

MVVM

MVVM

⌚ Model-View-ViewModel

A “code organizing” architectural design paradigm.

Works in concert with the concept of “reactive” user-interfaces.

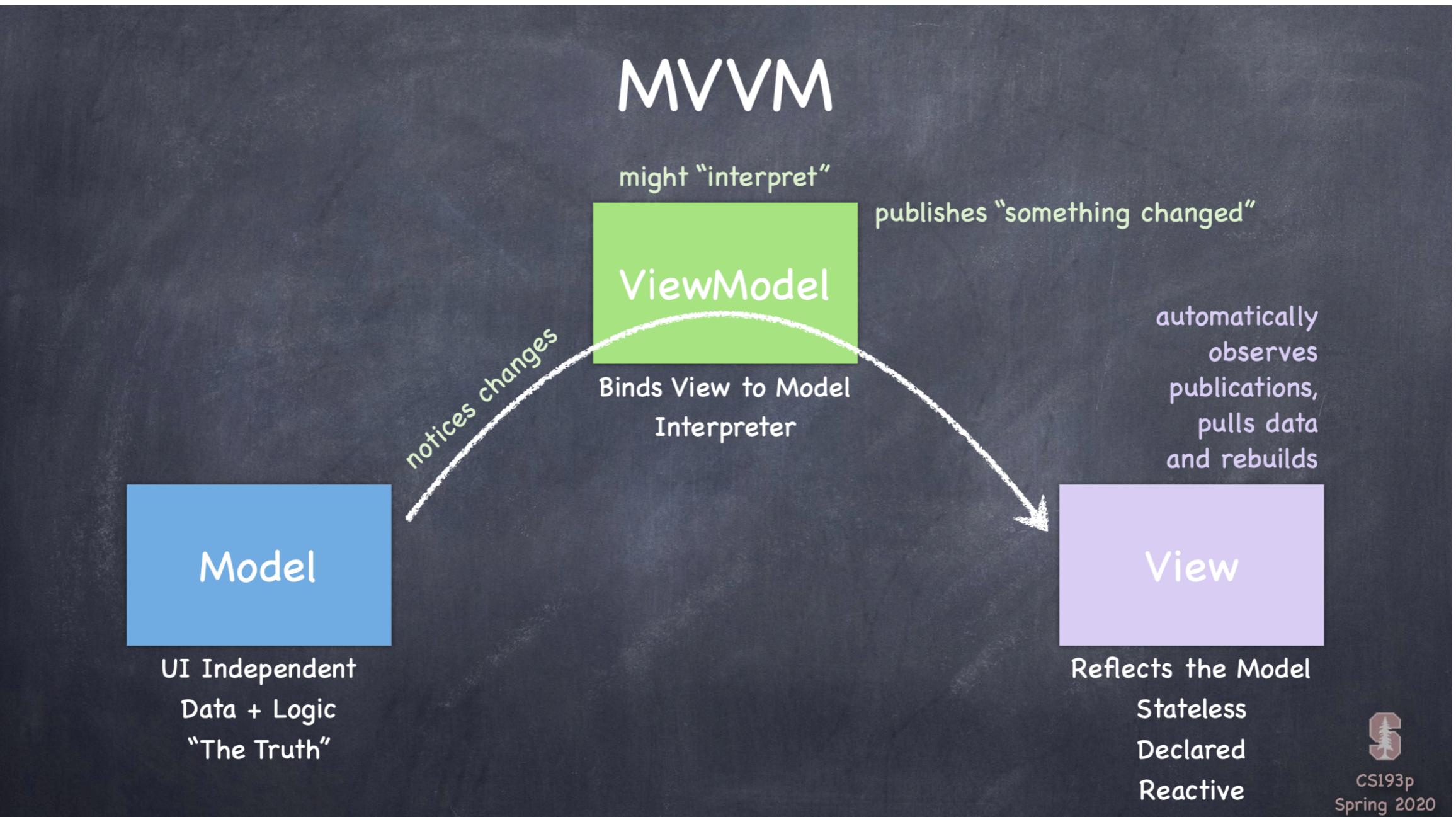
Must be adhered to for SwiftUI to work.

