

Android Development

Chapter 4 - Context and Option Menus



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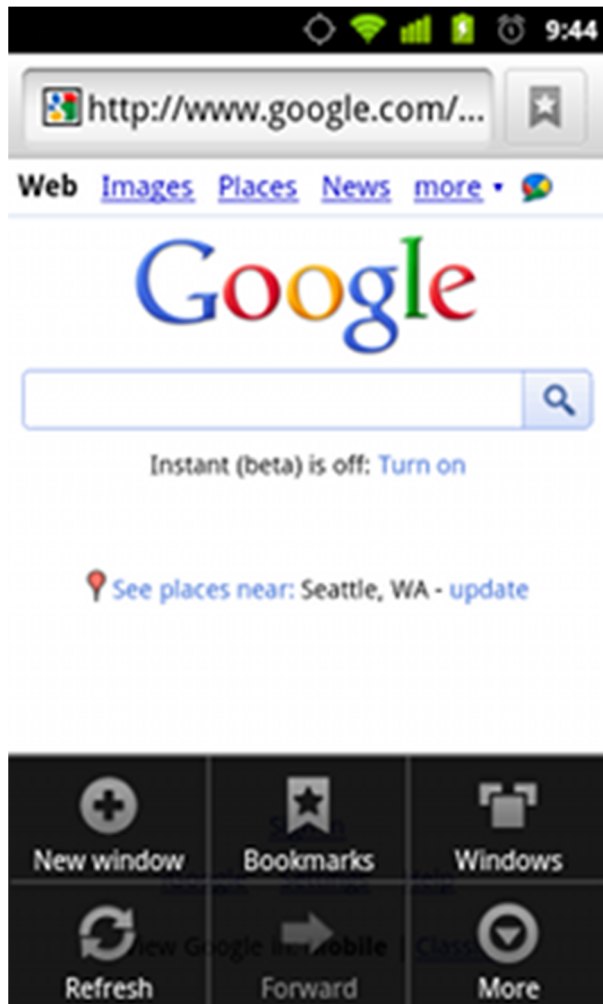
Menus

Menus

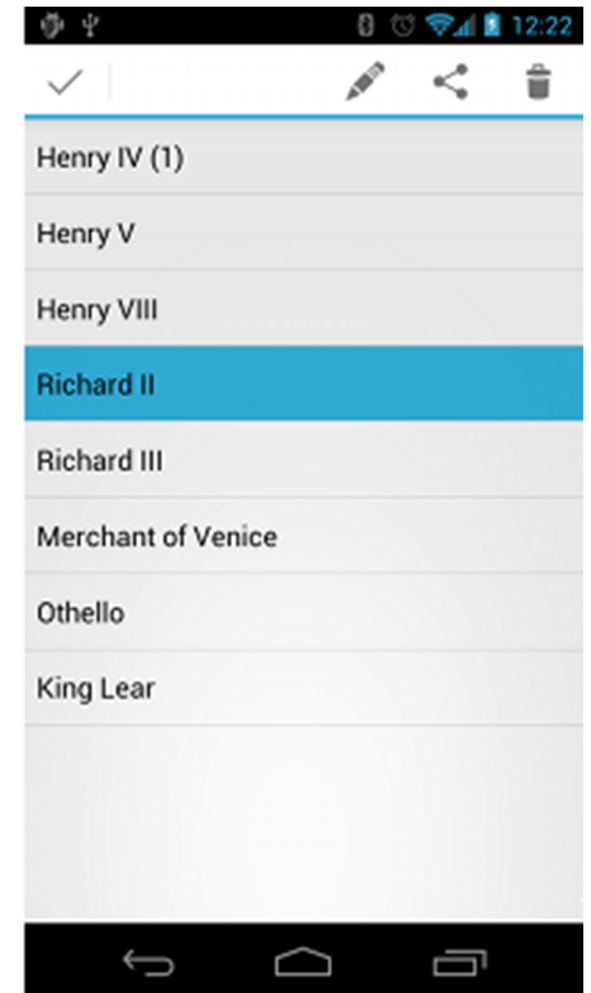
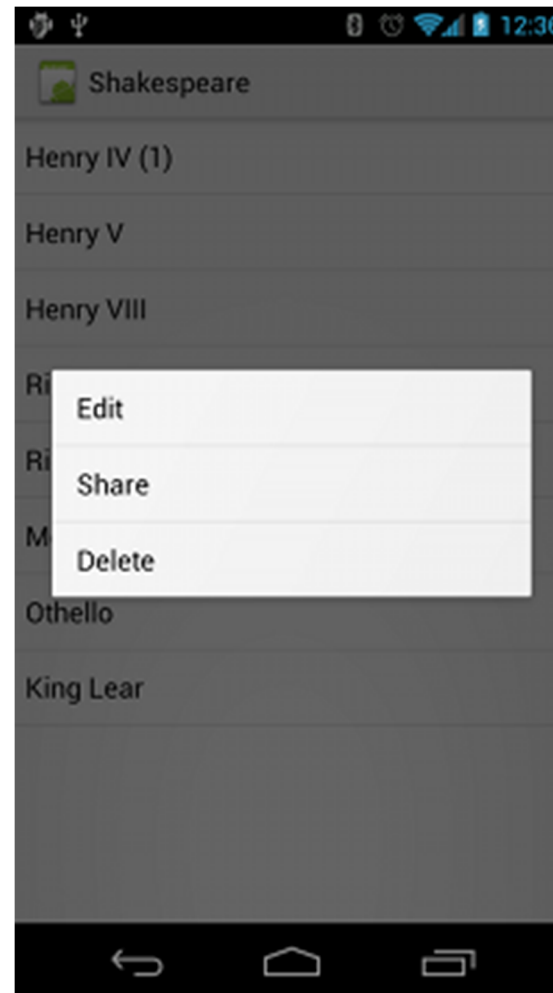
- Menus are useful for **displaying additional options** that are not directly visible on the main UI
- There are two main types of menus in Android
 - **Options menu**
 - Displays information related to the current activity
 - You can activate the options menu by pressing the MENU button
 - **Context menu**
 - Displays information related to a particular view on an activity.
 - You can activate the context menu by tapping and holding on to an item (from example a ListView)

