

Android UI Dialog

Topics

- What is a Dialog?
- AlertDialog
- ProgressDialog
- Creating a custom Dialog

What is a Dialog?

- A dialog is usually a small window that appears in front of the current Activity.
- The underlying Activity loses focus and the dialog accepts all user interaction.
- Dialogs are normally used for notifications and short activities that directly relate to the application in progress.

Types of Dialog

- AlertDialog
- ProgressDialog
- DatePickerDialog
- TimePickerDialog

AlertDialog

What is AlertDialog?

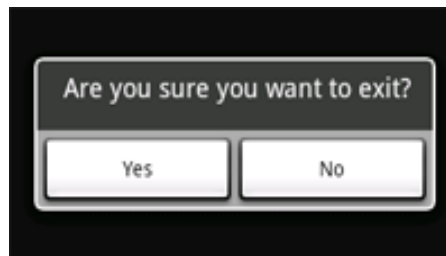
- An *AlertDialog* is an extension of the *Dialog* class.
- It is capable of constructing most dialog user interfaces and is the suggested dialog type.
- You should use it for dialogs that use any of the following features
 - > A title
 - > A text message
 - > One, two, or three buttons
 - > A list of selectable items (with optional checkboxes or radio buttons)

How to Create AlertDialog?

- Get a Builder with *AlertDialog.Builder(Context)* and then use the class's public methods to define all of the AlertDialog properties.
- After you're done with the Builder, retrieve the AlertDialog object with `create()`

Adding Buttons to AlertDialog

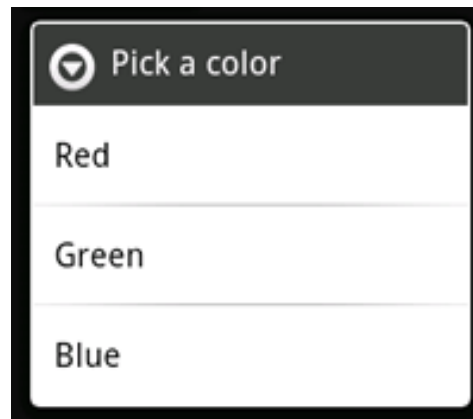
```
AlertDialog.Builder builder = new AlertDialog.Builder(this);
builder.setMessage("Are you sure you want to exit?")
    .setCancelable(false)
    .setPositiveButton("Yes", new DialogInterface.OnClickListener() {
        public void onClick(DialogInterface dialog, int id) {
            MainActivity.this.finish();
        }
    })
    .setNegativeButton("No", new DialogInterface.OnClickListener() {
        public void onClick(DialogInterface dialog, int id) {
            dialog.cancel();
        }
    });
AlertDialog alert = builder.create();
```



Adding a list to AlertDialog

```
final CharSequence[] items = {"Red", "Green", "Blue"};

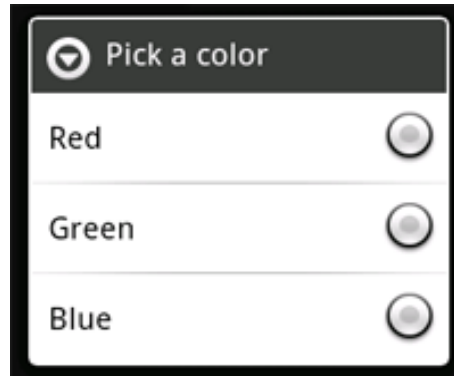
AlertDialog.Builder builder = new AlertDialog.Builder(this);
builder.setTitle("Pick a color");
builder.setItems(items, new DialogInterface.OnClickListener() {
    public void onClick(DialogInterface dialog, int item) {
        Toast.makeText(getApplicationContext(), items[item],
            Toast.LENGTH_SHORT).show();
    }
});
AlertDialog alert = builder.create();
```



Adding checkboxes and radio buttons

```
final CharSequence[] items = {"Red", "Green", "Blue"};

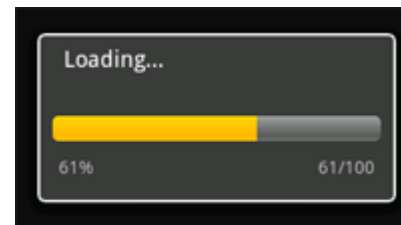
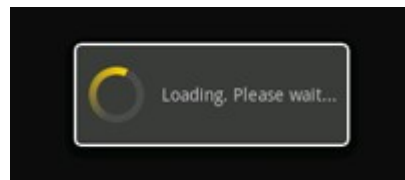
AlertDialog.Builder builder = new AlertDialog.Builder(this);
builder.setTitle("Pick a color");
builder.setSingleChoiceItems(items, -1, new
DialogInterface.OnClickListener() {
    public void onClick(DialogInterface dialog, int item) {
        Toast.makeText(getApplicationContext(), items[item],
            Toast.LENGTH_SHORT).show();
    }
});
AlertDialog alert = builder.create();
```



ProgressDialog

What is ProgressDialog?

- A ProgressDialog is an extension of the AlertDialog class that can display a progress animation in the form of
 - > a spinning wheel, for a task with progress that's undefined, or
 - > a progress bar, for a task that has a defined progression.
- The dialog can also provide buttons, such as one to cancel a download.



Creating a Progress Bar?

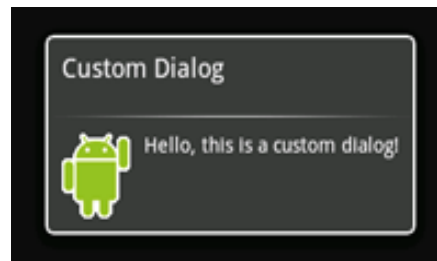
```
ProgressDialog progressDialog;  
progressDialog = new ProgressDialog(mContext);  
progressDialog.setProgressStyle(ProgressDialog.STYLE_HORIZONTAL);  
progressDialog.setMessage("Loading...");  
progressDialog.setCancelable(false);
```

Creating a Custom Dialog

Steps for Creating a Custom Dialog

- Step #1 - Create an XML layout
- Step #2 - Set the above layout as the dialog's content view and define the content for the view elements
- Step #3 - Show the dialog

Suppose we want to create a Custom dialog as shown below



Step #1: Create XML Layout

```
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/layout_root"
    android:orientation="horizontal"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:padding="10dp"
    >
    <ImageView android:id="@+id/image"
        android:layout_width="wrap_content"
        android:layout_height="fill_parent"
        android:layout_marginRight="10dp"
        />
    <TextView android:id="@+id/text"
        android:layout_width="wrap_content"
        android:layout_height="fill_parent"
        android:textColor="#FFF"
        />
</LinearLayout>
```


Step #2: Create Dialog

```
Context mContext = getApplicationContext();  
Dialog dialog = new Dialog(mContext);
```

```
dialog.setContentView(R.layout.custom_dialog);  
dialog.setTitle("Custom Dialog");
```

```
TextView text = (TextView) dialog.findViewById(R.id.text);  
text.setText("Hello, this is a custom dialog!");  
ImageView image = (ImageView) dialog.findViewById(R.id.image);  
image.setImageResource(R.drawable.android);
```

Thank you