cell渐变色背景闪烁动画及重用问题

- 1. 简述:股票行情资讯项目中,在用户自选股股票行情发生改变,比如相比上一次数据股票价上涨,则整个 cell 白红渐变色闪烁一下提醒用户,这只股票这个时刻上涨了,跌了则用绿色提醒用户。除了动画功能实现我们还需考虑 cell 动画重用的问题。
- 2. 实现:
 - (1) 数据大小判断

@property (strong, nonatomic) NSMutableArray *cellsColorChangeType;//记录cell下一刻的变化,0不闪,1闪红色,2闪绿色

```
weak typeof(self) weakSelf = self;
NSMutableArray *zixuan = [MYMemoryDefaults standardUserDefaults].stocksList;
if([zixuan count]){
 self.userZiXuanXuanData = zixuan;
  [self requestRealDetail:self.userZiXuanXuanData success:^(NSArray<GuPiaoDaiMaiName *> *responseObject) {
    NSMutableArray *selfStocks = [MYMemoryDefaults standardUserDefaults].stocksList;
    if([[responseObject count]){//返回为空或返回股票数和请求不一致 || [responseObject count]!= [selfStocks count]
        weakSelf.data = zixuan;
        [weak Self.cells Color Change Type\ enumerate Objects Using Block: `(NSS tring\ *obj,\ NSU Integer\ idx,\ BOOL\ *\_Nonnull\ stop)\ \{(Shift), (NSS tring\ *obj,\ NSU Integer\ idx,\ BOOL\ *\_Nonnull\ stop)\}
          obi = @"0";
        completion(YES);
      return;
    [weakSelf.cellsColorChangeType removeAllObjects];
    [weakSelf.cellsColorChangeType addObject:@"0"];
      //相比上一次请求涨跌情况
      CGFloat dif_rate_pre = [[(GuPiaoDaiMaiName *)[selfStocks objectAtIndex:idx]diff_rate] floatValue];
      CGFloat\ dif\_rate\_now = [obj.diff\_rate\ floatValue];
      if(dif_rate_pre != dif_rate_now)
        [weakSelf.cellsColorChangeType replaceObjectAtIndex:idx withObject:dif_rate_pre < dif_rate_now ? @"2": @"1"];
      [selfStocks replaceObjectAtIndex:idx withObject:obj];
    weakSelf.data = responseObject;
    completion(YES);
  31:
```

```
[self.userZiXuanXuanData removeAllObjects];
[self getZiXuanGuListDataWithResult:^(BOOL isLastData) {//isLastData表示userZiXuanXuanData是否为空
  if(isLastData == YES){//请求成功, userZiXuanXuanData不为空
     [self\ request Real Detail: weak Self.user ZiXuan Xuan Data\ success: \verb§^(NSArray < GuPiao Dai Mai Name *> *response Object) \{ (SArray < GuPiao Dai Mai Name *> *response Object) \} 
       if(![responseObject count])
         return;
       //更新cell闪烁一维数组
       [weak Self. cells Color Change Type\ remove All Objects];\\
       [responseObject enumerateObjectsUsingBlock:^(GuPiaoDaiMaiName *_Nonnull obj, NSUInteger idx, BOOL *_Nonnull stop) {
         [weakSelf.cellsColorChangeType addObject:@"0"];
       }];
       //将新数据存入内存
       [MYMemoryDefaults\ standardUserDefaults]. stocksList = [responseObject\ mutableCopy];
      weakSelf.data = responseObject;
      completion(YES);
  }else{//请求成功, userZiXuanXuanData为空
    //将新数据存入内存
    [[MYMemoryDefaults standardUserDefaults].stocksList removeAllObjects];
    [weakSelf deleteAllZiXuanGuPiaoIntoLocalSqlite];
    [weakSelf.cellsColorChangeType removeAllObjects];
    [weakSelf.data removeAllObjects];
    completion(YES);
}];
```

