

UI

Application
Service

外部服务接口定义 业务逻辑实现 Domain Service

Domain Model

接口数据库实现 外部服务接口实现 外部依赖集成 -Spring/Mysql/Feign 基础接口定义

#### 前端

Angular Redux
React
Vue
Viper

RIBS
Bootstrap

Rodux
Rxjs
RViper
Naterial

Web 2.0

后端

Django Spring
BigData
Ruby On Rails

NoSql 分布式计算

# 什么时候应该关注架构?

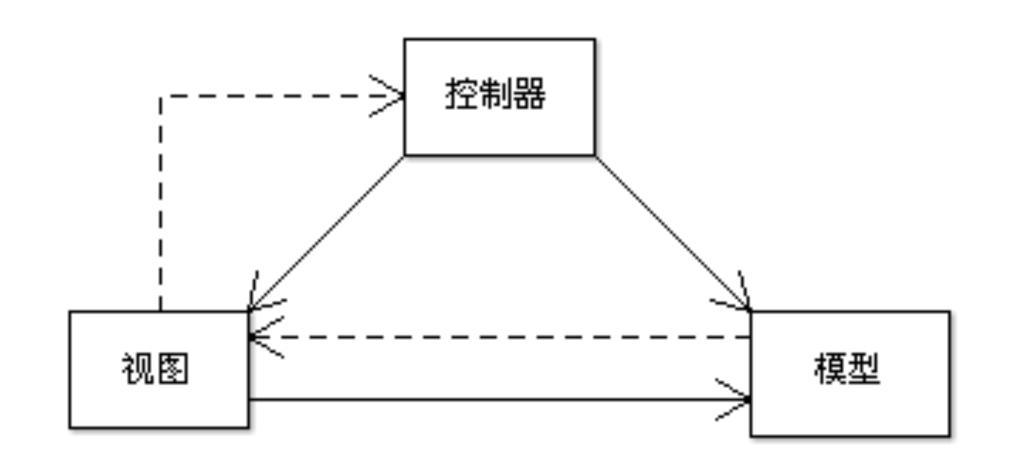
### 前端架构演进

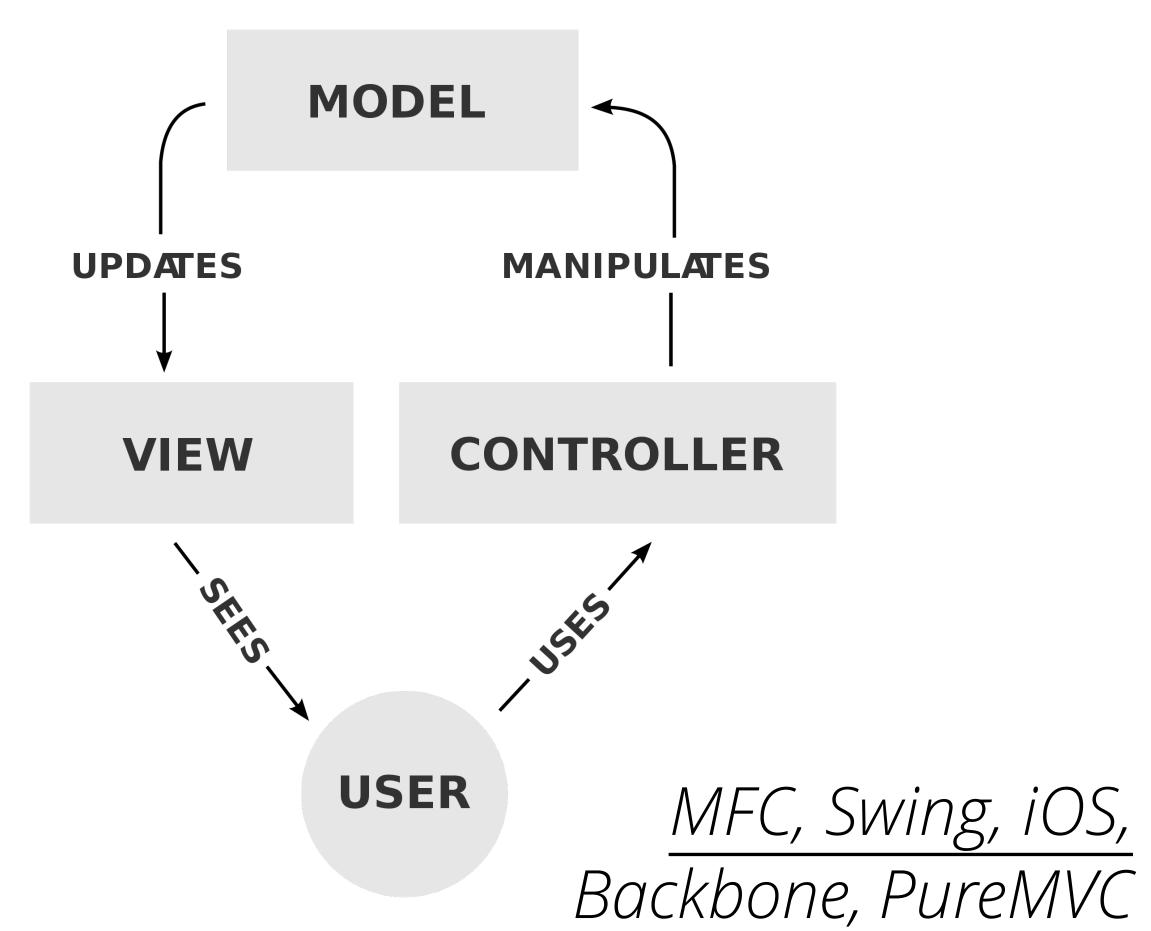
MVC MVP MVVM

Viper

组件化

Clean





Model: 业务逻辑相关的数据、对数据的处理方法

View: 实现数据有目的的显示,非必需,无逻辑,监听模型变更

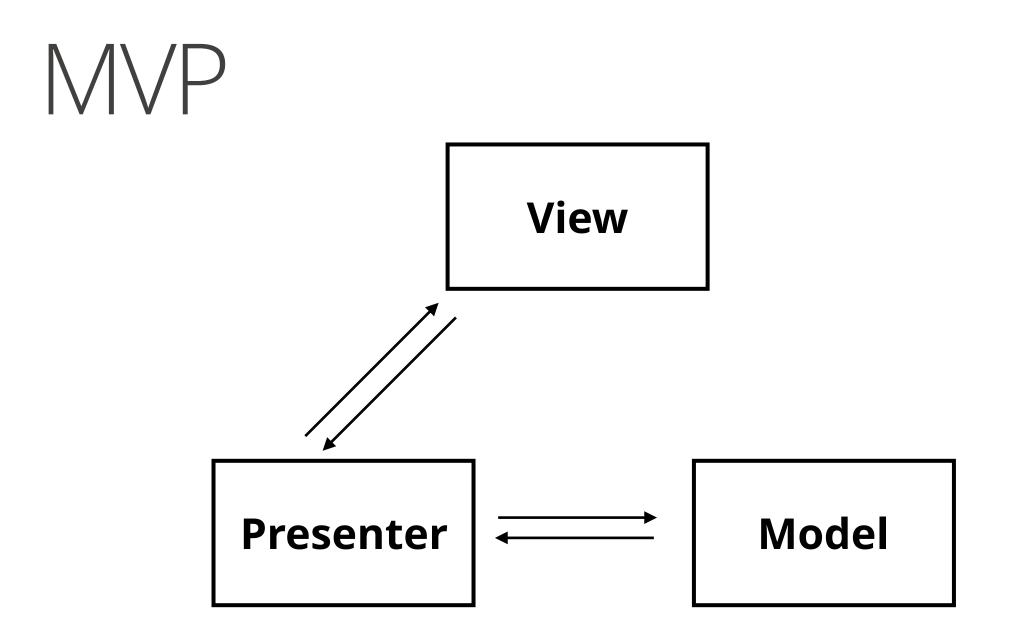
Controller: 组织View和Model,控制流程,处理事件(用户的行为和数据 Model 上的改变)

