

[SwiftUI](#) / Performance analysis

Performance analysis

Measure and improve your app's responsiveness.

Overview

Use Instruments to detect hangs and hitches in your app, and to analyze long view body updates and frequently occurring SwiftUI updates that can contribute to hangs and hitches.

Topics

Essentials

-  Understanding user interface responsiveness

Make your app more responsive by examining the event-handling and rendering loop.
-  Understanding hangs in your app

Determine the cause for delays in user interactions by examining the main thread and the main run loop.
-  Understanding hitches in your app

Determine the cause of interruptions in motion by examining the render loop.

Analyzing SwiftUI performance

-  Understanding and improving SwiftUI performance

Identify and address long-running view updates, and reduce the frequency of updates.

See Also

Tool support

- ☰ Previews in Xcode

Generate dynamic, interactive previews of your custom views.

- ☰ Xcode library customization

Expose custom views and modifiers in the Xcode library.