

Android UI Dialog

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“Learn with Passion!”



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Topics

- What is a Dialog?
- Dialog Types
 - > AlertDialog
 - > PickerDialog
 - > ProgressDialog

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.

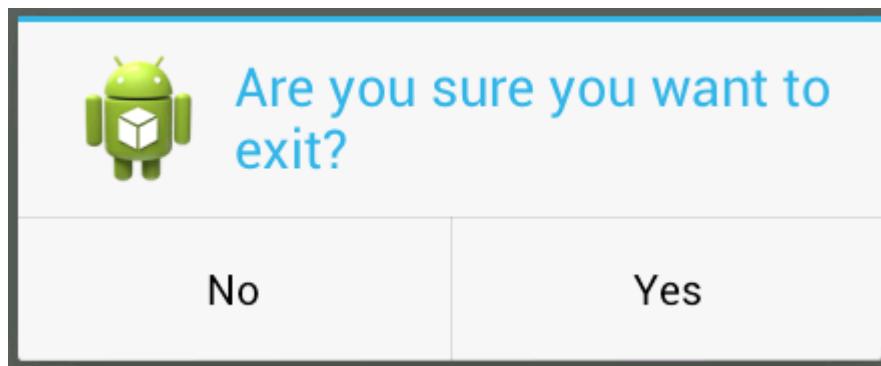
AlertDialog

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)
 - > Custom xml format

How to Create AlertDialog?

- Add class which extends DialogFragment
 - > Class MyAlertDialogFrag extends DialogFragment
- Show dialog of the DialogFragment class
 - > MyAlertDialogFrag dlg =
MyAlertDialogFrag.newInstance(title)
- Have functions for positive, negative, neutral callbacks



DialogFragment class #1

```
public static MyAlertDialogFragment newInstance(int title) {  
    MyAlertDialogFragment frag = new MyAlertDialogFragment();  
    Bundle args = new Bundle();  
    args.putInt("title", title);  
    frag.setArguments(args);  
    return frag;  
}
```

@Override

```
public void onCreateDialog(Bundle savedInstanceState) {  
    int title = getArguments().getInt("title");
```

```
    return new AlertDialog.Builder(getActivity())  
        .setIcon(R.drawable.ic_launcher)  
        .setTitle(title)  
        .setPositiveButton(R.string.action_yes,  
            new DialogInterface.OnClickListener() {  
                public void onClick(DialogInterface dialog, int id) {  
                    ((MainActivity) getActivity())  
                        .doPositiveClick();  
                }  
            })
```

**Callback for
positive click**

DialogFragment class #2

```
.setNegativeButton(R.string.action_no,  
    new DialogInterface.OnClickListener() {  
        public void onClick(DialogInterface dialog, int which) {  
            ((MainActivity) getActivity())  
                .doNegativeClick();  
        }  
    }).create();  
}
```

Callback for
negative click

MainActivity callback action functions:

```
public void doPositiveClick() {
```

```
    ...  
}
```

```
public void doNegativeClick() {
```

```
    ...  
}
```