It is different from MVC (Model View Controller) that UIKit (old-style iOS) uses.

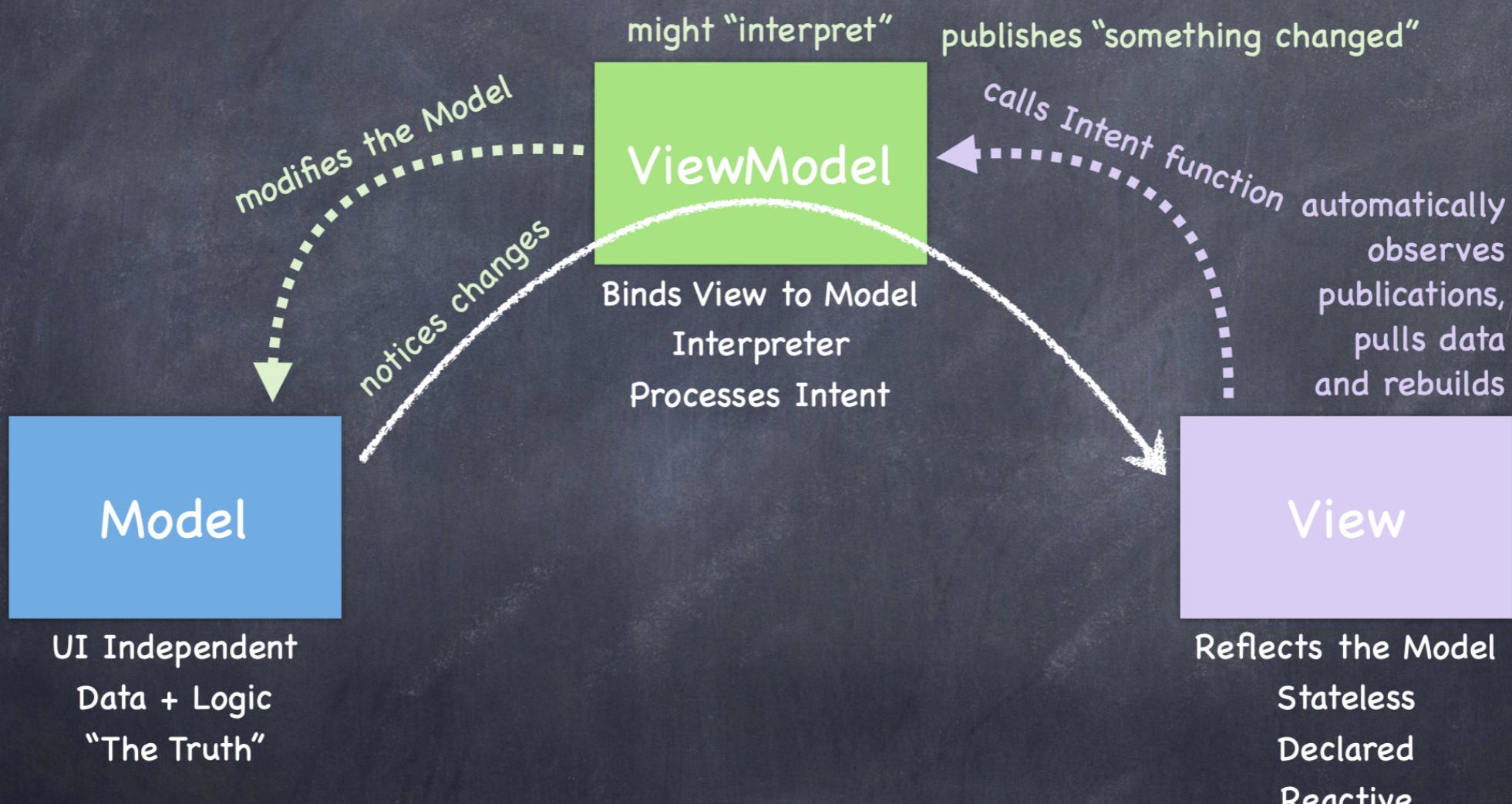


CS193p
Spring 2020

MVVM



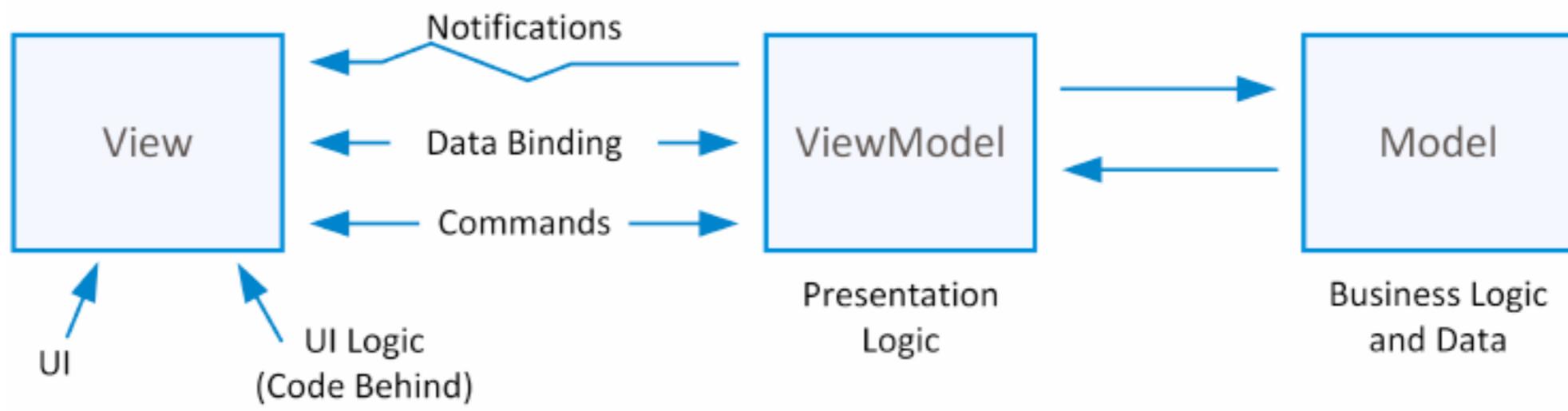
MVVM

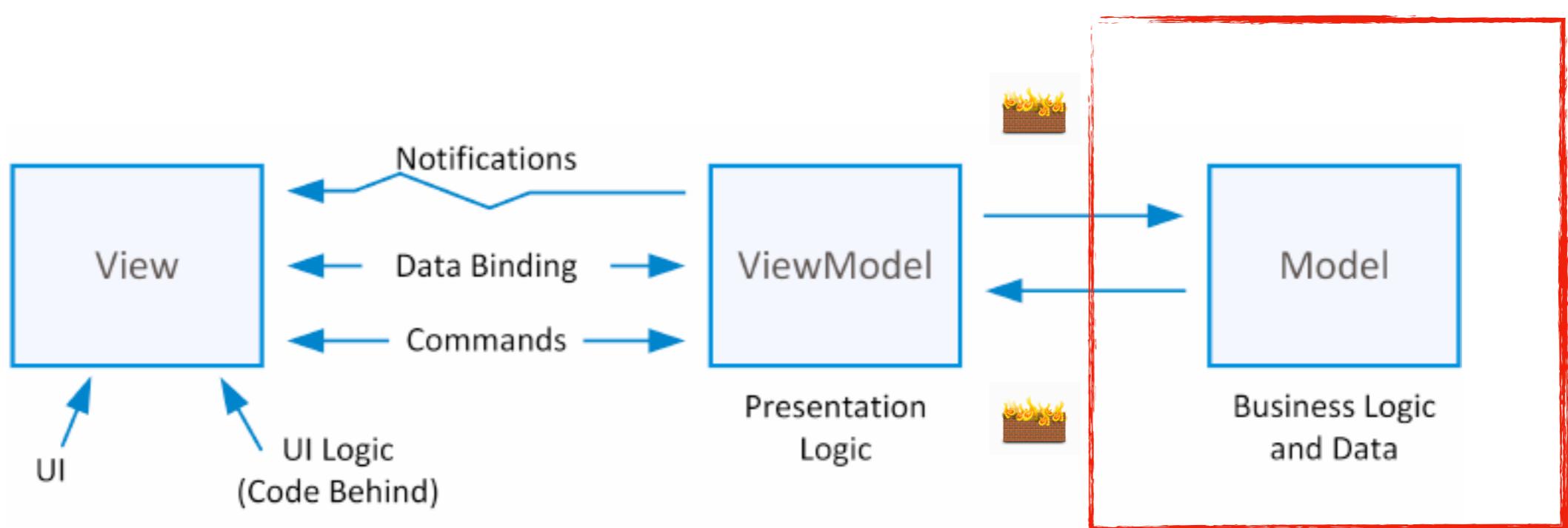


