



Lesson 9

Android *Fonts*

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Fonts

Ice Cream Sandwich introduced a new font type family named **Roboto**.

The new font intends to provide a uniform touch to Android apps and display well on high-resolution screens.

The current TextView framework supports **regular**, **bold**, *italic*, and ***bold italic*** weights by default.

(this page is written with the Roboto Font)

Roboto Regular

ABCDEFGHIJKLMN
OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
opqrstuvwxyz

Roboto Bold

ABCDEFGHIJKLMN
OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
opqrstuvwxyz

Reference:

<http://developer.android.com/design/style/typography.html>

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Default type colors

The Android UI uses the following default text color styles:

textColorPrimary and
textColorSecondary.

For light themes use
textColorPrimaryInverse and
textColorSecondaryInverse.

Text Color Primary Dark
Text Color Secondary Dark

Text Color Primary Light
Text Color Secondary Light

Reference:

<http://developer.android.com/design/style/typography.html>

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Typographic Scale

The Android framework a limited set of type sizes.

Users can also select specific **textSize** in scale-independent pixels (sp).

Text Size Micro	12sp
Text Size Small	14sp
Text Size Medium	18sp
Text Size Large	22sp

Reference:

<http://developer.android.com/design/style/typography.html>

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Android's **typeFace** attribute can be set using XML or code as follows:

1. XML clause `android:typeFace="..."` clause, or
2. Method `.setTypeFace(...)`

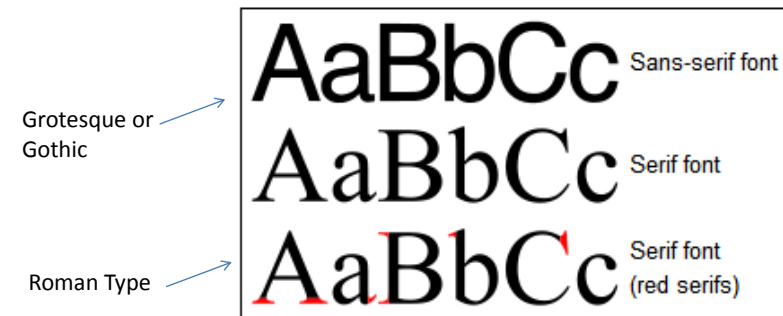
Options are:

- sans:** An m is wider than i, mmm iii
- serif:** An m is wider than i, mmm iii
- monospaced:** An mmm is not wider than iii

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Also know as:



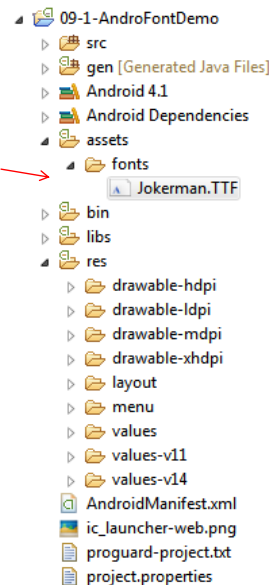
Source: <http://en.wikipedia.org/wiki/Serif>

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Developers may add any font to their application by following the next steps:

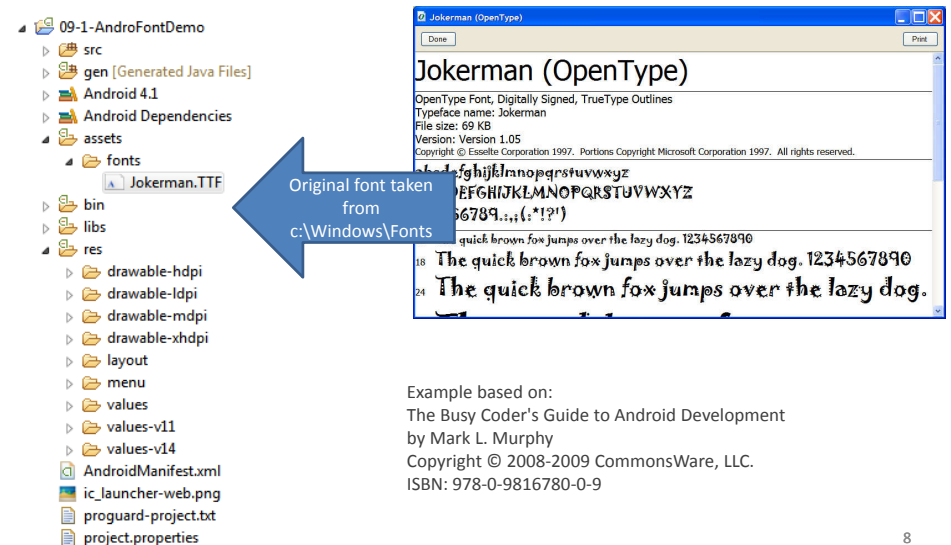
1. Create the **/fonts** folder in the **/assets** directory.
2. Copy *any fonts* you plan to use into the new folder (Look at `c:\Windows\Font` for your basic local collection).
3. Use Java code to bind the font with the UI widget wanting to display the custom typeface (see *example*).



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Example: Getting ready to use the **Jokerman.TTF** font.



