MVC to MVVM

Green @ LangLive

It's for MVVM beginner

- Overview MVC, Apple MVC
- How to Start MVVM
- Sample

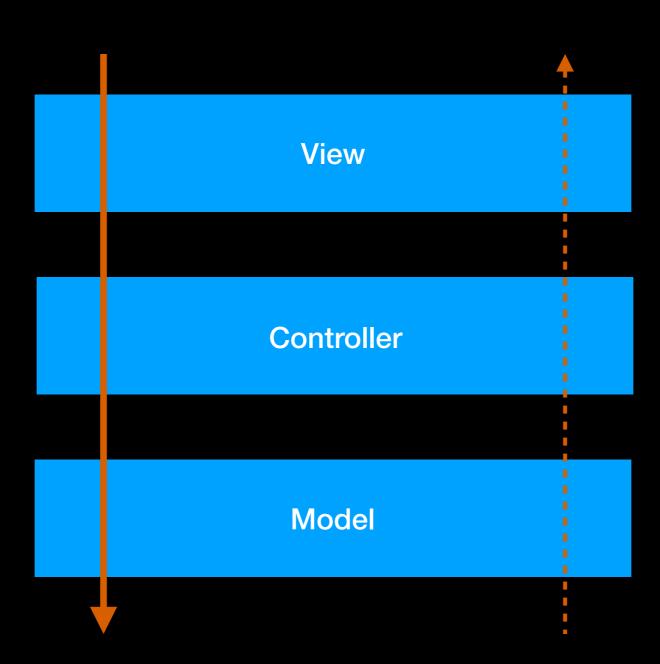
MVC

View

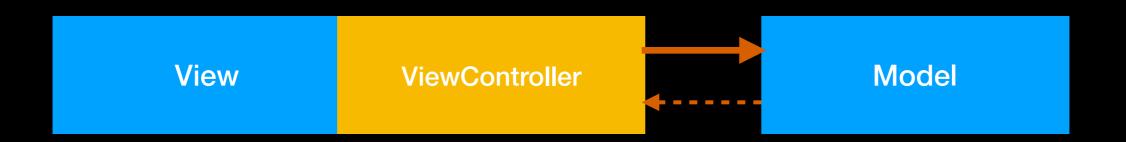
Controller

Model

MVC







ViewController is View

View ViewController Model

Duties:

- Init/Layout Subviews
- Navigation
- View State
- Mutate data
- Send API Requests
- Handle UIEvents

... etc

View View Controller Model

Duties:

- Init/Layout Subviews
- Navigation
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- Handle UIEvents

