

ActionBar Activity

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Description

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Not a "classical" activity



No full screen mode



Some informations stay visible

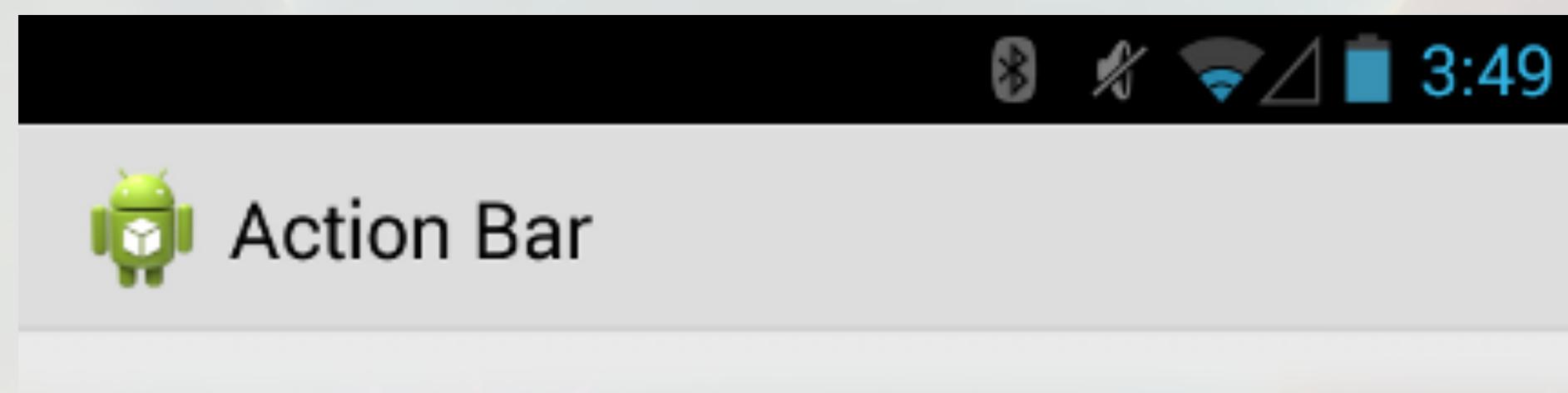
▶ **Time**

▶ **Battery**

▶ **Connectivity**



Presents contextual informations: title, icon, ...



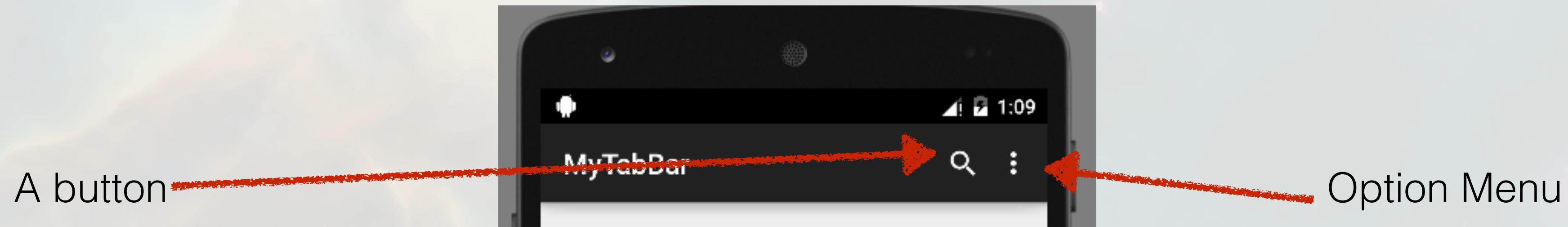
Easily configurable

▶ **Add buttons**

▶ **Add menus**

Adding Buttons

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Adding a button is simple

- Just modify res/menu/menu_main.xml

```
<item android:id="@+id/action_settings_promote"
      android:title="@string/action_settings"
      android:icon="@drawable/abc_ic_search_api_mtrl_alpha"
      android:orderInCategory="100"
      app:showAsAction="ifRoom" />
```

- Order them by importance
- Buttons may be displayed only if rooms are available otherwise they are displayed with their names in the Option Menu

Order Buttons

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Automatic layout for buttons according to two criteria



android:orderInCategory:

- ▶ priority between the different elements
- ▶ smallest weights are low in the hierarchy



app:showsAsAction:

- ▶ main positioning options
- ▶ always: the button must appears in the Action Bar
- ▶ never: the button will never appears
- ▶ ifroom: button may appears
 - depends on the other button
 - depends on device's screen size



Guidelines: do not force a button to be in the ActionBar

OptionMenu

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Inflate it when the user wants to inspect it

```
@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;  
}
```