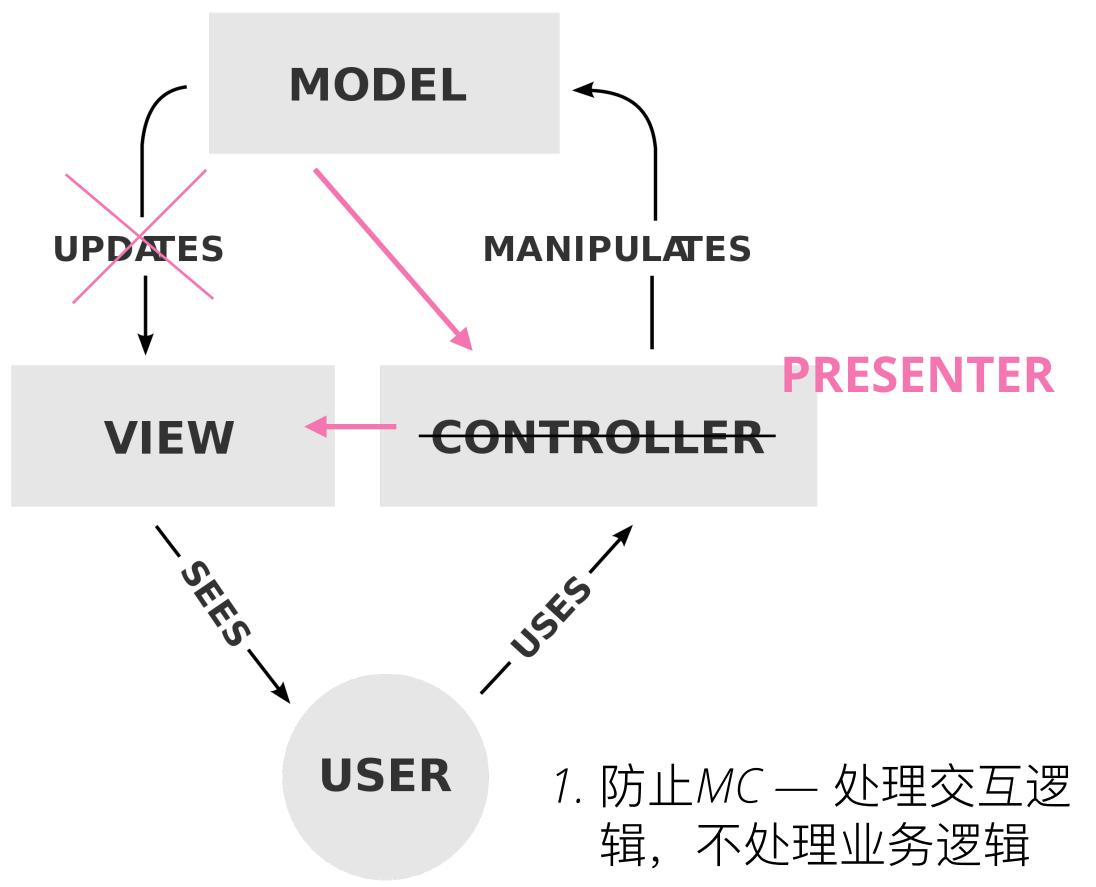
#### Massive View Controller

- 1. 事件处理
- 2. 复杂的交互处理
- 3. 给后端同步数据
- 4. 业务逻辑
- 5. 更新模型
- 6. 准备数据给View展示
- 7. ...

```
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const { dataSource, isMobile } = props;
delete props.dataSource;
delete props.isMobile;
let clearFloatNum = 0;
const children = dataSource.block.children.map((item, i) => {
  const childObj = item.children;
  const delay = isMobile ? i * 50 : this.getDelay(i, 24 / item.md)
  const liAnim = {
   opacity: 0,
   type: 'from',
   ease: 'easeOutQuad',
   delay,
  const childrenAnim = { ...liAnim, x: '+=10', delay: delay + 100
  clearFloatNum += item.md;
  clearFloatNum = clearFloatNum > 24 ? 0 : clearFloatNum;
  return (
    <Tween0ne
      component={Col}
      animation={liAnim}
      key={item.name}
      {...item}
      componentProps={{ md: item.md, xs: item.xs }}
      className={
        !clearFloatNum
         ? `${item.className || ''} clear-both`.trim()
          : item.className
      <Tween0ne
        animation={{
         x: '-=10',
         opacity: 0,
         type: 'from',
         ease: 'easeOutQuad',
        key="img"
        {...childObj.icon}
        <img src={child0bj.icon.children} width="100%" alt="img"</pre>
      </Tween0ne>
      <div {...childObj.textWrapper}>
        <Tween0ne
         key="h2"
         animation={childrenAnim}
         component="h2"
          {...childObj.title}
          {childObj.title.children}
        </Tween0ne>
        <Tween0ne
```

