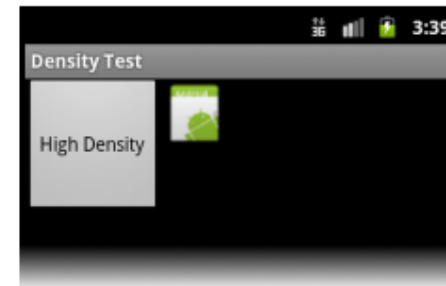
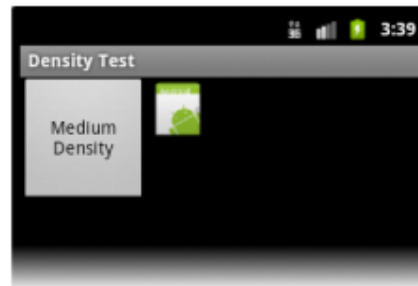
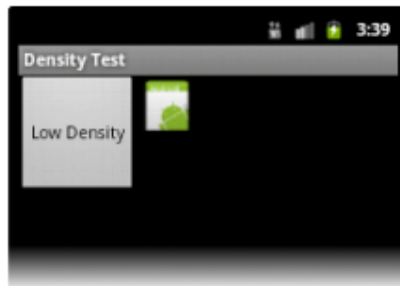
values-fr-rBE

values-en-hdpi

Dåligt



Bra!



```
// Ladda in bakgrund för skärmen från en drawable resource  
getWindow().setBackgroundDrawableResource(R.drawable.my_background_image);  
  
// Ladda in vyn main_screen  
setContentView(R.layout.main_screen);
```

- drawable/my_background_image.png
- drawable-ldpi/my_background_image.png
- drawable-hdpi/my_background_image.png
- drawable-xhdpi/my_background_image.png

- layout/main_screen.xml
- layout-sw600dp/main_screen.xml

layout/

Användargränssnitt för appen

- Skrivs i XML eller under runtime
- ViewGroup
 - LinearLayout
 - RelativeLayout
 - AdapterView
- Responsivt

activity_my.xml

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="@dimen/activity_common_margin"
    tools:context=".MyActivity">

    <TextView
        android:text="@string/hello_world"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />

</RelativeLayout>
```

MyActivity.java

```
// Importer osv.
public class MyActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_my);
    }
    // ...
}
```

strings.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="hello_world">Hello world!</string>
</resources>
```

Labben

To Do-lista