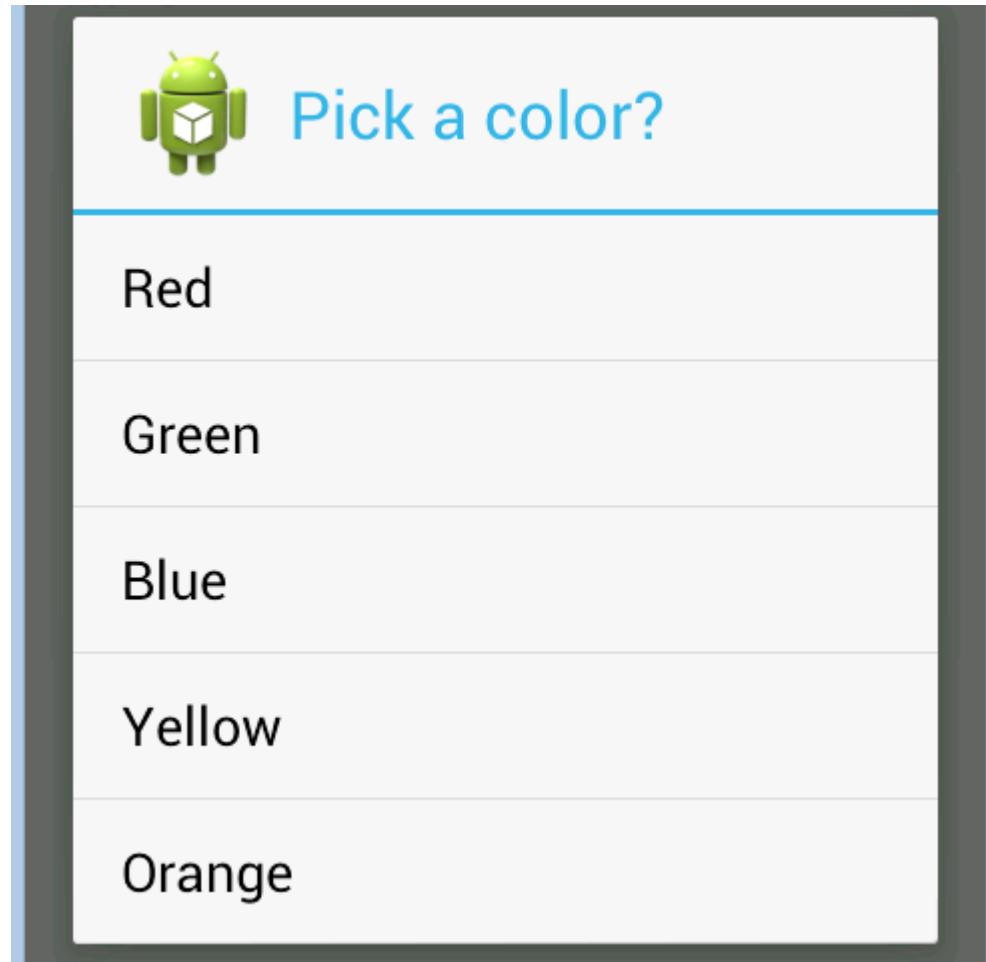
Adding a AlertDialog List

DialogFragment SetItems:

```
public void onCreateDialog(Bundle savedInstanceState) {  
    int title = getArguments().getInt("title");  
    int arrayResource = getArguments().getInt("array");  
  
    return new AlertDialog.Builder(getActivity())  
        .setIcon(R.drawable.ic_launcher)  
        .setTitle(title)  
        .setItems(arrayResource,  
            new DialogInterface.OnClickListener() {  
                public void onClick(DialogInterface dialog, int which) {  
                    ((MainActivity) getActivity())  
                        .doListClick(which);  
                }  
            }).create();  
}
```

**Set List
Onto SetItems**

AlertDialog List Sample Pick Color



Add AlertDialog Checkbox List Sample Pick Color

```
public Dialog onCreateDialog(Bundle savedInstanceState) {  
    int title = getArguments().getInt("title");  
    int arrayResource = getArguments().getInt("array");  
    return new AlertDialog.Builder(getActivity())  
        .setIcon(R.drawable.ic_launcher)  
        .setTitle(title)  
        .setMultiChoiceItems(arrayResource, null,  
            new DialogInterface.OnMultiChoiceClickListener() {  
                public void onClick(DialogInterface dialog,  
                    int which, boolean isChecked) {  
                    ((MainActivity) getActivity())  
                        .doListItemClick(which, isChecked);  
                }  
            })  
        .setPositiveButton(R.string.ok,  
            new DialogInterface.OnClickListener() {  
                @Override  
                public void onClick(DialogInterface dialog, int id) {  
                    ((MainActivity) getActivity()).doOkClick();  
                }  
            })  
        .setNegativeButton(R.string.cancel,  
            new DialogInterface.OnClickListener() {  
                @Override  
                public void onClick(DialogInterface dialog, int id) {  
                }  
            }).create();  
}
```