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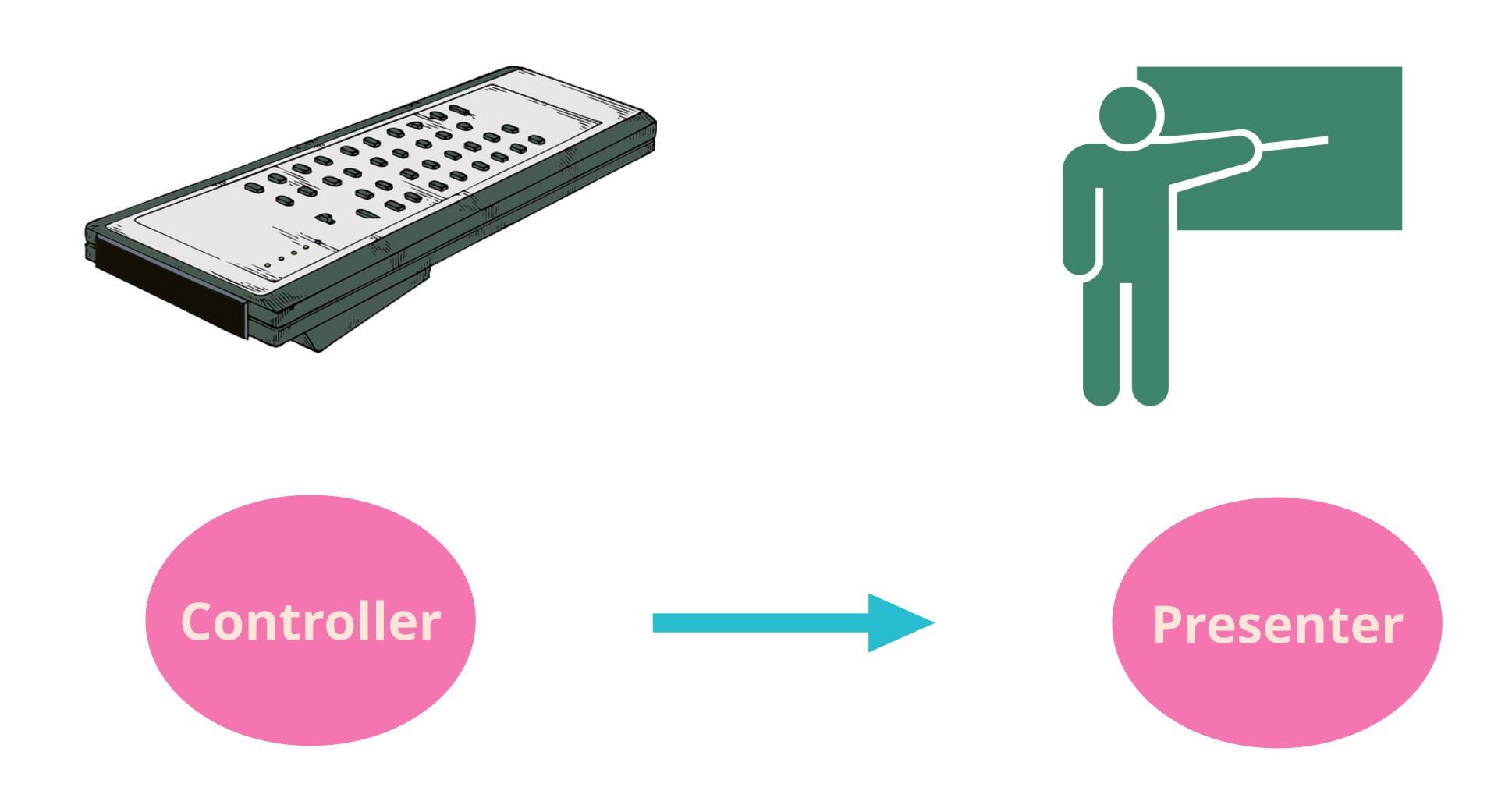




Presenter: 事件处理,获取Model数据,格式转换,与View通信。

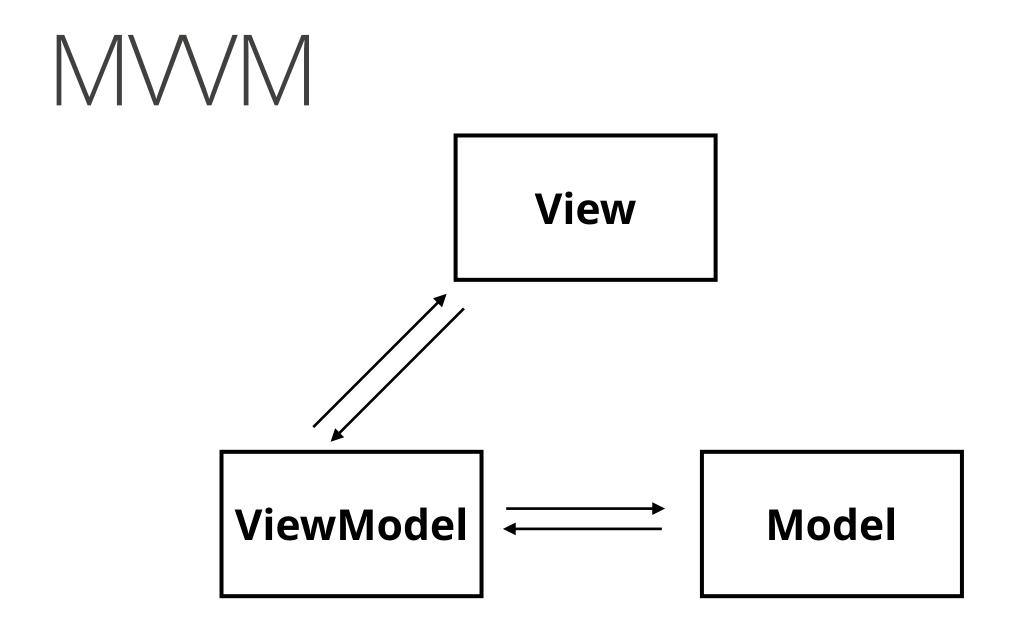
- 2. 辅助存储View的临时数据
- 3. View与Model不直接通信
- 4. Passive View

