

Model-View- ViewModel (MVVM)



Model-View-ViewModel

Model

Represents and holds **raw** data

- ✧ Some of this data, in some form, may be displayed in the view
- ✧ Can also contain logic to retrieve the data from some source
- ✧ Contains no logic associated with displaying the model



Model-View-ViewModel

View

User interface

- ✧ In a web app, it's just the HTML and CSS
- ✧ Only displays the data that it is given
- ✧ **Never changes the data**
- ✧ **Declaratively broadcasts events, but never handles them**

Model-View-ViewModel

ViewModel

Representation of the state of the view

- ✧ Holds the data that's displayed in the view
- ✧ Responds to view events, aka **presentation logic**
- ✧ Calls other functionality for business logic processing
- ✧ **Never directly asks the view to display anything**

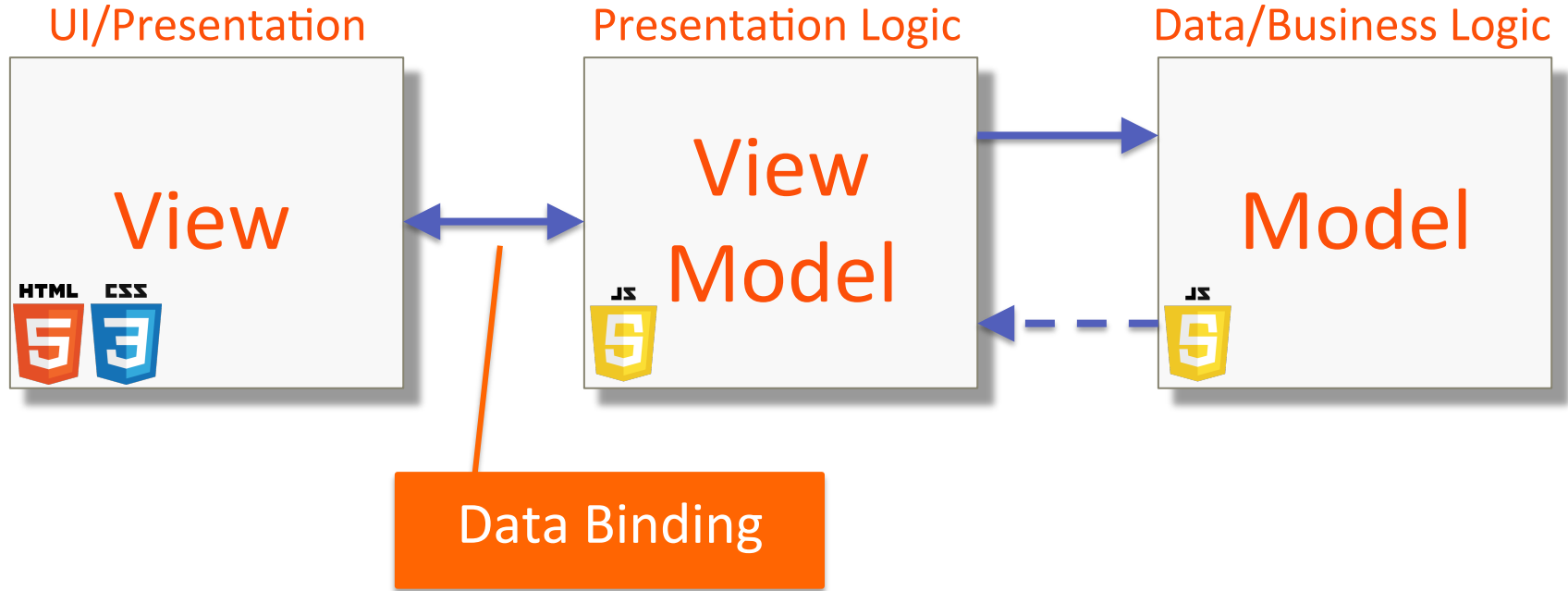


Declarative Binder

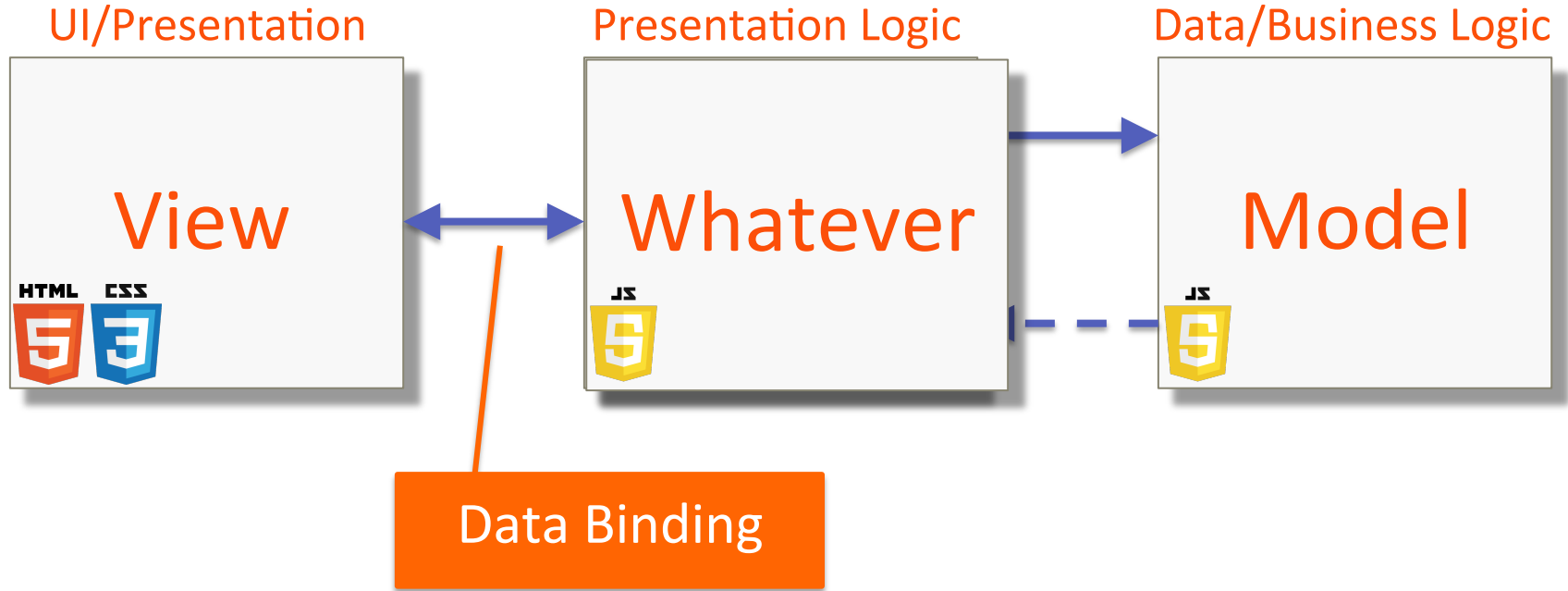
Declaratively binds the model of the ViewModel to the View

- ✧ Declaratively means you don't have to write **any** code
 - The framework does this “magic”
- ✧ Key enabler of the whole MVVM pattern

Model-View-ViewModel



Model-View-Whatever or MV*



Summary

- ✧ Design Patterns are cookie-cutter approaches to common software development issues
- ✧ MVVM is a common design pattern for structuring Uis with functionality
- ✧ Model – represents and holds raw data
- ✧ View – UI that never changes data, declares events
- ✧ ViewModel – data representation of the state of the UI
- ✧ Declarative Binder – binds ViewModel to the View
- ✧ Angular is not restricted to MVVM