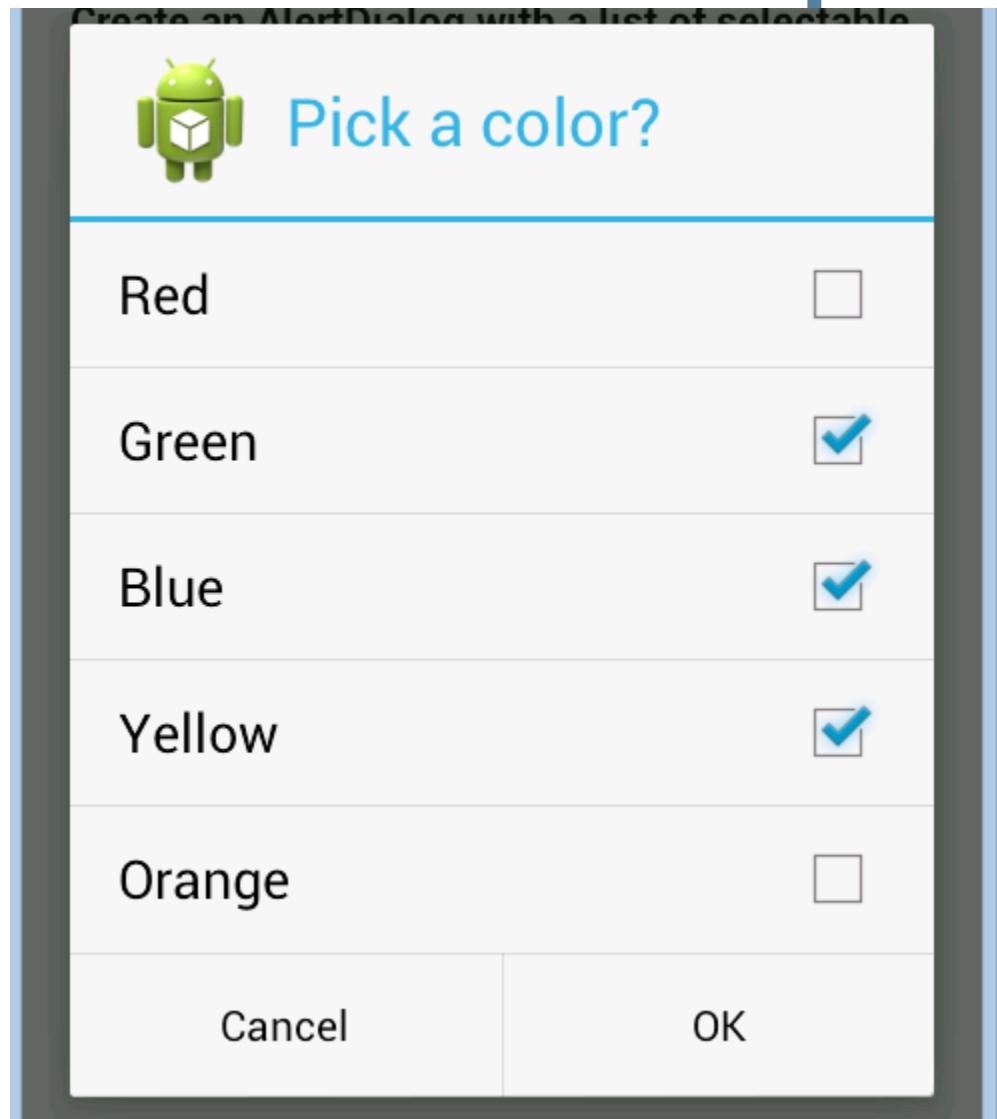
Checkbox
List

Ok

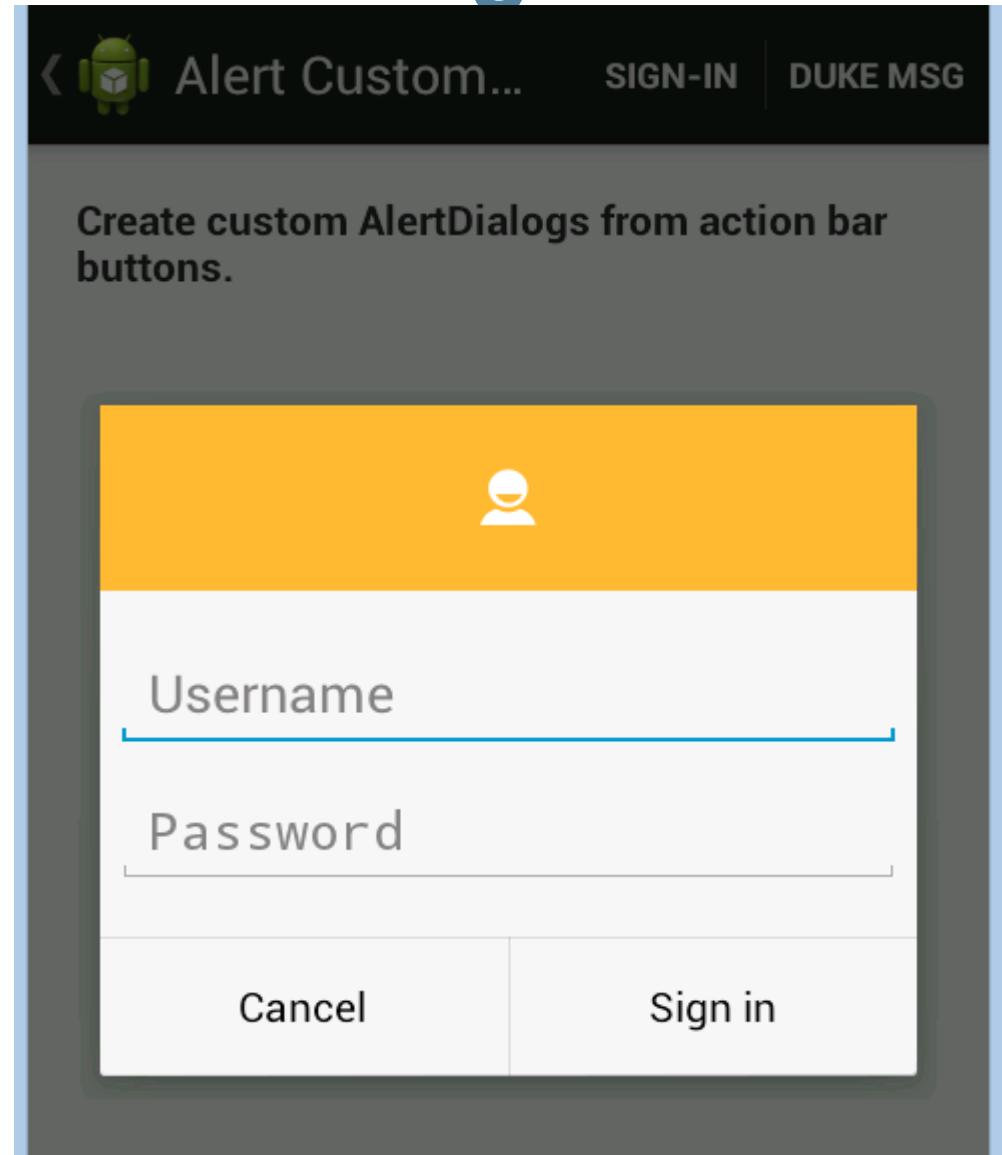
Cancel

AlertDialog Checkbox List Sample

Pick Color



AlertDialog Custom Dialog



AlertDialog Custom Dialog

```
return new AlertDialog.Builder(getActivity())
    .setView(inflater.inflate(R.layout.dialog_signin, null))
    // Set the action buttons
    .setPositiveButton(R.string.signin,
        new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int id) {
                ((MainActivity) getActivity())
                    .doOkClick();
            }
        })
    .setNegativeButton(R.string.cancel,
        new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int id) {
            }
        })
).create();
```