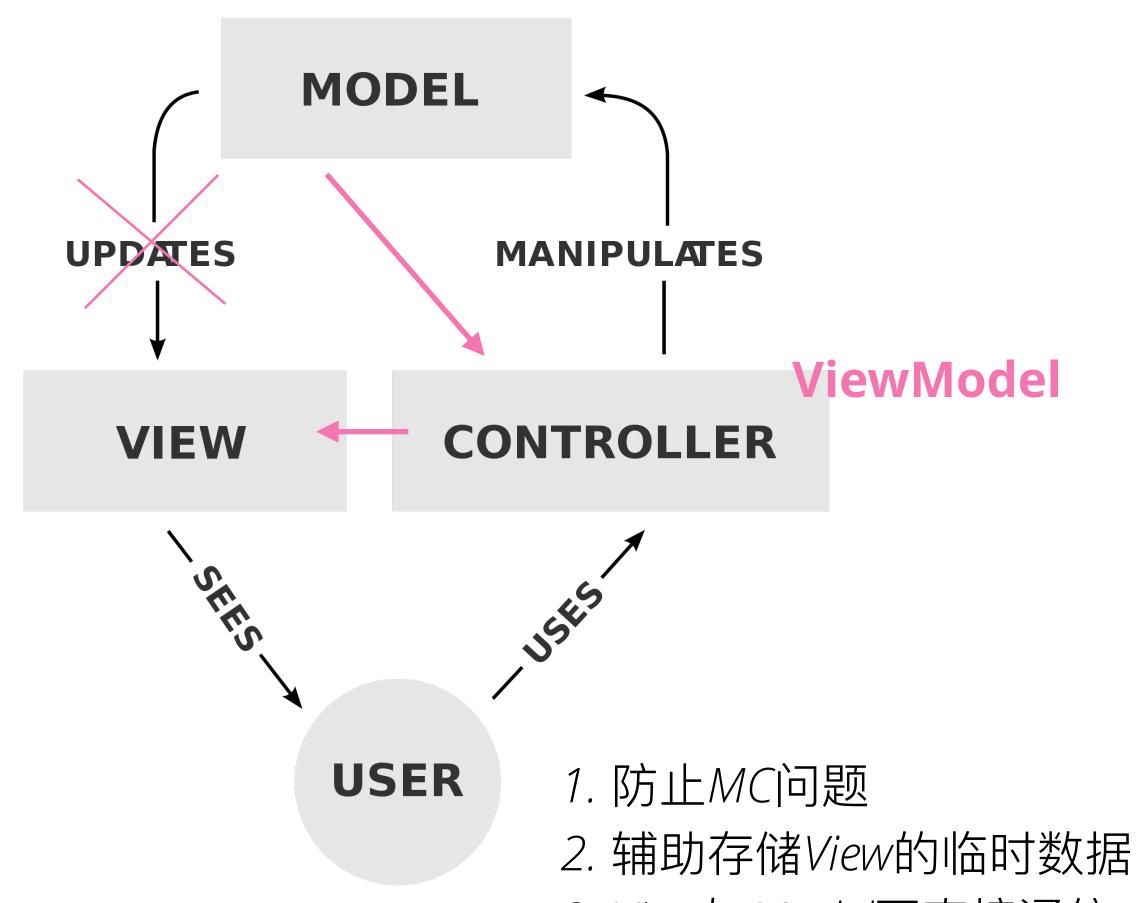
# 改进点在哪里?



