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Spinner

Spinner is a widget similar to a drop-down list for selecting items.

In this tutorial, you'll create a simple spinner widget that displays a list of planets. When one is selected, a toast message will display the selected item.

- 1. Start a new project named HelloSpinner.
- 2. Open the res/layout/main.xml file and insert the following:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:orientation="vertical"
    android:padding="10dip"
    android:layout width="fill parent"
    android:layout_height="wrap_content">
    <TextView
        android:layout width="fill parent"
        android:layout height="wrap content"
        android:layout_marginTop="10dip"
        android:text="@string/planet prompt"
    />
    <Spinner
        android:id="@+id/spinner"
        android:layout_width="fill_parent"
        android:layout height="wrap content"
        android:prompt="@string/planet prompt"
    />
</LinearLayout>
```

Notice that the <u>TextView</u>'s android:text attribute and the <u>Spinner</u>'s android:prompt attribute both reference the same string resource. This text behaves as a title for the widget. When applied to the <u>Spinner</u>, the title text will appear in the selection dialog that appears upon selecting the widget.

3. Create a strings.xml file in res/values/ and edit the file to look like this:

The <string> element defines the title string referenced by the <u>TextView</u> and <u>Spinner</u> in the layout above. The <string-array element defines the list of strings that will be displayed as the list in the <u>Spinner</u> widget.

4. Now open the HelloSpinner.java file and insert the following code for the onCreate() method:

After the main.xml layout is set as the content view, the Spinner widget is captured from the layout with findViewById(int). The createFromResource() method then creates a new ArrayAdapter, which binds each item in the string array to the initial appearance for the Spinner (which is how each item will appear in the spinner when selected). The R.array.planets_array ID references the string-array defined above and the android.R.layout.simple_spinner_item ID references a layout for the standard spinner appearance, defined by the platform. Then setDropDownViewResource(int) is called to define the appearance for each item when the widget is opened (simple_spinner_dropdown_item is another standard layout defined by the platform). Finally, the ArrayAdapter is set to associate all of its items with the Spinner by calling setAdapter (T).

5. Now create a nested class that implements AdapterView.OnItemSelectedListener. This will provide a callback method that will notify your application when an item has been selected from the Spinner. Here's what this class should look like:

The <u>AdapterView.OnItemSelectedListener</u> requires the <u>onItemSelected()</u> and <u>onNothingSelected()</u> callback methods. The former is called when an item from the <u>AdapterView</u> is selected, in which case, a short <u>Toast</u> message displays the selected text; and the latter is called when a selection disappears from the <u>AdapterView</u>, which doesn't happen in this case, so it's ignored.

6. Now the MyOnItemSelectedListener needs to be applied to the Spinner. Go back to the onCreate() method and add the following line to the end:

```
spinner.setOnItemSelectedListener(new MyOnItemSelectedListener());
```

This creates a new anonymous instance of the MyOnItemSelectedListener and sets it as the listener for the Spinner.

7. Run the application.

It should look like this:



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