Xml Dialog
Format

AlertDialog Custom Dialog Xml

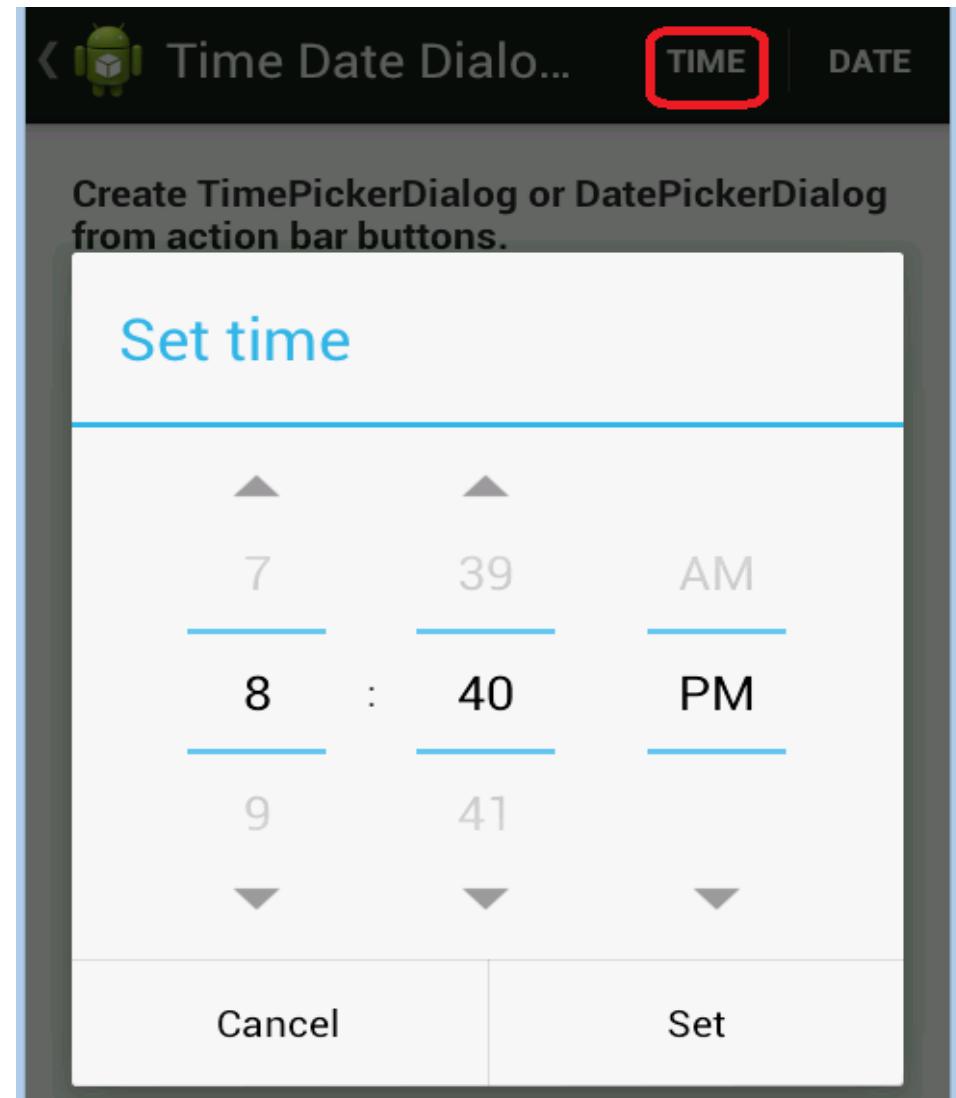
```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    android:orientation="vertical"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content" >  
  
<ImageView  
    android:src="@drawable/ic_action_user"  
    android:layout_width="match_parent"  
    android:layout_height="64dp"  
    android:scaleType="center"  
    android:background="#FFFFBB33"  
    android:contentDescription="@string/app_name" />  
  
<EditText  
    android:id="@+id/username"  
    android:inputType="textEmailAddress"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="16dp"  
    android:layout_marginLeft="4dp"  
    android:layout_marginRight="4dp"  
    android:layout_marginBottom="4dp"  
    android:text="@string/username" />  
  
...
```