### Passive View

- 1. Stupid View: 只负责渲染
- 2. 事件直接传递给Presenter 没有业务逻辑
- 3. 不修改数据 强调单向数据流

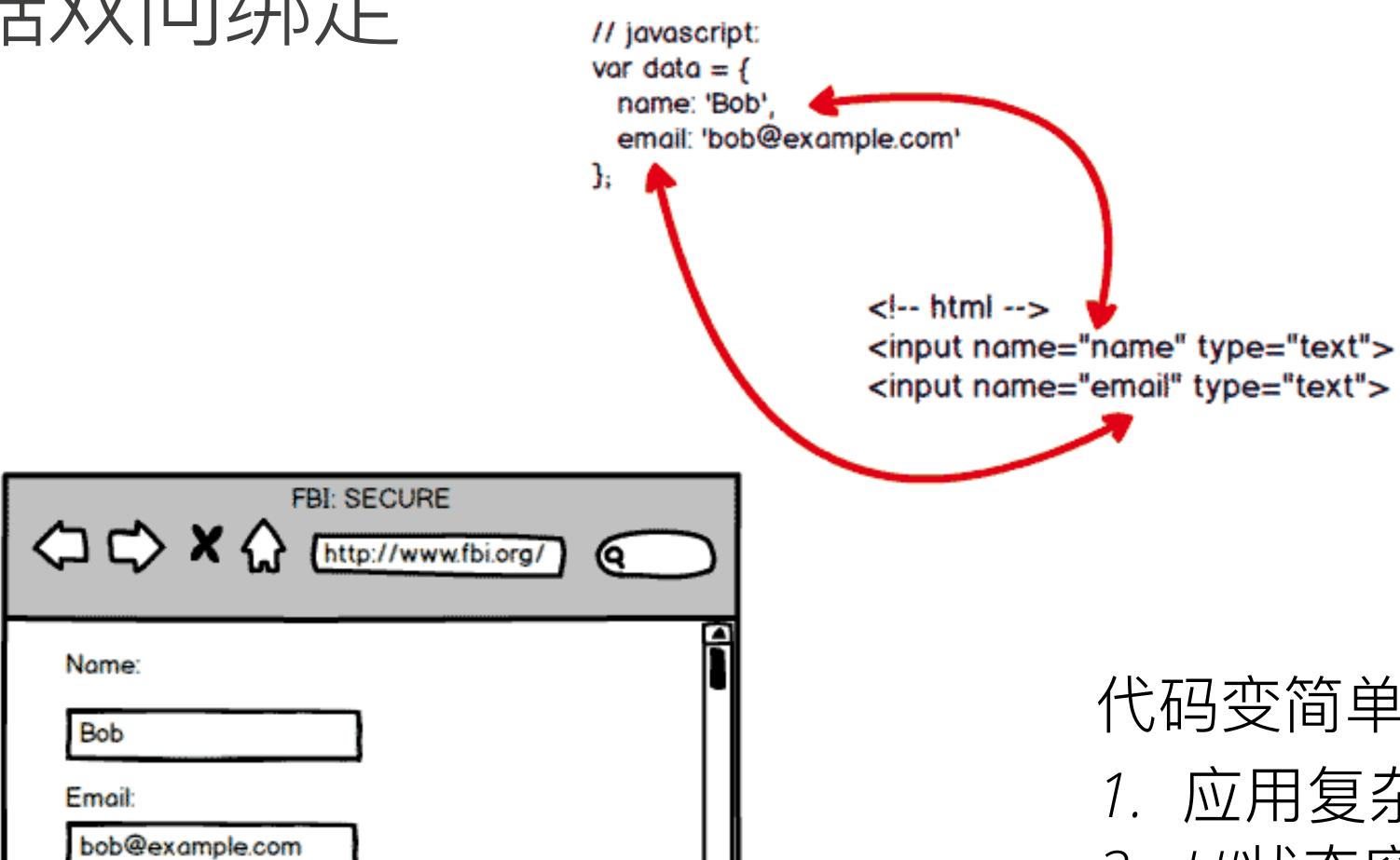




ViewModel: 事件处理,获取Model数据,格式转换,与View通信。

- 3. View与Model不直接通信
- 4. 通常实现为Passive View
- 5. 数据双向绑定

### 数据双向绑定

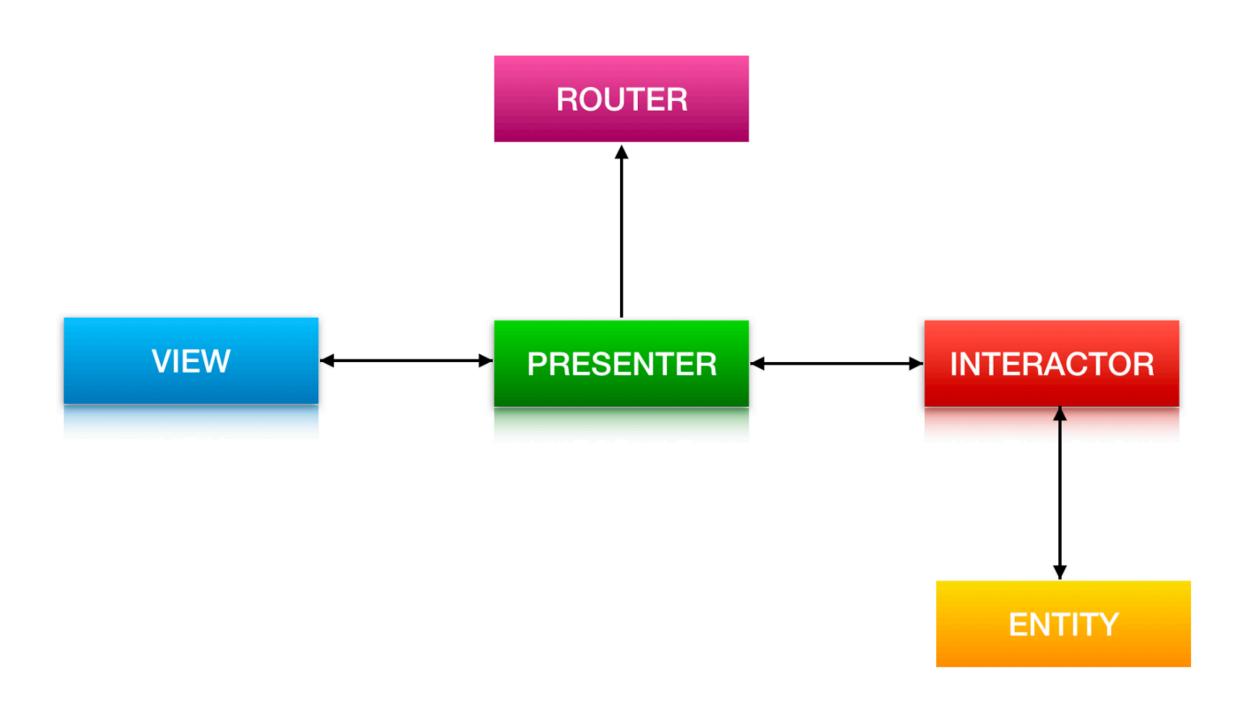


代码变简单了, 但是

- 1. 应用复杂时,难以理解和调试
- 2. U/状态容易侵入到模型层

