

INTRODUCTION TO

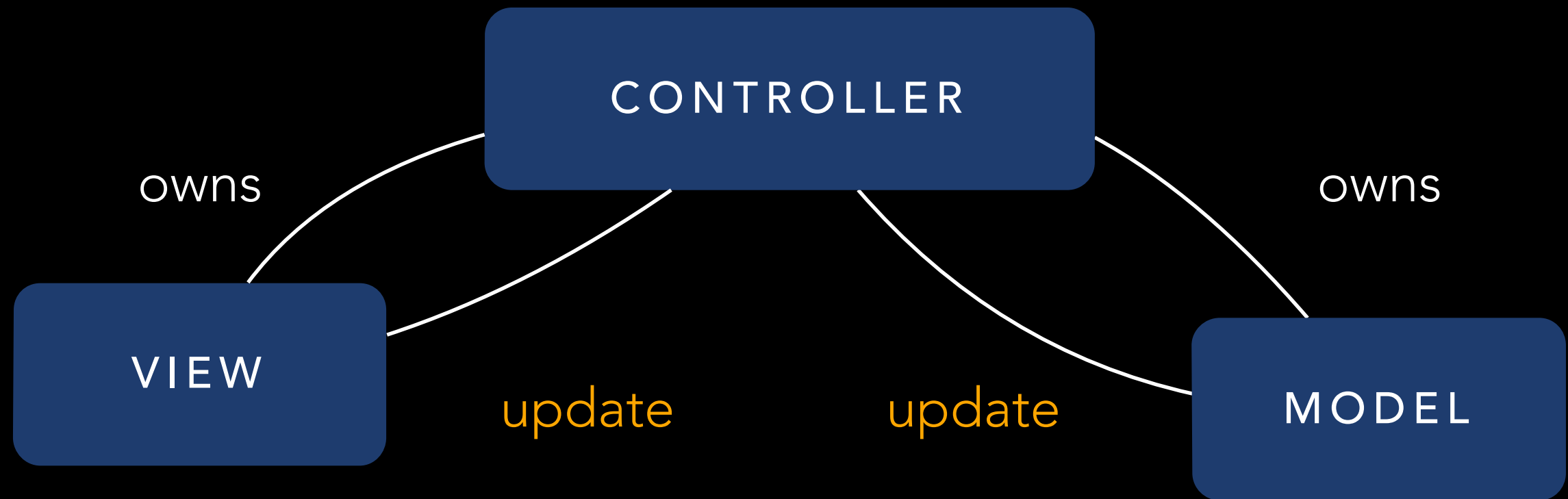


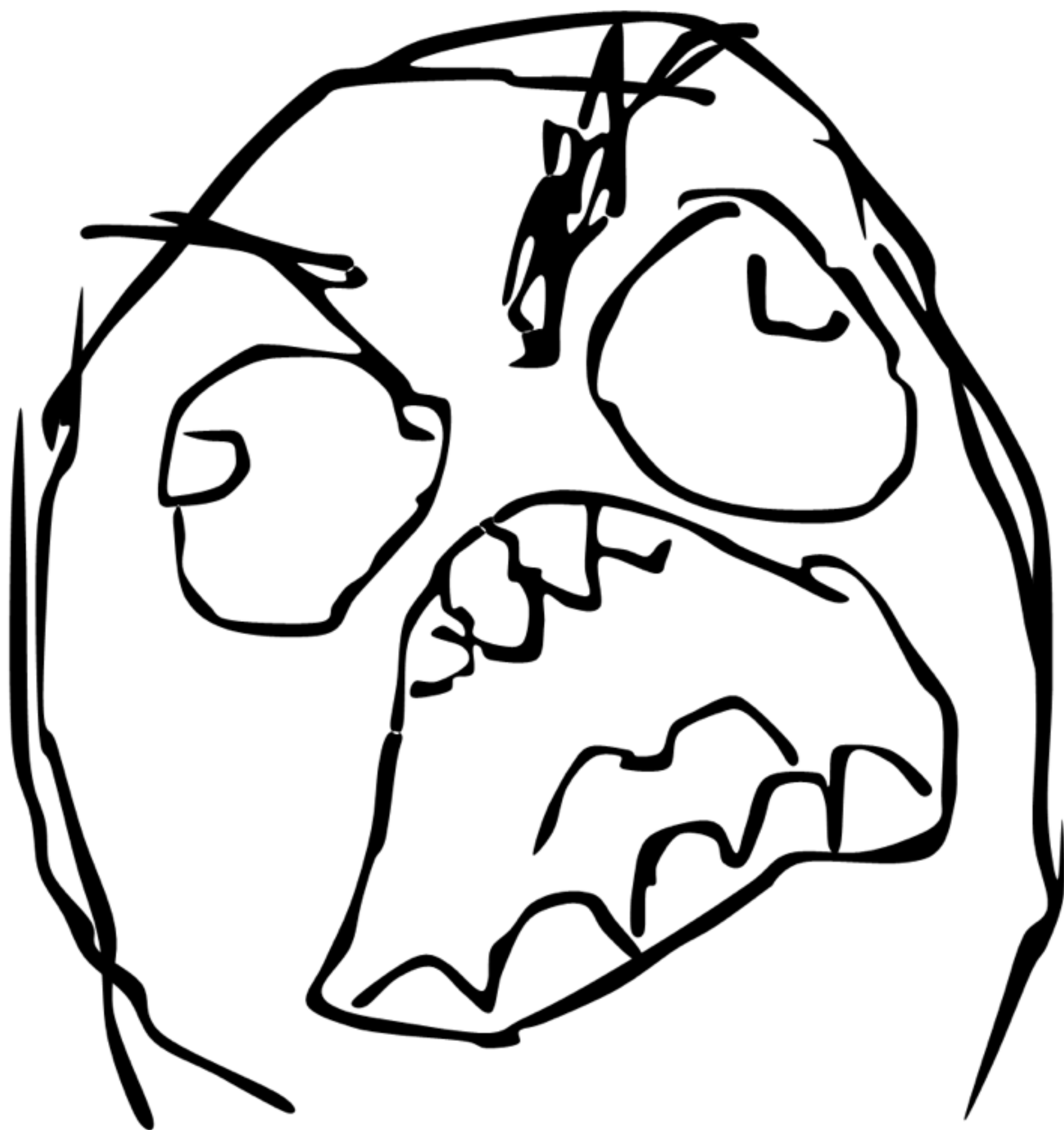
IOS ARCHITECTURE

MODEL VIEW CONTROLLER



MVC ARCHITECTURE







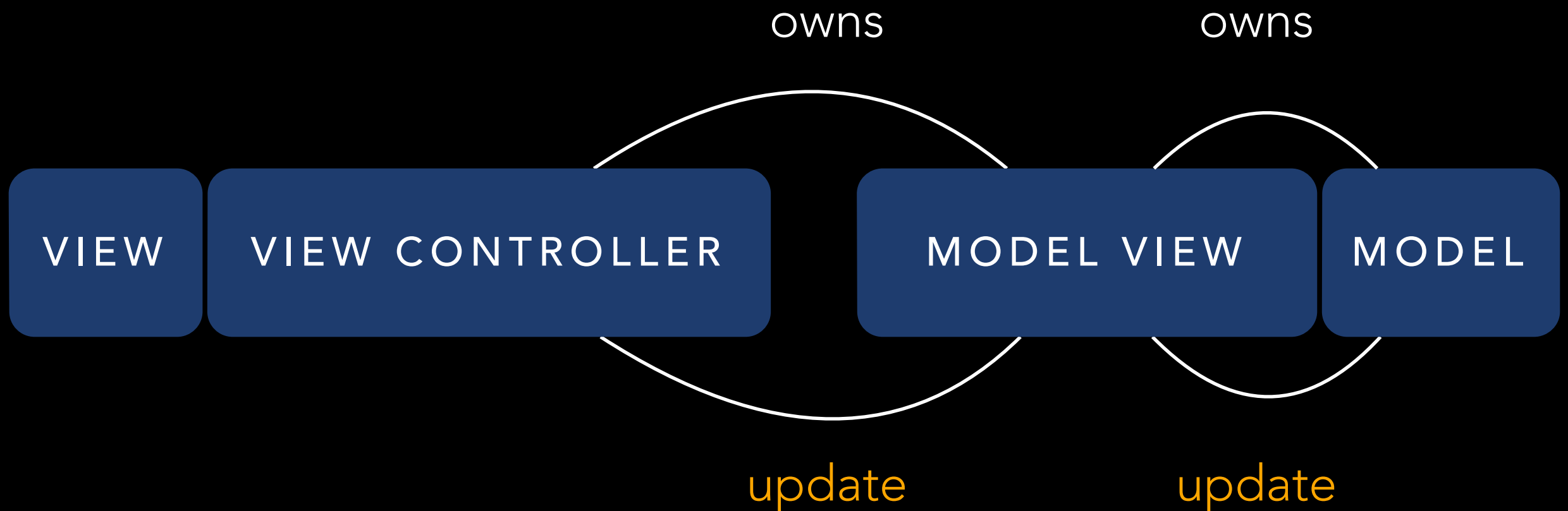
MASSIVE VIEW CONTROLLER



MVVM OR MVC++



MVVM ARCHITECTURE



WITHOUT MVVM

```
override func viewWillAppear(animated: Bool)
{
    super.viewWillAppear(animated)

    self.contentLabel.text = data.text

    let calendar = NSCalendar.currentCalendar();
    let unit:NSCalendarUnit = NSCalendarUnit.CalendarUnitMinute
    let dateComponent = calendar.components(unit, fromDate:
data.createdAt, toDate: NSDate(), options: nil)
    self.descriptionLabel.text = "\(data.firstname) \(data.lastname),
