

GeekBand 极客班

互联网人才 + 加油站!



C++系统工程师



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设计模式六

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GeekBingo

回顾

- 层次结构
- 响应链(Responder chain)

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Prototype

动机

- 最小化创建新实例的对象和被创建实例类型之间的依赖
- 允许对创建的对象类型进行运行时控制

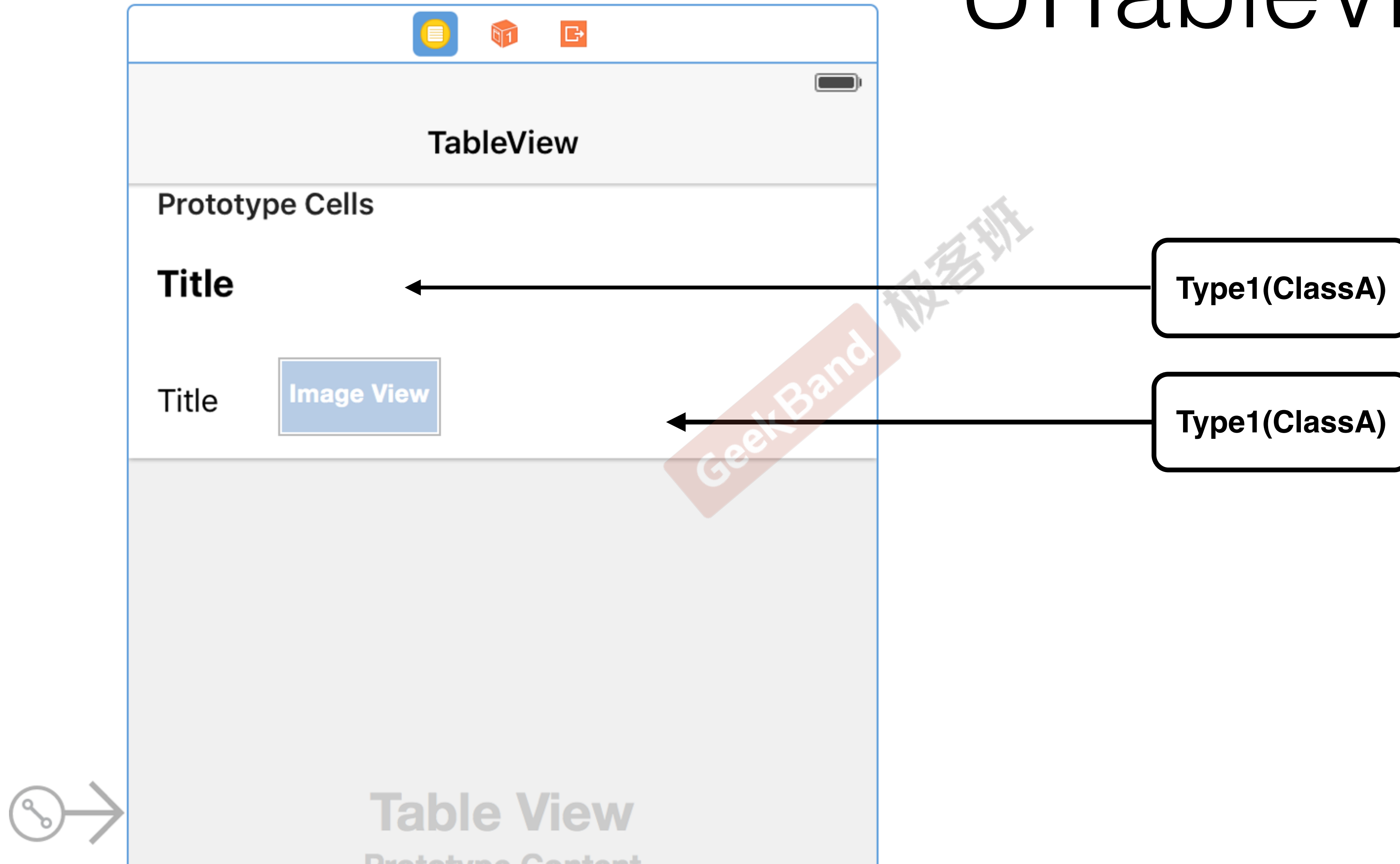
解决方案

- 原型对象的基本特征是可以被复制
- NSCopy 和NSCoding 协议
- 可以利用界面工具和支持复制的类确保互操作行
- 原型对象使用深复制
- 利用NSKeyedArchiver 和NSKeyedUnarchiver 实现深复制