## Viper & Ribs

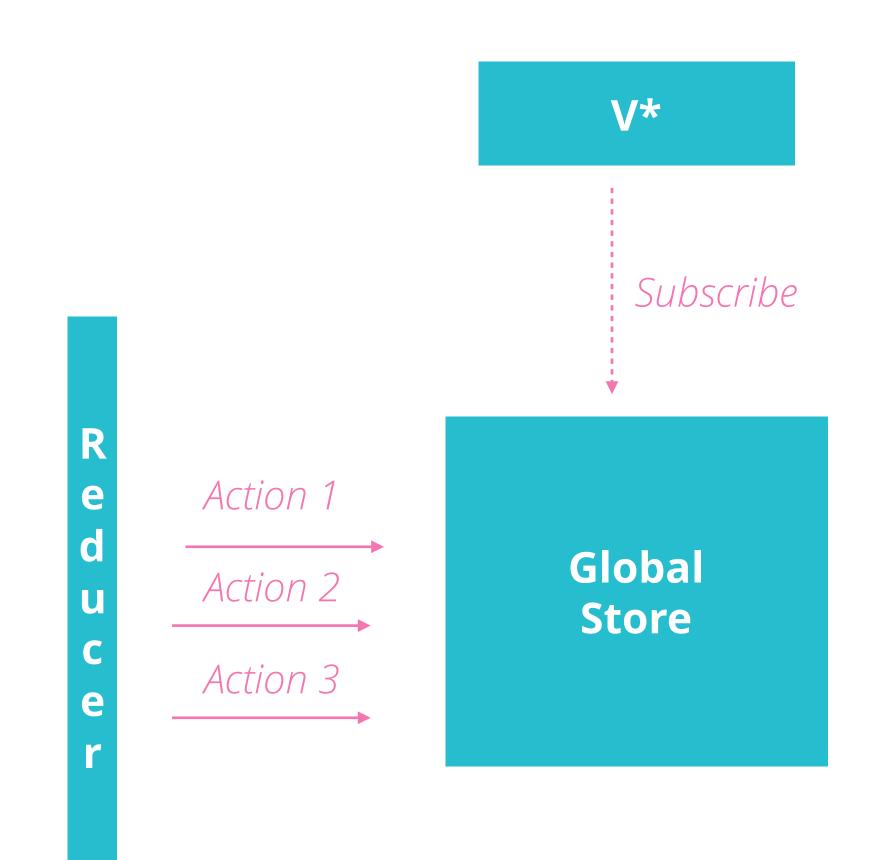
#### View, Interactor, Presenter, Entity, Router



- View— Send actions to the presenter, show presenter asks it to
- Interactor Business logic
- Presenter View logic, reacting to user interactions
- Entity— Model used by interactor
- Router Logic for routing of screens.