Massive ViewController

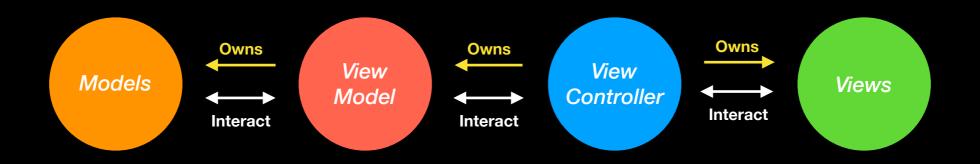
... etc

MVVM Model-View-ViewModel

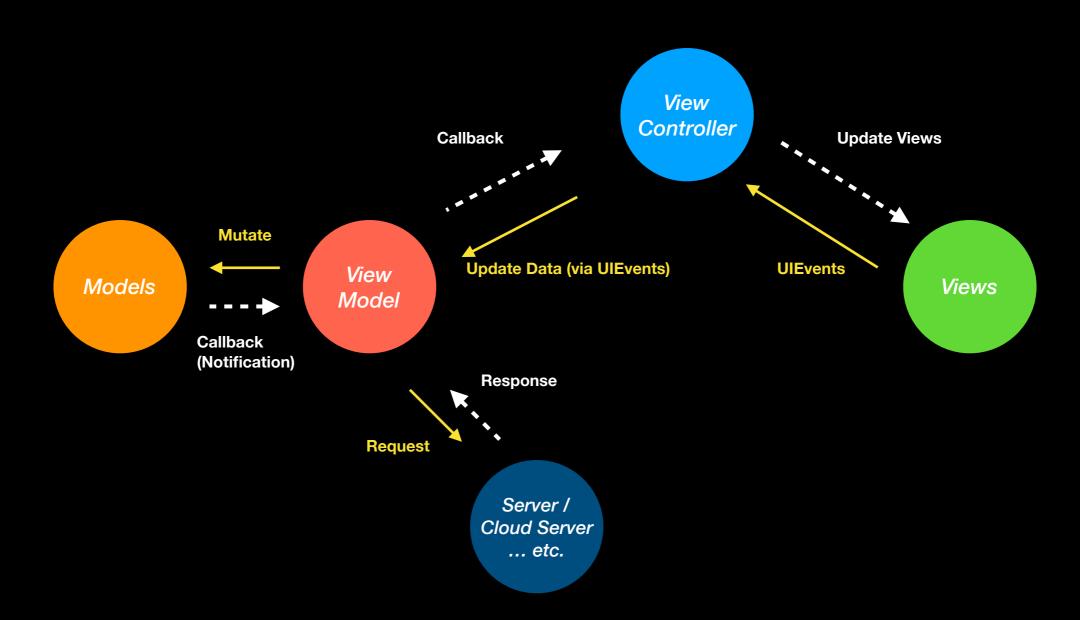
MVVV

- Reduce the responsibilities of VC
- Reduce the coupling
- Testable

Ownerships



Interactions



MVVM is similar with MVC

Principles

ViewModel (VM) is responsable for

- The content of view
- The handling for behavior of view

Principles

Move the content that is non-related to UI into VM.

- Logic
- Data struct
- API and other data manager.
- Notifications

Principles

- One VM vs One VC
- Sub-VM for subview if necessary

ViewController

Navigation

Init Views

Handle UIEvent

Cooperate other components

API Request

Models/Data Storage

Mutate Models/Data

View State

Allocate subviews of views'

Layouts

View

ViewController

Navigation

Init Views

Handle UIEvent

Cooperate other components

API Request

Models/Data Storage

Mutate Models/Data

View State

Allocate subviews of views'

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Navigation

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ViewController

Navigation

Init Views

View

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Cooperate other components

API Request

Models/Data Storage

Mutate Models/Data

View State

ViewController

Navigation

Init Views

Init VM

View Delegate

VM Delegate

View

Allocate subviews of views'