PickerDialog

Picker Dialog for Time

DialogFragment Implements

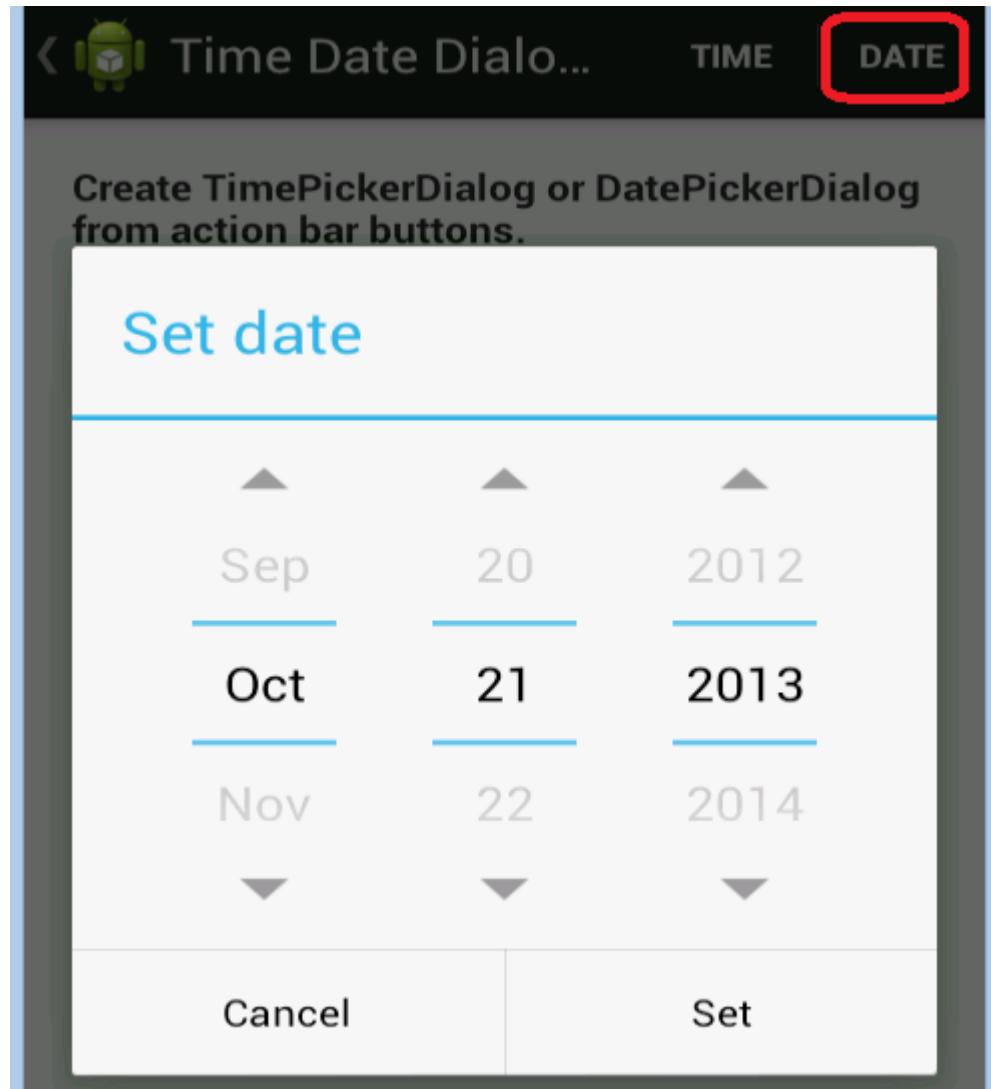
TimePickerDialog.OnTimeSetListener



Picker Dialog for Date

DialogFragment Implements

`DatePickerDialog.OnDateSetListener`