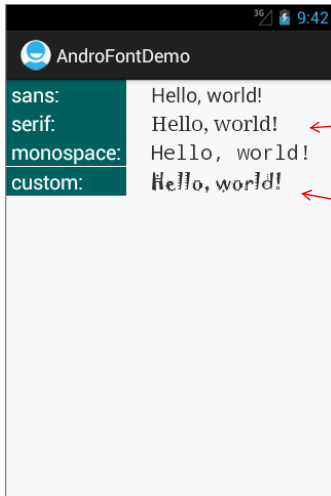
Example based on:
The Busy Coder's Guide to Android Development
by Mark L. Murphy
Copyright © 2008-2009 CommonsWare, LLC.
ISBN: 978-0-9816780-0-9

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Example:

Display the **Hello World !** message using different fonts.



Using the Roboto font

Using the font: Jokerman.TTF

Note:

If you are using Windows look into the folder: `c:\Windows\Fonts` for fonts installed in your machine.

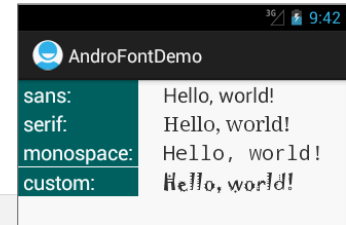
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Example Application:

Showing different FONT types.

XML Layout: **main.xml** (1 of 5)



```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical"
    android:stretchColumns="1" >

    <TableRow
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal" >
```

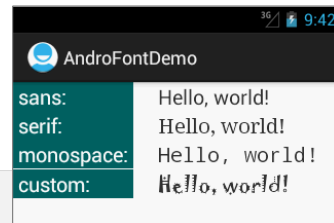
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Example Application:

Showing different FONT types.

XML Layout: **main.xml** (2 of 5)



```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginRight="24dp"
    android:background="#ff006666"
    android:text=" sans:"
    android:textColor="@android:color/primary_text_dark"
    android:textSize="20sp" >
</TextView>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello, world!"
    android:textSize="20sp"
    android:typeface="sans" > ←
</TextView>
</TableRow>
```

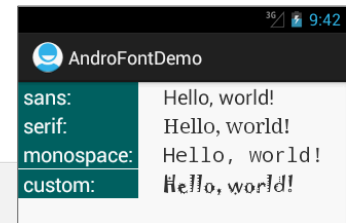
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Example Application:

Showing different FONT types.

XML Layout: **main.xml** (3 of 5)



```
<TableRow
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal" >

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginRight="24dp"
        android:background="#ff006666"
        android:text=" serif:"
        android:textColor="@android:color/primary_text_dark"
        android:textSize="20sp" >
    </TextView>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello, world!"
        android:textSize="20sp"
        android:typeface="serif" > ←
    </TextView>
</TableRow>
```

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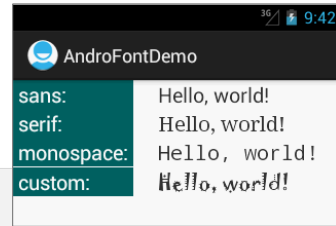
Example Application:

Showing different FONT types.

XML Layout: **main.xml** (4 of 5)

```
<TableRow
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal" >

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginRight="24dp"
        android:background="#ff006666"
        android:text=" monospace: "
        android:textColor="@android:color/primary_text_dark"
        android:textSize="20sp" >
    </TextView>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello, world!"
        android:textSize="20sp"
        android:typeface="monospace" >
    </TextView>
</TableRow>
```



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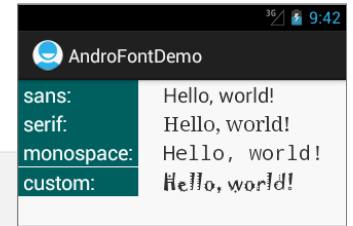
Example Application:

Showing different FONT types.

XML Layout: **main.xml** (5 of 5)

```
<TableRow
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal" >

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginRight="24dp"
        android:background="#ff006666"
        android:text=" custom: "
        android:textColor="@android:color/primary_text_dark"
        android:textSize="20sp" >
    </TextView>
    <TextView
        android:id="@+id/custom"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello, world!"
        android:textSize="20sp" >
    </TextView>
</TableRow>
</TableLayout>
```



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Example Application:

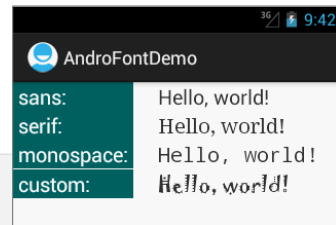
Showing different FONT types.

XML Layout: **main.xml** (5 of 5)

```
public class AndroFontDemo extends Activity {
    @Override
    public void onCreate(Bundle icle) {
        super.onCreate(icle);
        setContentView(R.layout.main);

        // bind the "custom" TextView with chosen font
        TextView txtCustom=(TextView)findViewById(R.id.custom);

        txtCustom.setTypeface(Typeface.SANS_SERIF);
        Typeface myNewFace=Typeface.createFromAsset(getAssets(),
            "fonts/Jokerman.TTF");
        txtCustom.setTypeface(myNewFace);
    }
}
}
```



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Questions ?