

Protocols

❑ What is the Protocols

- ❑ "A *protocol* defines a blueprint of methods, properties, and other requirements that suit a particular task or piece of functionality. The protocol can then be *adopted* by a class, structure, or enumeration to provide an actual implementation of those requirements. Any type that satisfies the requirements of a protocol is said to *conform* to that protocol."

Source: https://docs.swift.org/swift-book/LanguageGuide/Protocols.html#apple_ref/doc/uid/TP40014097-CH25-ID267



Protocols

- ❑ How it is used
 - ❑ Protocol syntax
 - ❑ Protocol as types
 - ❑ Protocol Requirements
 - ❑ Method requirements

Source: <https://docs.swift.org/swift-book/LanguageGuide/Protocols.html>



Protocols

- ❑ Why use protocols
 - ❑ Allows grouping
 - ❑ Objects conform
 - ❑ Less time consuming

Source: <https://www.raywenderlich.com/6742901-protocol-oriented-programming-tutorial-in-swift-5-1-getting-started#toc-anchor-002>

Delegation

- What is the Delegation
 - “Delegation is a design pattern that enables a class or structure to hand off (or delegate) some of its responsibilities to an instance of another type. ”

Source: https://docs.swift.org/swift-book/LanguageGuide/Protocols.html#apple_ref/doc/uid/TP40014097-CH25-ID276



Delegation

- ❑ How it is used in Swift
 - ❑ One object acts in the name of another object
 - ❑ Keeps reference
 - ❑ Informs the delegate of an event
 - ❑ Response

Source: <https://www.appcoda.com/swift-delegate/>



Delegation

- ❑ Why use Delegation
 - ❑ Delegation is more lightweight than subclassing
 - ❑ Delegation is useful for 1-on-1 relationships
 - ❑ Delegation is flexible

› Source: <https://learnappmaking.com/delegation-swift-how-to/#delegation>

References:

- ◉ Docs.swift.org. n.d. *Protocols — The Swift Programming Language (Swift 5.2)*. [online] Available at: <<https://docs.swift.org/swift-book/LanguageGuide/Protocols.html>> [Accessed 19 March 2020].
- ◉ Jaffee, A., 2018. *Understanding Delegates And Delegation In Swift 4*. [online] AppCoda. Available at: <<https://www.appcoda.com/swift-delegate/>> [Accessed 19 March 2020].
- ◉ Pereira, A., 2020. *Protocol-Oriented Programming Tutorial In Swift 5.1: Getting Started*. [online] raywenderlich.com. Available at: <<https://www.raywenderlich.com/6742901-protocol-oriented-programming-tutorial-in-swift-5-1-getting-started#toc-anchor-002>> [Accessed 19 March 2020].
- ◉ Vries, R., 2018. *Delegation In Swift Explained (How To) – Learnappmaking*. [online] LearnAppMaking. Available at: <<https://learnappmaking.com/delegation-swift-how-to/#delegation>> [Accessed 19 March 2020].