

Pickers

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Key classes

- DatePickerDialog
- TimePickerDialog
- DialogFragment

See also

> Fragments

Android provides controls for the user to pick a time or pick a date as ready-to-use dialogs. Each picker provides controls for selecting each part of the time (hour, minute, AM/PM) or date (month, day, year). Using these pickers helps ensure that your users can pick a time or date that is valid, formatted correctly, and adjusted to the user's locale.





We recommend that you use DialogFragment to host each time or date picker. The DialogFragment manages the dialog lifecycle for you and allows you to display the pickers in different layout configurations, such as in a basic dialog on handsets or as an embedded part of the layout on large screens.

Although DialogFragment was first added to the platform in Android 3.0 (API level 11), if your app supports versions of Android older than 3.0—even as low as Android 1.6—you can use the DialogFragment class that's available in the support library for backward compatibility.

Note: The code samples below show how to create dialogs for a time picker and date picker using the support library APIs for DialogFragment. If your app's minSdkVersion is 11 or higher, you can instead use the platform version of DialogFragment.

Creating a Time Picker

To display a TimePickerDialog using DialogFragment, you need to define a fragment class that extends DialogFragment and return a TimePickerDialog from the fragment's onCreateDialog() method.

Note: If your app supports versions of Android older than 3.0, be sure you've set up your Android project with the support library as described in Setting Up a Project to Use a Library.

Extending DialogFragment for a time picker

To define a DialogFragment for a TimePickerDialog, you must:

- Define the onCreateDialog() method to return an instance of TimePickerDialog
- Implement the TimePickerDialog.OnTimeSetListener interface to receive a callback when the user sets the time.

Here's an example:

See the TimePickerDialog class for information about the constructor arguments.

Now all you need is an event that adds an instance of this fragment to your activity.

Showing the time picker

Once you've defined a DialogFragment like the one shown above, you can display the time picker by creating an instance of the DialogFragment and calling show().

For example, here's a button that, when clicked, calls a method to show the dialog:

```
<Button
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="@string/pick_time"
   android:onClick="showTimePickerDialog" />
```

When the user clicks this button, the system calls the following method:

```
public void showTimePickerDialog(View v) {
    DialogFragment newFragment = new TimePickerFragment();
    newFragment.show(getSupportFragmentManager(), "timePicker");
}
```

This method calls show() on a new instance of the DialogFragment defined above. The show() method requires an instance of FragmentManager and a unique tag name for the fragment.

Caution: If your app supports versions of Android lower than 3.0, be sure that you call <code>getSupportFragmentManager()</code> to acquire an instance of <code>FragmentManager</code>. Also make sure that your activity that displays the time picker extends <code>FragmentActivity</code> instead of the standard <code>Activity</code> class.

Creating a Date Picker

Creating a DatePickerDialog is just like creating a TimePickerDialog. The only difference is the dialog you create for the fragment.

To display a DatePickerDialog using DialogFragment, you need to define a fragment class that extends DialogFragment and return a DatePickerDialog from the fragment's onCreateDialog() method.

Extending DialogFragment for a date picker

To define a DialogFragment for a DatePickerDialog, you must:

- Define the onCreateDialog() method to return an instance of DatePickerDialog
- Implement the DatePickerDialog.OnDateSetListener interface to receive a callback when the user sets the date.

Here's an example:

See the DatePickerDialog class for information about the constructor arguments.

Now all you need is an event that adds an instance of this fragment to your activity.

Showing the date picker

Once you've defined a DialogFragment like the one shown above, you can display the date picker by creating an instance of the DialogFragment and calling show().

For example, here's a button that, when clicked, calls a method to show the dialog:

```
<Button
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="@string/pick_date"
   android:onClick="showDatePickerDialog" />
```

When the user clicks this button, the system calls the following method:

```
public void showDatePickerDialog(View v) {
    DialogFragment newFragment = new DatePickerFragment();
    newFragment.show(getSupportFragmentManager(), "datePicker");
}
```

This method calls show() on a new instance of the DialogFragment defined above. The show() method requires an instance of FragmentManager and a unique tag name for the fragment.