Menus

- Options menu



- Context menu



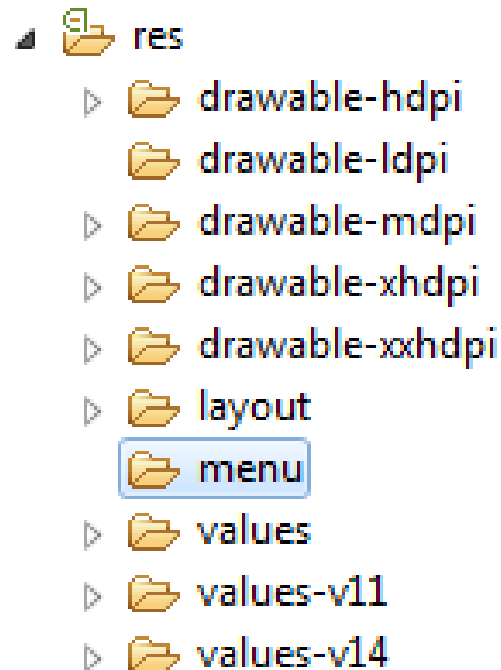
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Creating an Options Menu

Creating a Resource Menu folder

- Step 1 – Start by creating a *res/menu* folder
 - If you already haven't got one



Creating the XML Menu Structure

- Step 2 – Create the menu as an XML file (menu_main.xml) in *res/menu*
 - *This is already there when you use a "Blank Activity"*

```
<menu xmlns:android="http://schemas.android.com/apk/res/android"
      xmlns:app="http://schemas.android.com/apk/res-auto"
      xmlns:tools="http://schemas.android.com/tools" tools:context=".MainActivity">

    <item android:id="@+id/action_settings" android:title="@string/action_settings"
          android:orderInCategory="100" app:showAsAction="never" />

    <item android:id="@+id/action_about" android:title="@string/action_about"
          android:orderInCategory="200" app:showAsAction="never" />

</menu>
```

Creating the Toolbar Widget

- Step 3 – Create a toolbar widget inside the activity container
 - *This is already there when you use a "Blank Activity"*

```
<android.support.v7.widget.Toolbar android:id="@+id/toolbar"  
    android:layout_width="match_parent"  
    android:layout_height="?attr/actionBarSize"  
    android:background="?attr/colorPrimary"  
    app:popupTheme="@style/AppTheme.PopupOverlay" />
```


Inflating the Menu

- Step 4 – Set the toolbar and inflate the menu
 - *This is already there when you use a "Blank Activity"*

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);
    setSupportActionBar(toolbar);

    // ..