Layouts

Cooperate other components

API Request

Models/Data Storage

Mutate Models/Data

View State

ViewController

Navigation

Init Views

View

Allocate subviews of views

Lavouts

Interaction

API Request

Models/Data Storage

Mutate Models/Data

View State

ViewController

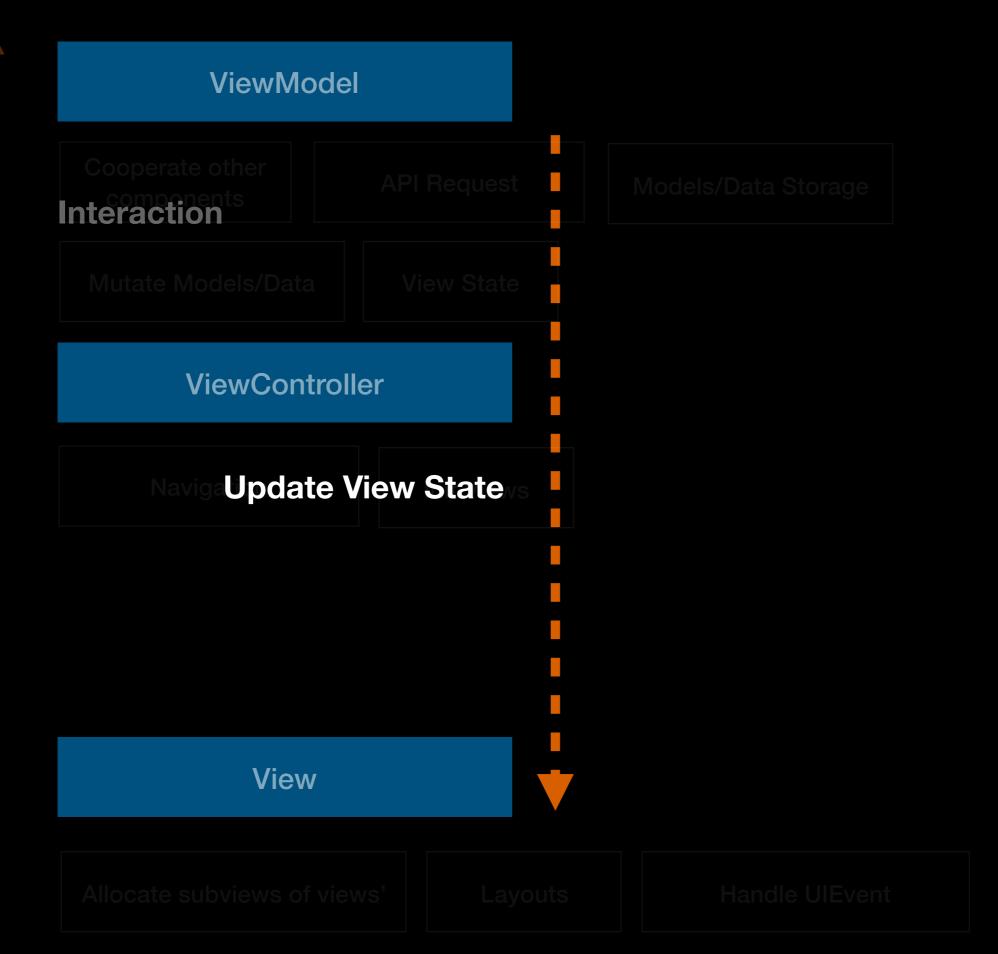
Navigation

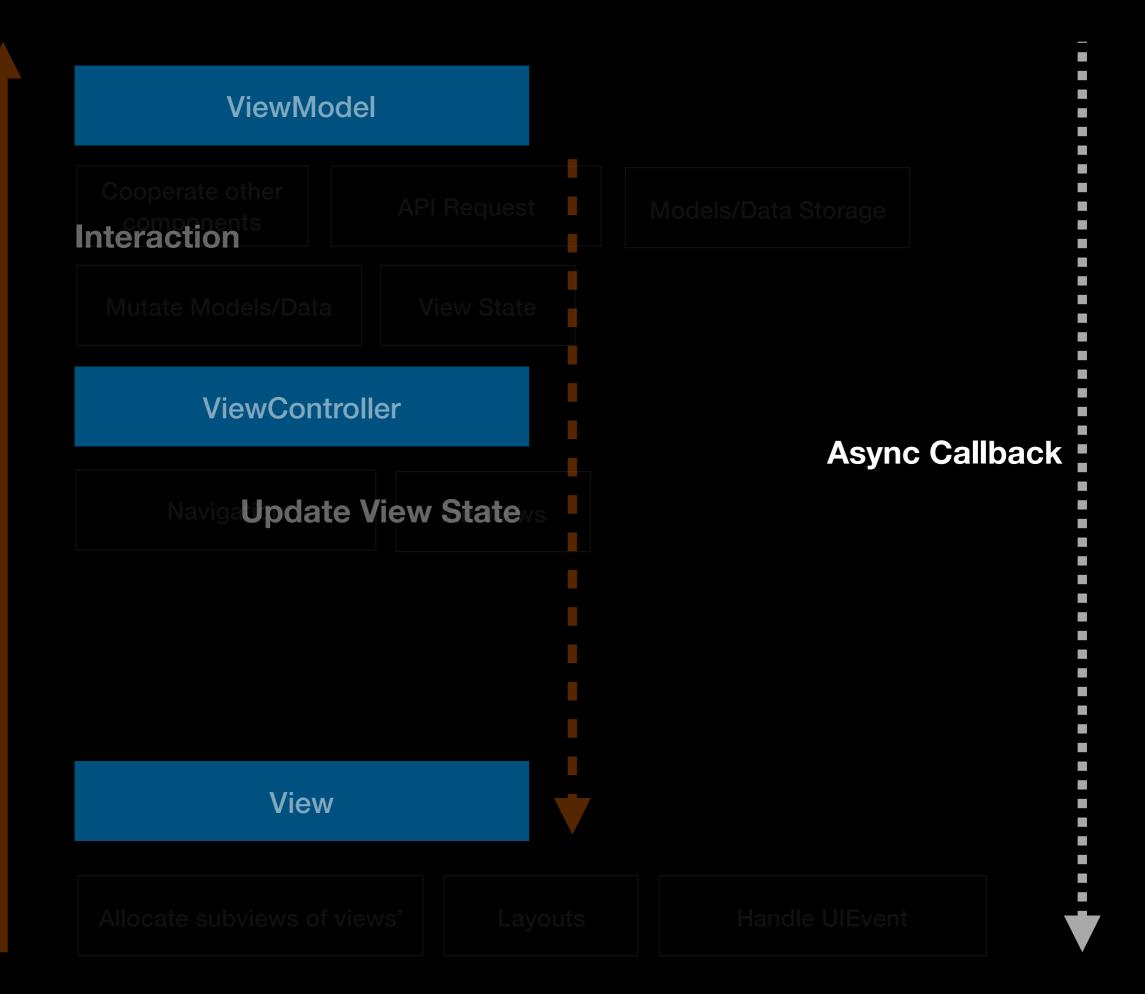
Init Views

View

Allocate subviews of views

Lavouts





Sample

Q&A

Next

- TDD / ATDD
- MVVM-C