# P82 Mobile Application Development - Android

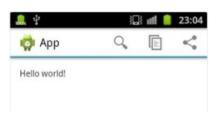
#### Menus

- There are basically 3 types of menu
  - Menus activated by the menu key
     Only exists on old phones
     Android 2.3 or lower
  - Contextual menus
     The user must make a long press



The ActionBar
 Three bar or icons appear in the activity title





## Context menu (no example)

- ♦ A context menu is triggered by a LongClick on an interface element and is associated with this element
- ◆ The graphic composition of the menu is defined in an XML file (under /res/menu)
- ♦ In the onCreate of the activity, we give to the component View the listener of ContextMenu, example:

linearL.setOnCreateContextMenuListener (this);

# Using the ActionBar

```
Create the layout in the resources:
<menu xmlns:android="http://schemas.android.com/apk/res/android"</pre>
     xmlns:app="http://schemas.android.com/apk/res-auto"
     xmlns:tools="http://schemas.android.com/tools"
     tools:context=".MainActivity">
<item
     android:id="@+id/action Start"
     android:orderInCategory="100"
     android:title="Start"
     app:showAsAction="always"/>
<item
     android:id="@+id/action quit"
     android:icon="@drawable/guatemala"
     android:orderInCategory="100"
     android:title="quitter"
     app:showAsAction="always" />
<item
     android:id="@+id/action pause"
     android:orderInCategory="100"
     android:title="pause"
     app:showAsAction="never" />
</menu>
```

#### ActionBar

- The main attributes
  - id
  - Title: text to be displayed
  - Icon: image to display if it is necessary
  - app:showAsAction: if in the three points or on the title bar
    - **ifRoom**: if there is room
    - Withtext: add text too
    - Never: stays in the three points
    - always

#### Conditions

Since API7 or higher

```
    Must indicate a theme with an ActionBar
    <a href="activity"><a href="activity">activity<a hr
```

- Activity must be inherited from ActionBarActivity or from AppCompatActivity
- Obviously your activity must have a title bar

### Java Side

Two methods to redefine:

```
@Override
public boolean onCreateOptionsMenu (menu menu) {
    //retrieve the menu from the XML
    getMenuInflater().inflate (R.menu.menu_main,menu);
    return true;
}
```

@Override public boolean onOptionsItemSelected (MenuItem item) {....}

To define actions when clicking on the options from the menu

### Java side menus

```
@Override
public boolean onOptionsItemSelected(MenuItem item)
  String msg = null;
  switch (item.getItemId()) {
     case R.id. action start:
               msg = "Start";
       break;
     case R.id.action_pause:
       msg = "Pause";
       break;
     case R.id.action quit:
       msg = "Quit";
       break;
     Toast.makeText(getBaseContext(), msg,
Toast.LENGTH_SHORT).show();
  return true;
```

#### Links for more information

- http://developer.android.com/guide/topics/ui/ac tionbar.html (more info on actionBar)
- http://openclassrooms.com/courses/creezdes- applications-pour-android/gestion-desmenus- de-l-application (touch menu)