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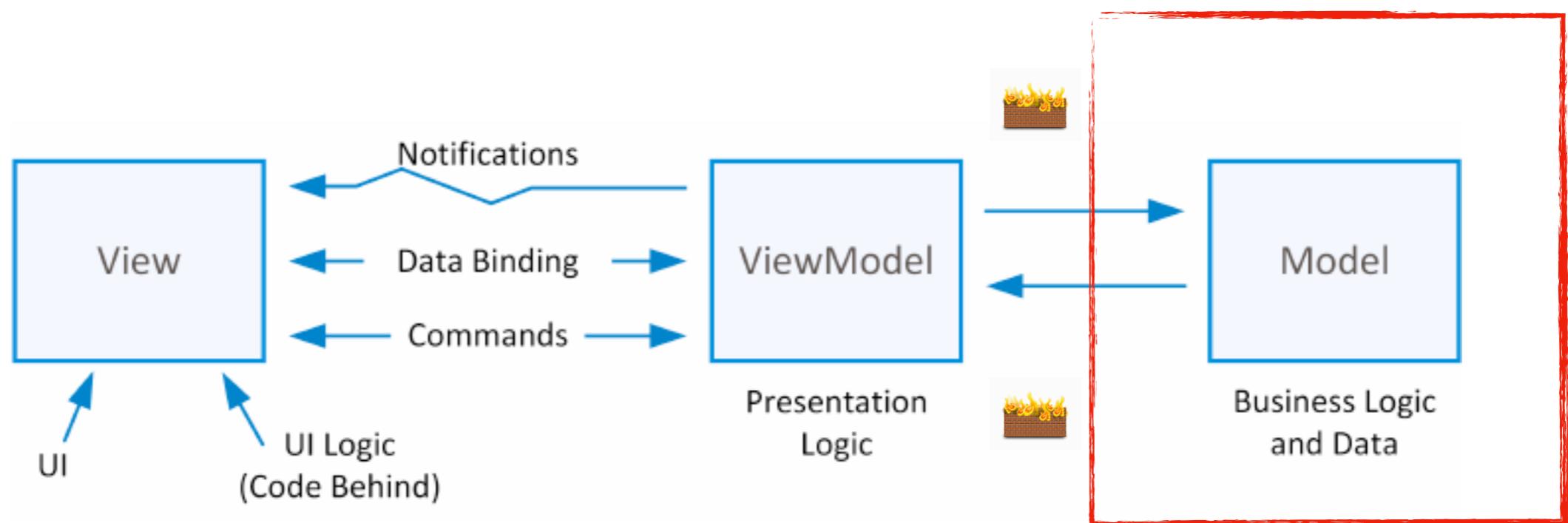


Speed.





Change this...



...or change this



**COME ON. WE'RE GOING
BINDER SHOPPING.**

MVVM+CADI



CADI is an acronym that stands for **C**ore, **A**pp, **D**ata, **I**nterface. Pronounced like, and inspired by, "[Caddie](#)", the system compliments MVVM through the use of folders, local packages, and protocols to make feature iteration, code replacement, and refactoring a relative breeze...