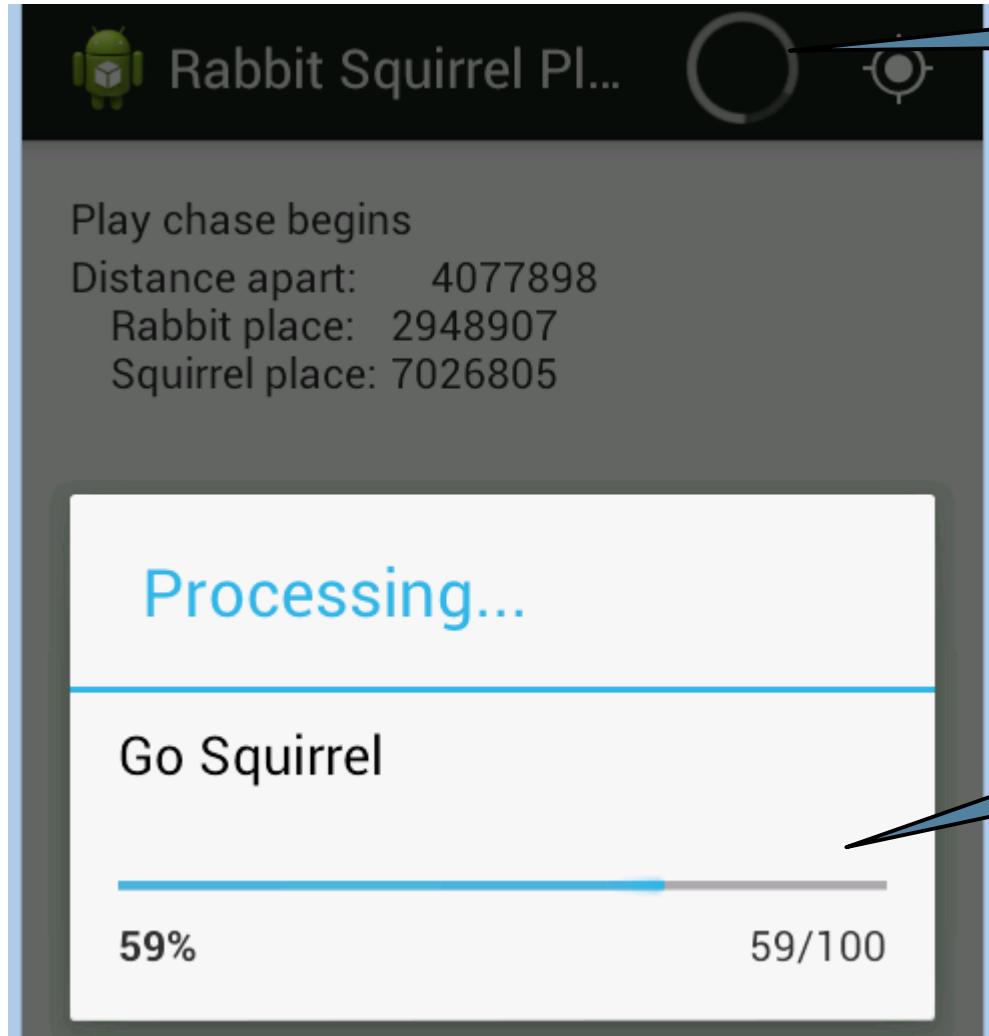


ProgressDialog

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.

Progress Dialog



Progress
Wheel

Progress
Bar

Thank you!

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