Get clicks on items

```
public boolean onOptionsItemSelected(MenuItem item) {  
    // Handle action bar item clicks here.  
    int id = item.getItemId();  
    if (id == R.id.action_settings)  
        return true;  
    return super.onOptionsItemSelected(item);  
}
```

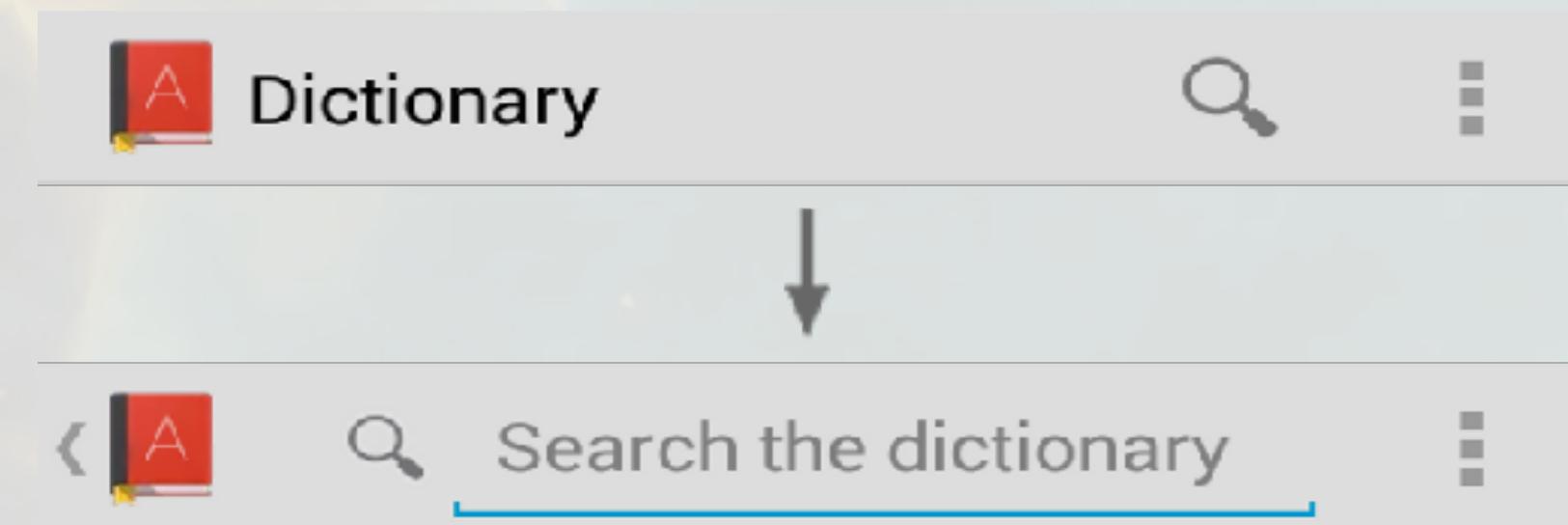
Sophisticated Buttons

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ActionsViews

- View is changing when we click the button



- Use a SearchView

```
<item android:id="@+id/action_search"
    android:title="@string/action_search"
    android:icon="@drawable/ic_action_search"
    app:showAsAction="ifRoom|collapseActionView"
    app:actionViewClass="android.support.v7.widget.SearchView"
/>
```



Move a button, if necessary, i.e. if a button requires space

How to manipulate an ActionView

```
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.menu_main, menu);
    SearchView searchView =
        (SearchView)menu.findItem(R.id.action_search).getActionView();
    searchView.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            // Click when view is expanded ...
        }
    });
    searchView.setOnQueryTextListener(new SearchView.OnQueryTextListener() {
        @Override
        public boolean onQueryTextSubmit(String s) {
            // Submit Text ...
            return false;
        }
        @Override
        public boolean onQueryTextChange(String s) {
            // Detect that the text has changed ..
            return false;
        }
    });
    return true;
}
```