(2) cell 动画实现

```
_weak typeof(self) weakSelf = self;
_tableViewModel = [[ZiXuanTableViewModel alloc] initWithCellIdentifier:kCellIdentifier withHeaderIdentifier:nil configureCellBlock:^(ZiXuanTableViewCell * tableViewCell, id item, NSIndexPath *indexPath) {//cellForRow
[tableViewCell loadHangQingListViewCellWithData:item shanShuoType:[[weakSelf.tableViewModel.cellsColorChangeType objectAtIndex:indexPath.row] integerValue] isValidTime:self.isInRightTime];
[weakSelf.tableViewModel.cellsColorChangeType replaceObjectAtIndex:indexPath.row withObject:@"0"];
tableViewCell.selectionStyle = UITableViewCellSelectionStyleNone;

if([weakSelf.tableViewModel getItemCount] == indexPath.row + 1) {
    [tableViewCell setLongBottomLine];
} else {
    [tableViewCell setNormalBottomLine];
} withCellClass:nil];
[self.tableView setDataSource:_tableViewModel];
```

```
- (void) load Hang Qing List View Cell With Data: (GuPiao Dai Mai Name*) data shan Shuo Type; (Cell Shan Shuo Type) shan Type is Valid Time: (BOOL) and the property of the 
     isValidTime{
// [self.centerLabel.layer removeAnimationForKey:@"animation"];
// [self.rightLabel.layer removeAnimationForKey:@"animation"];
     double px_change_rate = [data.diff_rate doubleValue];
     [self.leftTopLabel setText:data.Stockname];
     [self.leftBottomLabel setText:data.Stockcode];
     [self.centerLabel setText:[NSString stringWithFormat:@"%.2lf", [data.nowPrice doubleValue]]];
     NumberType type =[TextUtility isPositiveNumber:px_change_rate];
     [self.rightLabel setText:[NSString stringWithFormat:@"%@%.2lf%@", type == NumberTypePositive?@"+":@"", px_change_rate, @"%"]];
     switch (type) {
         case NumberTypeZero:
             [self setNormalState];
              return;
              break;
         case NumberTypeNagative:
              [self setGreenState];
             break:
         case NumberTypePositive:
             [self setRedState];
              break;
          default:
               break;
     if(!isValidTime)
         return;
     UIColor *fromColor;
     switch (shanType) {
         case CellShanShuoTypeRed:{
                fromColor = [UIColor redColor];
               DLog(@"大");
               break;
         case CellShanShuoTypeGreen:{
               fromColor = [UIColor greenColor];
               DLog(@"/小");
              break:
         case CellShanShuoTypeNone:{
              DLog(@"等");
               return;
          default:
              break;
    [self.gradientLayer removeAnimationForKey:@"animation"];
    self.gradientLayer.colors = @[(_bridge id)[UIColor whiteColor].CGColor, (_bridge id)fromColor.CGColor];
    self.gradientLayer.opacity = 0;
    self.animation.fromValue = [NSNumber numberWithFloat:.5];
    self.animation.toValue = [NSNumber numberWithFloat:0.0];
    self.animation.duration = 1.f;
    self.animation.removedOnCompletion = YES;
    [self.gradientLayer addAnimation:_animation forKey:@"animation"];
```

```
_gradientLayer = [CAGradientLayer layer];
_gradientLayer.locations = @[@(0.3), @(1.0)];
_gradientLayer.startPoint = CGPointMake(0, 0);
_gradientLayer.endPoint = CGPointMake(1.0, 0);
_gradientLayer.colors = @[(__bridge id)[UIColor whiteColor].CGColor , (__bridge id)[UIColor whiteColor].CGColor];
_gradientLayer.frame = CGRectMake(0, 0, IEW_WIDTH,50);
_animation = [CABasicAnimation animationWithKeyPath:@"opacity"];
_animation.delegate = self;
[self.contentView.layer insertSublayer:_gradientLayer atIndex:0];
}
```

```
- (CABasicAnimation *)animation{
    if(!_animation) {
        _animation = [CABasicAnimation animationWithKeyPath:@"backgroundColor"];
        _animation.toValue = (id)[UIColor whiteColor].CGColor;
        _animation.duration = 1.0f;
}
return _animation;
}
```

```
#pragma mark CAAnimationDelegate
- (void)animationDidStop:(CAAnimation *)anim finished:(BOOL)flag {
    _gradientLayer.colors = @[(__bridge id)[UIColor whiteColor].CGColor];
}
```

(3) 关于动画重用问题,只需,在 cell 动画执行代码前前把前面的动画关闭即可