}
```

```
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.menu_main, menu);
    return true;
}
```

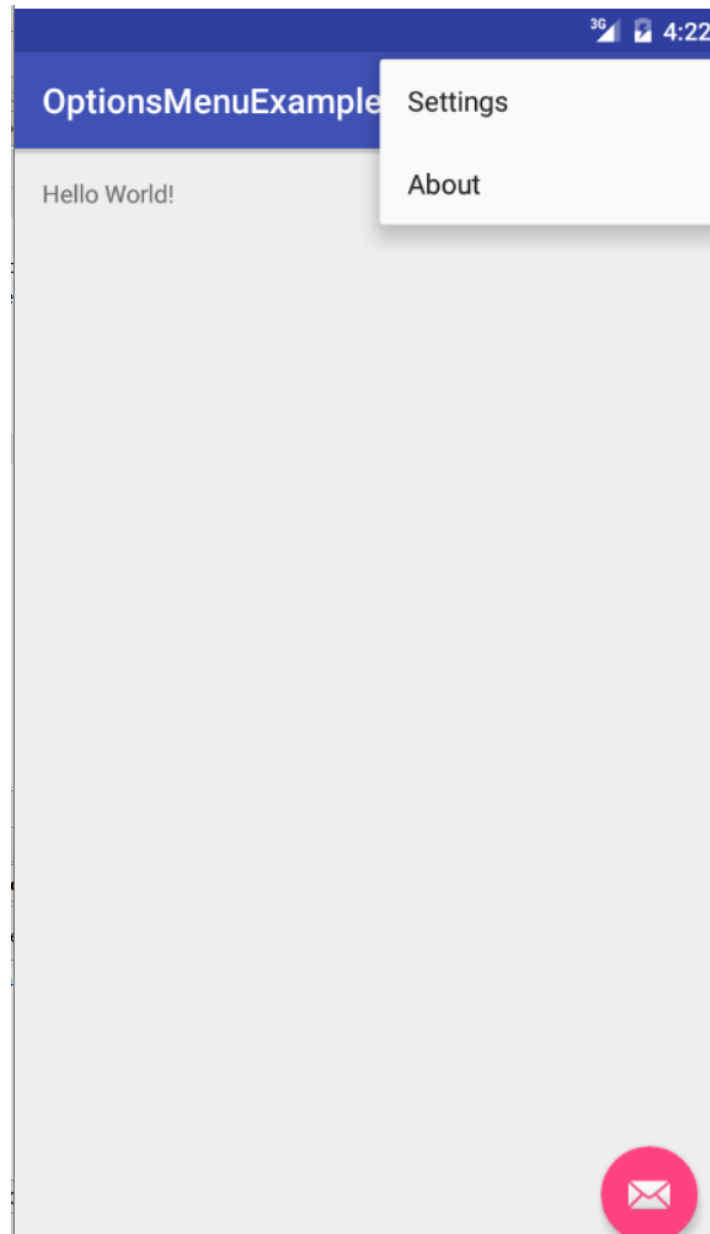
Handling the Menu Click Events

- Step 5 – Handle the menu click events
 - Needs to be done in the onOptionsItemSelected () method

@Override

```
public boolean onOptionsItemSelected(MenuItem item) {  
    // Handle action bar item clicks here. The action bar will  
    // automatically handle clicks on the Home/Up button, so long  
    // as you specify a parent activity in AndroidManifest.xml.  
    int id = item.getItemId();  
  
    switch (id) {  
        case R.id.action_settings:  
            Toast.makeText(this, "Selected settings", Toast.LENGTH_SHORT).show();  
            return true;  
        case R.id.action_about:  
            Toast.makeText(this, "Selected about", Toast.LENGTH_SHORT).show();  
            return true;  
    }  
  
    return super.onOptionsItemSelected(item);  
}
```

The End Result



Let's Try It Out



- Add an about action to the main menu of the Main Activity
- Create intent to show about activity in `onOptionsItemSelected(...)`
 - Create an about activity if you don't have one yet
- Remove your old About button if you still have it

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Creating a Context Menu

Creating a Context Menu

- Check out <http://developer.android.com/guide/topics/ui/menus.html#context-menu>