Core/*

- Models (the **M** in **MVVM**)
 - Core data representations
- Services (domain logic)
 - Made as "thin" as possible
- Type extensions
- Critical unit tests

App/

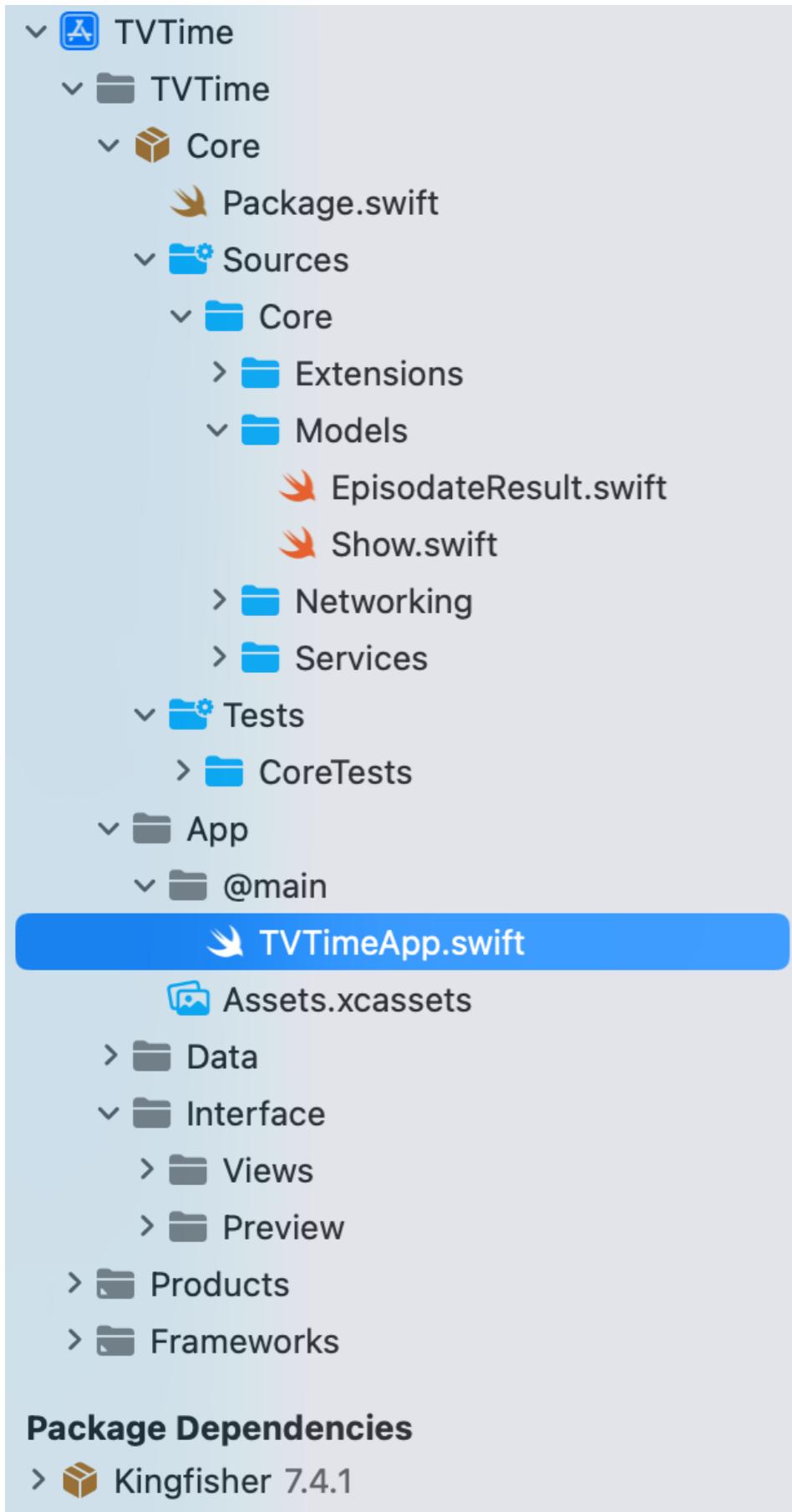
- @main entry point
- Configuration files
- Asset catalogues
- Environment/plist variables

Data/

- Database
 - UserDefaults, CoreData, [GRDB.swift](#), or similar
- Stores
 - With protocols to allow for future data layer substitutions

Interface/

- Views (the **V** in **MVVM**)
 - Organized by Screen
 - Co-located/nested ViewModels (the **VM** in **MVVM**)
- Fonts
- Colors
- Sugar*
 - Custom and reusable UI components



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Demo