\(dateComponent.minute) ago"

    self.commentButton.setTitle("\(data.numberOfComments)
comments", forState: UIControlState.Normal)
}
...
```

WITH MVVM

Create a viewModel class

```
class DataViewModel: NSObject
{
    var contentText = ""
    var descriptionText = ""
    var commentTitle = ""

    func initWithData(data: Data) -> DataViewModel {
        let dataViewModel = DataViewModel()

        dataViewModel.contentText = data.text

        let calendar = NSCalendar.currentCalendar();
        let unit:NSCalendarUnit = NSCalendarUnit.CalendarUnitMinute
        let dateComponent = calendar.components(unit, fromDate: data.createdAt, toDate:
NSDate(), options: nil)
        dataViewModel.descriptionText = "\(data.firstname) \(data.lastname), \
(dateComponent.minute) ago"

        dataViewModel.commentTitle = "\(data.numberOfComments)"

        return dataViewModel
    }
}
```


WITH MVVM

After you initialized viewModel

```
override fun viewWillAppear(animated: Bool)
{
    super.viewWillAppear(animated)

    self.contentLabel.text = viewModel.contentText
    self.descriptionLabel.text = viewModel.descriptionText
    self.commentButton.setTitle(viewModel.commentTitle, forState:
UIControlState.Normal)
}
...
```

WHY MVVM ?

- MVVM is compatible with your existing MVC architecture.
- MVVM makes your apps more testable
- Because Microsoft