TableViewCell

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UITableViewCell



TableView Demo

UITableViewCell

- (nullable __kindof UITableViewCell *)dequeueReusableCellWithIdentifier:(NSString *)identifier; // Used by the delegate to acquire an already allocated cell, in lieu of allocating a new one.
- (__kindof UITableViewCell *)dequeueReusableCellWithIdentifier:(NSString *)identifier forIndexPath:(NSIndexPath *)indexPath NS_AVAILABLE_IOS(6_0); // newer dequeue method guarantees a cell is returned and resized properly, assuming identifier is registered
- (nullable __kindof UITableViewHeaderFooterView *)dequeueReusableHeaderFooterViewWithIdentifier:(NSString *)identifier NS_AVAILABLE_IOS(6_0); // like dequeueReusableCellWithIdentifier:, but for headers/footers

使用

```
- (UITableViewCell *)tableView:(UITableView *)tableView cellForRowAtIndexPath:(NSIndexPath *)indexPath {  
  
    static NSString *CellIdentifier = @"TimeZoneCell";  
  
    APLTimeZoneCell *timeZoneCell = (APLTimeZoneCell *)[tableView  
        dequeueReusableCellWithIdentifier:CellIdentifier];  
  
    // Get the time zones for the region for the section  
    APLRegion *region = [self.displayList objectAtIndex:indexPath.section];  
    NSArray *regionTimeZones = region.timeZoneWrappers;  
  
    // Get the time zone wrapper for the row  
    [timeZoneCell setTimeZoneWrapper:[regionTimeZones objectAtIndex:indexPath.row]];  
    return timeZoneCell;  
}
```


Registe Nib or Class

```
// Beginning in iOS 6, clients can register a nib or class for each cell.  
// If all reuse identifiers are registered, use the newer –  
    dequeueReusableCellWithIdentifier:forIndexPath: to guarantee that a cell instance is  
    returned.  
// Instances returned from the new dequeue method will also be properly sized when they  
    are returned.  
– (void)registerNib:(nullable UINib *)nib forCellReuseIdentifier:(NSString *)identifier  
    NS_AVAILABLE_IOS(5_0);  
– (void)registerClass:(nullable Class)cellClass forCellReuseIdentifier:(NSString *)  
    identifier NS_AVAILABLE_IOS(6_0);  
  
– (void)registerNib:(nullable UINib *)nib forHeaderViewReuseIdentifier:(NSString *)  
    identifier NS_AVAILABLE_IOS(6_0);  
– (void)registerClass:(nullable Class)aClass forHeaderViewReuseIdentifier:(NSString  
    *)identifier NS_AVAILABLE_IOS(6_0);
```

UICollectionView

UICollectionView

- 使用prepareLayout方法执行前期计算，为后面的layout 提供信息
- 使用collectionViewContentSize方法放回整体内容的大小
- 使用layoutAttributesForElementsInRect: 返回制定矩形区域内cells的属性

