

iOS 18

- [release notes](#)

What's new in Xcode 16

- [release notes](#)
- supports [editor.config](#) files.
 - Xcode supports the following settings: `indent_style`, `tab_width`, `indent_size`, `end_of_line`, `insert_final_newline`, `max_line_length`, and `trim_trailing_whitespace`.
- Several improvements to parallel compilation, new compile inspection tools

Swift Testing

- Modern replacement for XCTest
- Heavy use of macros and property wrappers
- Can feed test functions collections of input data, tests run in parallel
- Nice new UI to help show failures, stack trace, and memory.
- <https://developer.apple.com/xcode/swift-testing/>

Swift Packages

- Now supports running tests written using Swift Testing. To enable these tests at the command line, pass `--enable-swift-testing`.
- `swiftLanguageVersion` can be specified at the target level, allowing for gradual per-target migration to the Swift 6 language mode. (125732014)
- [SE-0301] has been implemented, allowing `Package.swift` to be edited through new package commands `add-dependency`, `add-product`, and `add-target`. See `swift package -h` for more details. (126377239)
 - `/Applications/Xcode-16.0.0-Beta.app/Contents/Developer/Toolchains/XcodeDefault.xctoolchain/usr/bin/swift`

What's new in Swift

- Functions can now specify the type of error that they throw ([typed throws \(SE-0413\)](#)) as part of the function signature. For example:

```
func parseRecord(from string: String) throws(ParseError) -> Record {
... }

extension Sequence {
    func map<T, E>(_ body: (Element) throws(E) -> T) throws(E) -> [T] {
... }
}
```

- This is compatible with Swift 5 as well as Swift 6 with some difference to inference when throws are not typed.