- 1. 业务驱动应用,而不是U驱动
- 2. 业务和U/保持独立

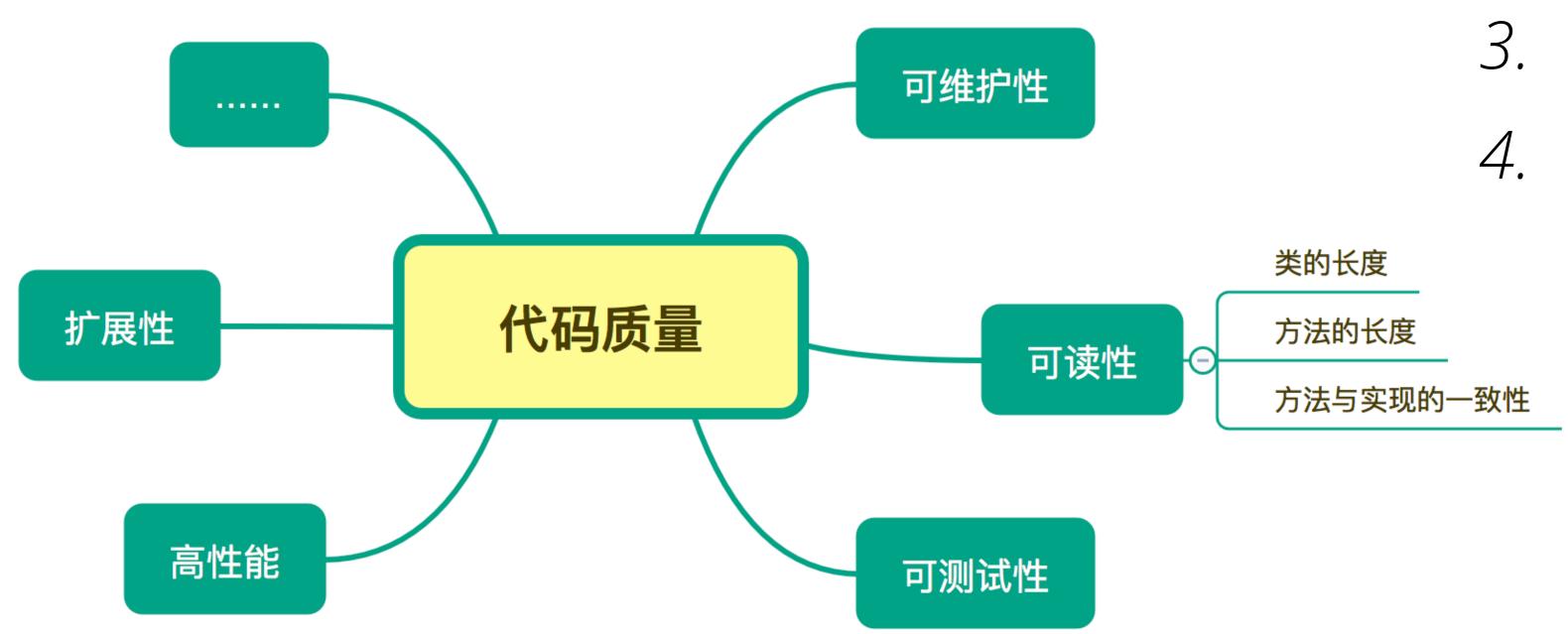
### Status Store



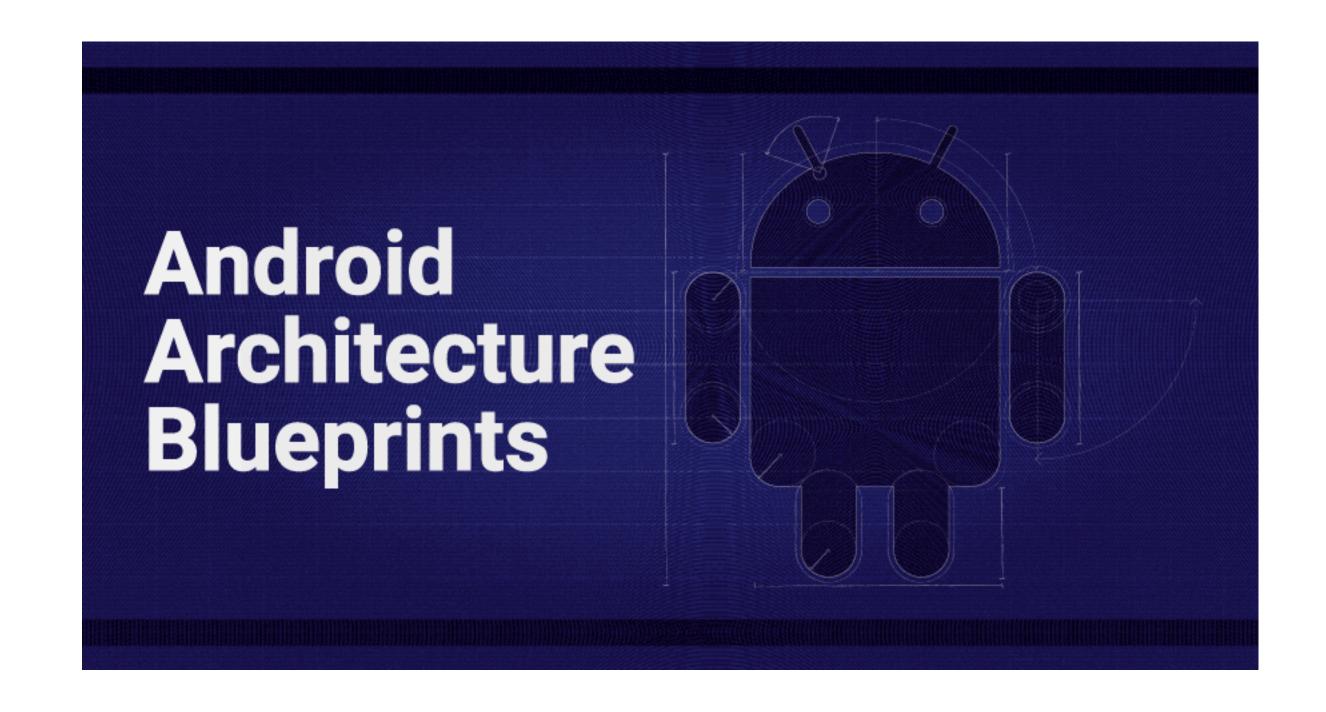
- 1. 减少请求次数
- 2. 独立的状态管理 对比数据库的概念
- 3. 便于面向领域进行设计

Service, HttpClient, Directive, Pipe, ...

### 组件设计与好代码的标准



- 1. 为复用而拆分
- 2. 为降低复杂度而拆分
- 3. 单向数据流 Passive View
- 4. 谨慎的状态管理



todo-mvp

todo-mvp-clean

todo-mvp-dagger

todo-mvp-rxjava

todo-mvvm-databinding

todo-mvvm-live

https://github.com/googlesamples/android-architecture