1

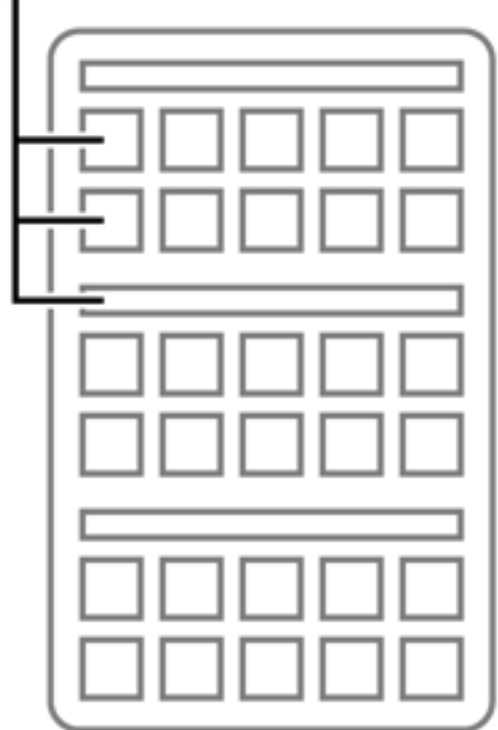
UICollectionView



MyLayoutObject

prepareLayout

center.x = _start + 20;
center.y = _lineHeight * n;



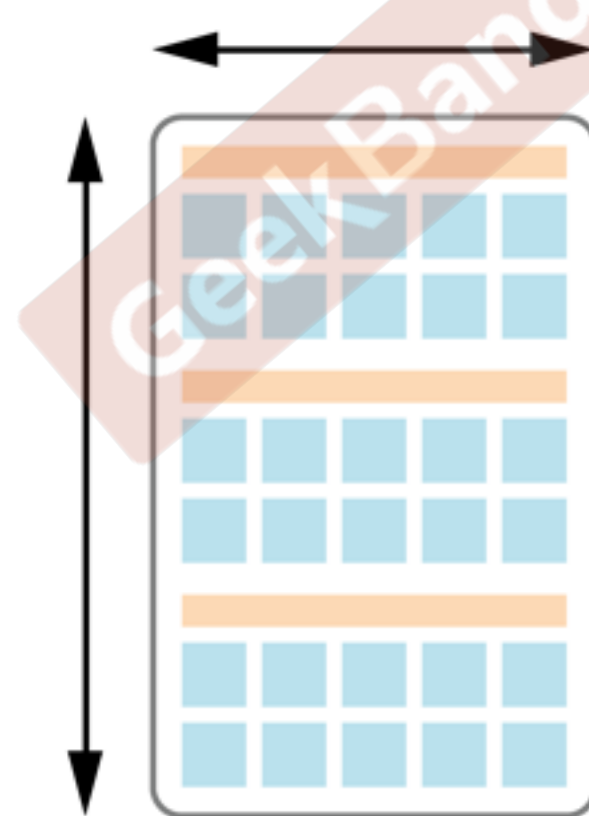
2

UICollectionView



MyLayoutObject

collectionViewContentSize



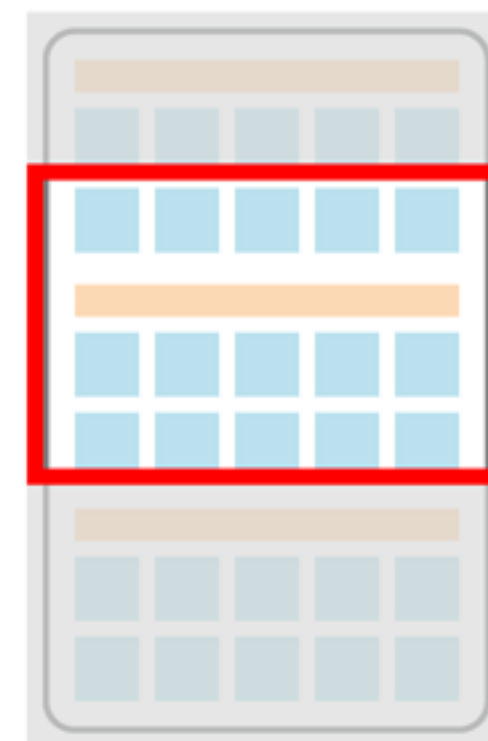
3

UICollectionView



MyLayoutObject

layoutAttributesForElementsInRect:



Demo

后果

- 复制对象通常比较费时
- 很少释放对象，对象重用，避免需要的时候再次复制

总结

- MVC,target-action
- 两步创建, 模版模式
- 委托模式, 观察者模式, 消息通知, KVC/KVO
- 归档和解档(Serialization), 复制模式
- 层次结构, 响应链
- prototype