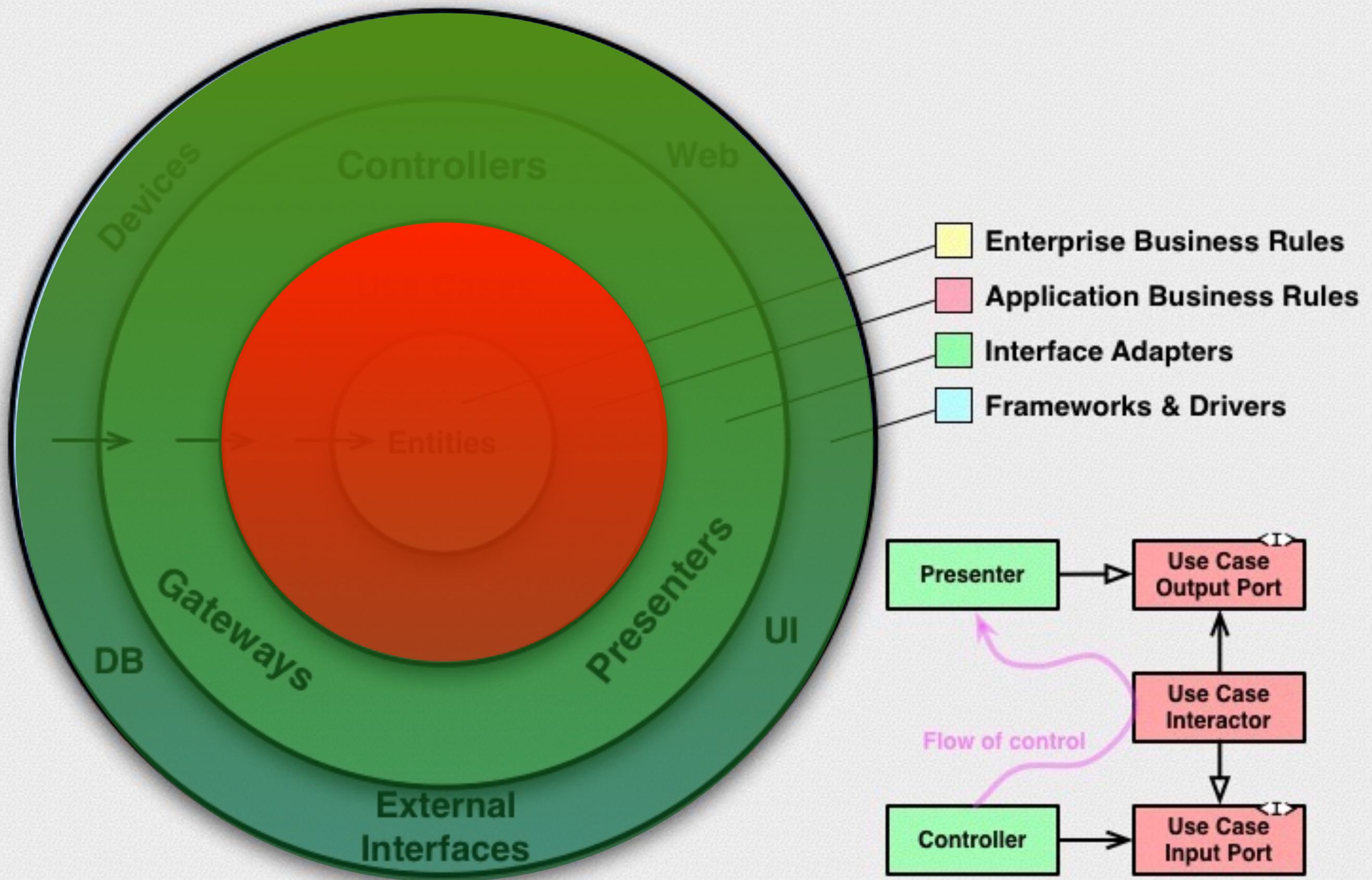


The Single Responsibility Principle

VIPER



The Clean Architecture

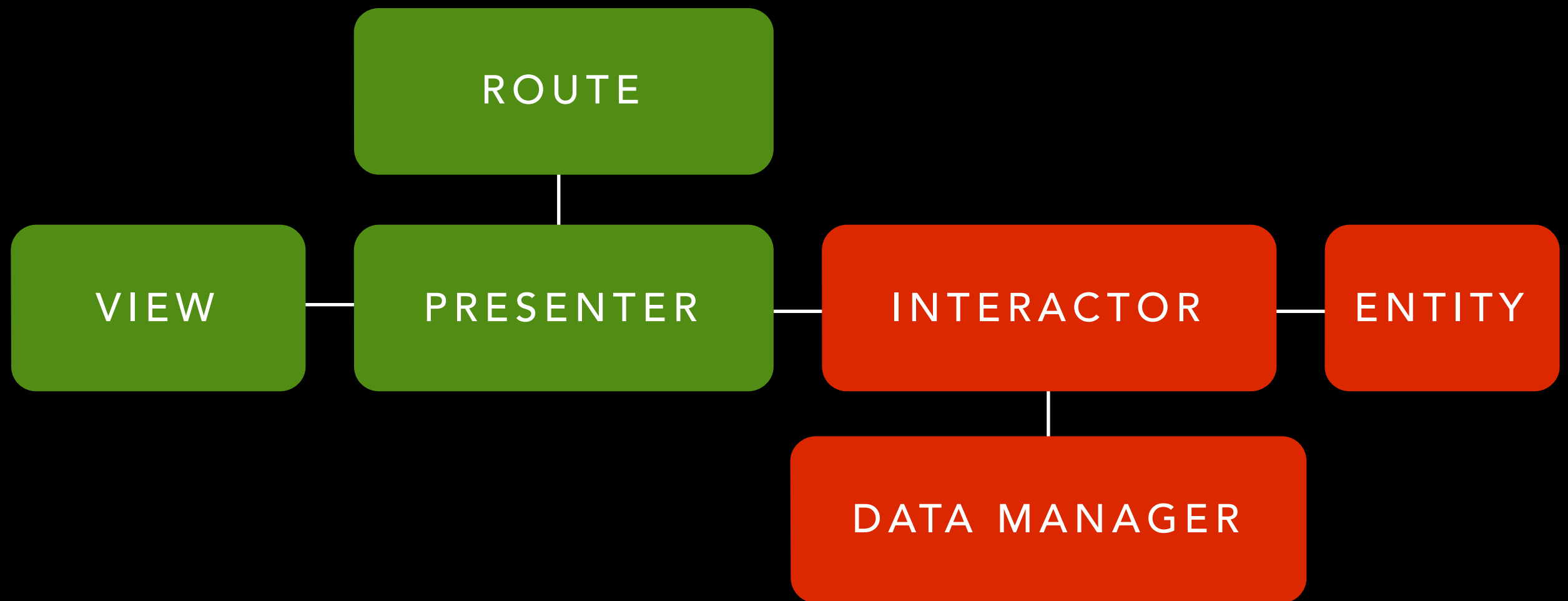




Business logic

User Interface

VIPER ARCHITECTURE



-  UI Interface
-  Business Logic

DEMO



<https://github.com/romsi/VIPERXCodeTemplate>



RESOURCES

- Introduction to MVVM

<http://www.objc.io/issue-13/mvvm.html>

- The Clean Architecture

<http://blog.8thlight.com/uncle-bob/2012/08/13/the-clean-architecture.html>

- The Principles of OOD

<http://www.butunclebob.com/ArticleS.UncleBob.PrinciplesOfOod>

- Introduction to VIPER

<http://mutualmobile.github.io/blog/2013/12/04/viper-introduction/>

THANK YOU

My email is romain.asnar@gmail.com if you would like to chat. Follow me [@romsi94](https://twitter.com/romsi94) because I like tweeting about dishes. I know that you prefer reading my slide, that's why I wrote a lot. But first, I would like to say thanks to my parents. As developer you should know that 80% of your product development takes as much effort as the last 20%, prepare yourself for those detail challenge ahead. You can imagine how much time I spent to write all of these. I forget to tell you that if you continue to read this I can tell you another story but in French. C'est l'histoire d'un petit garçon qui avait eu un ordinateur pour son anniversaire. Il était très heureux et il apprit le développement. Bon, j'en ai marre d'écrire et si vous continuez de lire meme si c'est en français, je ne peux plus rien pour vous. Thank you for reading it.



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