Even more complex buttons

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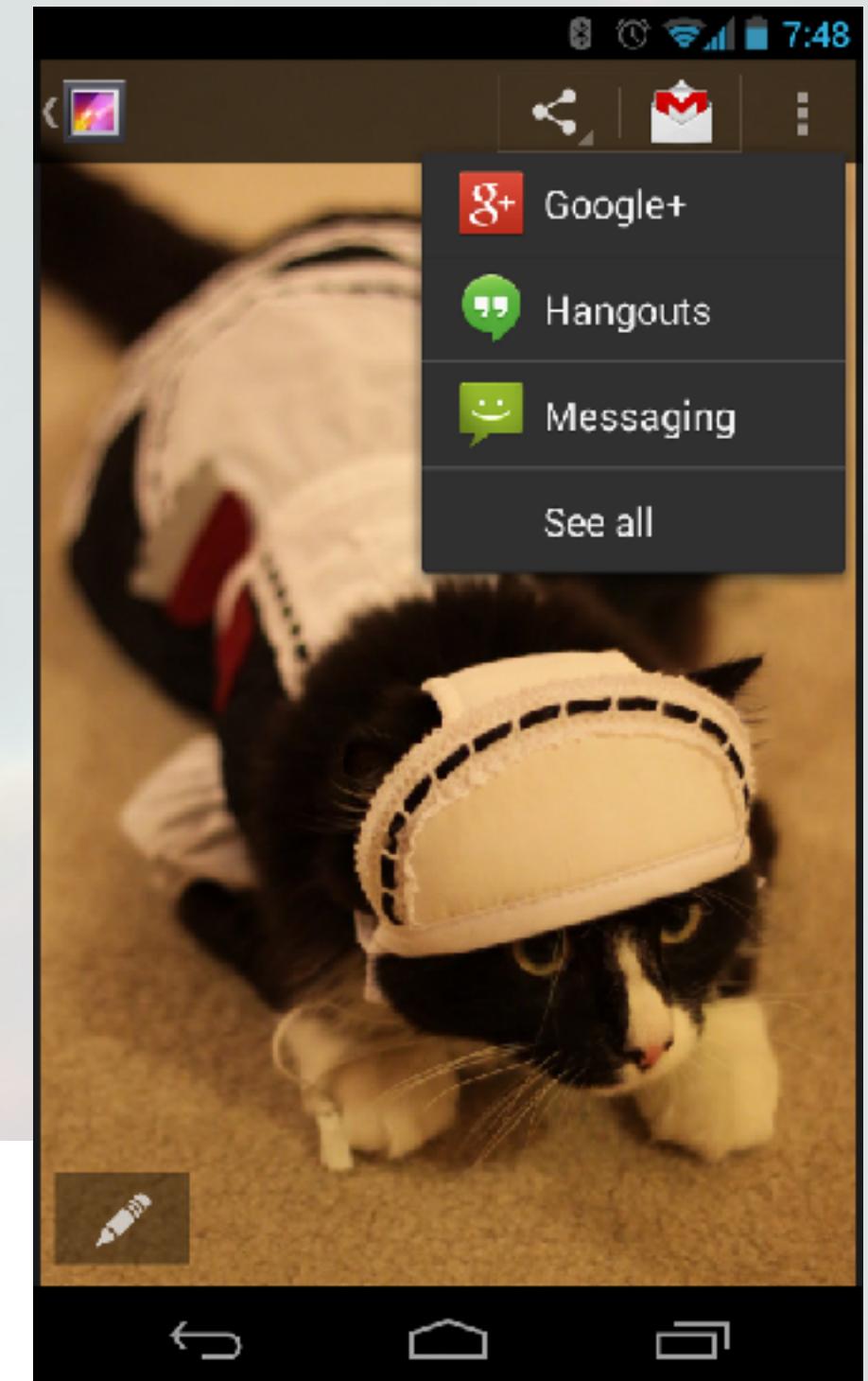
Action Providers

- Close to ActionViews
- Can have their own layout
- Overlap all current actions
- Trigger other Activities



Add the new menu

```
<item  
    android:id="@+id/action_share"  
    android:title="Share"  
    app:showAsAction="ifRoom|collapseActionView"  
    pp:actionProviderClass=  
        "android.support.v7.widget.ShareActionProvider" />
```



Manipulate ActionProvider

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Build the intent you want to launch

```
private Intent getDefaultShareIntent() {  
    Intent intent = new Intent(Intent.ACTION_SEND);  
    intent.setType("text/plain");  
    intent.putExtra(Intent.EXTRA_SUBJECT, "SUBJECT");  
    intent.putExtra(Intent.EXTRA_TEXT, "Extra Text");  
    return intent;  
}
```



Launch it in the onCreateOptionsMenu

```
@Override  
public boolean onCreateOptionsMenu(Menu menu) {  
    MenuItem item = menu.findItem(R.id.menu_share);  
    provider = (ShareActionProvider)  
        MenuItemCompat.getActionProvider(item);  
    provider.setShareIntent(getDefaultShareIntent());  
    return super.onCreateOptionsMenu(menu);  
}
```



ActionBarActivity helps to customize your Application

- 📍 Add menus
- 📍 Add ContentProvider



Integration of Fragments is possible

- 📍 Helps to create dynamic views
- 📍 Add scrolling effect or reusable components



Building its own ActionProvider

- 📍 Only specify the onCreateActionView method



Before API 21, stack bar action helps to build Bar with tabs



