Developers

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Creating Custom Views

Get started
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

The Android framework has a large set of `View` 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.

Get started

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