

Creating Custom Views

The Android framework has a large set of [View](#) ([/reference/android/view/View.html](#)) classes for interacting with the user and displaying various types of data. But sometimes your app has unique needs that aren't covered by the built-in views. This class shows you how to create your own views that are robust and reusable.

Lessons

Creating a View Class

Create a class that acts like a built-in view, with custom attributes and support from the [ADT](#) layout editor.

Custom Drawing

Make your view visually distinctive using the Android graphics system.

Making the View Interactive

Users expect a view to react smoothly and naturally to input gestures. This lesson discusses how to use gesture detection, physics, and animation to give your user interface a professional feel.

Optimizing the View

No matter how beautiful your UI is, users won't love it if it doesn't run at a consistently high frame rate. Learn how to avoid common performance problems, and how to use hardware acceleration to make your custom drawings run faster.

DEPENDENCIES AND PREREQUISITES

- Android 2.1 (API level 7) or higher

YOU SHOULD ALSO READ

- [Custom Components](#)
- [Input Events](#)
- [Property Animation](#)
- [Hardware Acceleration](#)
- [Accessibility](#) developer guide

TRY IT OUT

[Download the sample](#)

CustomView.zip