

Xcode, Simulator, Difference between Emulator and Simulator

<https://github.com/jryz101/Calculator-App-Swift-4.2> - calculator app to download (Mac users)

[Link to .app file](#)

[Link to .crash file](#)

[Debugging in Xcode 11](#) - video from WWDC 2018

[Understanding Crashes and Crash Logs](#) - video from WWDC 2018

[simctl: Control iOS Simulators from Command Line](#) - tutorial

[iOS simulator command line tricks](#) - another one

[Difference between Emulator and Simulator](#)

[Working with simulator from command line](#)

[How-To Video Recordings](#)

Difference between Emulator and Simulator

[Read about simulator](#) - from apple.com and more [here](#). And this is why we can't install .ipa and need .app file

[Emulator overview](#) - from android.com, scroll to the bottom for Limitations part

[Mobile Device Emulator and Simulator vs Real Device](#) - from SouceLabs

Working with simulator from command line

You may set alias for commands in your .bash_profile or .zprofile as below:

```
alias simDevices="xcrun simctl list"
```

```
tanya@Tanyas-MacBook-Pro ~ % xcrun simctl help
```

For subcommands that require a <device> argument, you may specify a device UDID or the special "booted" string which will cause simctl to pick a booted device. If multiple devices are booted when the "booted" device is selected, simctl will choose one of them.

Subcommands:

create	Create a new device.
clone	Clone an existing device.
upgrade	Upgrade a device to a newer runtime.
delete	Delete specified devices, unavailable devices, or all devices. <i>They have a typo;</i>
pair	Create a new watch and phone pair.
unpair	Unpair a watch and phone pair.
pair_activate	Set a given pair as active.
erase	Erase a device's contents and settings.
boot	Boot a device.
shutdown	Shutdown a device.
rename	Rename a device.
getenv	Print an environment variable from a running device.
openurl	Open a URL in a device.
addmedia	Add photos, live photos, videos, or contacts to the library of a device.
install	Install an app on a device.
uninstall	Uninstall an app from a device.
get_app_container	Print the path of the installed app's container
launch	Launch an application by identifier on a device.
terminate	Terminate an application by identifier on a device.
spawn	Spawn a process by executing a given executable on a device.
list	List available devices, device types, runtimes, or device pairs.
icloud_sync	Trigger iCloud sync on a device.
pbsync	Sync the pasteboard content from one pasteboard to another.
pbcopy	Copy standard input onto the device pasteboard.
pbpaste	Print the contents of the device's pasteboard to standard output.
help	Prints the usage for a given subcommand.
io	Set up a device IO operation.
diagnose	Collect diagnostic information and logs.
logverbose	enable or disable verbose logging for a device
status_bar	Set or clear status bar overrides

```
tanya@Tanyas-MacBook-Pro ~ % xcrun simctl getenv booted SIMULATOR_LOG_ROOT  
/Users/tanya/Library/Logs/CoreSimulator/FB6F56A4-BEF8-40BE-983A-DB3081F99FCF
```

Note: *FB6F56A4-BEF8-40BE-983A-DB3081F99FCF is the device's UDID*

How-To Video Recordings

[xcrun simctl spawn booted log stream](#) - getting logs from emulator by Portnov computer school student; use `grep <bundle_id> ro` filter

[Tracking down the app crash in Xcode](#)

[Accessing device logs and .crash files in Xcode](#)

[Installing .app on Simulator from Terminal](#)

[xcrun simctl io booted recordVideo filename.mov](#) - recording simulator screen by

Portnov computer school student

[xcrun simctl io booted screenshot filename.png](#) - recording simulator screen by

Portnov computer school student