#### CACollectionViewDataSource

###### 类说明

[CACollectionView](../CAObject/CAView/CAScrollView/CACollectionView.docx)的数据代理

###### 方法

|  |  |  |
| --- | --- | --- |
| 访问修饰符 | 方法名 | 说明 |
| public | [collectionCellAtIndex](#collectionCellAtIndex) | Cell的内容 |
| public | [numberOfSectionsInCollectioView](#numberOfSectionsInCollectioView) | section的数量 |
| public | [numberOfRowsInSectionCollectionView](#numberOfRowsInSectionCollectionView) | 每个section包括几个cell |
| public | [collectionViewHeightForHeaderInSection](#collectionViewHeightForHeaderInSection) | 每个section的headerView |
| public | [collectionViewHeightForFooterInSection](#collectionViewHeightForFooterInSection) | 每个section的footerView |
| public | [collectionViewSectionViewForHeaderInSection](#collectionViewSectionViewForHeaderInSect) | headerView的内容 |
| public | [collectionViewSectionViewForFooterInSection](#collectionViewSectionViewForFooterInSect) | footerView的内容 |
| public | [numberOfItemsInRowsInSection](#numberOfItemsInRowsInSection) | 每个cell里的item数量 |
| public | [collectionViewHeightForRowAtIndexPath](#collectionViewHeightForRowAtIndexPath) | cell的高度 |

###### 方法介绍

**virtual CACollectionViewCell\*** **collectionCellAtIndex(CACollectionView \*collectionView, const CCSize& cellSize, unsigned int section, unsigned int row, unsigned int item) = 0**

返回值：CACollectionViewCell\*

参数：

|  |  |  |
| --- | --- | --- |
| 类型 | 参数名 | 说明 |
| CACollectionView \* | collectionView | 当前collectionView |
| const CCSize | cellSize | cell的size |
| unsigned int | section | section索引值 |
| unsigned int | row | cell索引值 |
| unsigned int | item | cell的item数量 |

解释：同tableView一样，cell同样是采用复用的方式，复用的方式与tableView一样。

示例：

CACollectionViewCell\* CollectionViewTest::collectionCellAtIndex(CACollectionView \*collectionView, const CCSize& cellSize, unsigned int section, unsigned int row, unsigned int item)

{

CACollectionViewCell\* p\_Cell = collectionView->dequeueReusableCellWithIdentifier("CrossApp");

if (p\_Cell == NULL)

{

p\_Cell = CACollectionViewCell::create("CrossApp");

CAImageView\* itemView = CAImageView::createWithImage(CAImage::create("logo.png"));

itemView->setCenter(CCRect(cellSize.width\*0.5,cellSize.height\*0.5,cellSize.height \* 0.90,cellSize.height \* 0.90));

itemView->setTag(99);

p\_Cell->addSubview(itemView);

CALabel\* itemText = CALabel::createWithCenter(CCRect(itemView->getBounds().size.width\*0.5,

itemView->getBounds().size.height\*0.5,

itemView->getBounds().size.width\*0.6,

itemView->getBounds().size.width\*0.5));

itemText->setTag(100);

itemText->setFontSize(29 \* CROSSAPP\_ADPTATION\_RATIO);

itemText->setTextAlignment(CATextAlignmentCenter);

itemText->setVerticalTextAlignmet(CAVerticalTextAlignmentCenter);

itemView->addSubview(itemText);

}

char pos[20] = "";

sprintf(pos, "(%d,%d,%d)",section, row, item);

CALabel\* itemText = (CALabel\*)p\_Cell->getSubviewByTag(99)->getSubviewByTag(100);

itemText->setText(pos);

return p\_Cell;

}

**virtual unsigned int** **numberOfSectionsInCollectioView() { return 1; }**

返回值：unsigned int

解释：返回collectionView中的section数量，默认返回一个section。

**virtual unsigned int** **numberOfRowsInSectionCollectionView(CACollectionView \*collectionView, unsigned int section) = 0**

返回值：unsigned int

参数：

|  |  |  |
| --- | --- | --- |
| 类型 | 参数名 | 说明 |
| CACollectionView \* | collectionView | 当前collectionView |
| unsigned int | section | section索引值 |

**virtual unsigned int** **collectionViewHeightForHeaderInSection(CACollectionView \*collectionView, unsigned int section) { return 0; }**

返回值：unsigned int

参数：

|  |  |  |
| --- | --- | --- |
| 类型 | 参数名 | 说明 |
| CACollectionView \* | collectionView | 当前collectionView |
| unsigned int | section | section索引值 |

**virtual unsigned int** **collectionViewHeightForFooterInSection(CACollectionView \*collectionView, unsigned int section) { return 0; }**

返回值：unsigned int

参数：

|  |  |  |
| --- | --- | --- |
| 类型 | 参数名 | 说明 |
| CACollectionView \* | collectionView | 当前collectionView |
| unsigned int | section | section索引值 |

**virtual CAView\*** **collectionViewSectionViewForHeaderInSection(CACollectionView \*collectionView, const CCSize& viewSize, unsigned int section){ return NULL; }**

返回值：CAView\*

参数：

|  |  |  |
| --- | --- | --- |
| 类型 | 参数名 | 说明 |
| CACollectionView \* | collectionView | 当前collectionView |
| const CCSize | cellSize | cell的size |
| unsigned int | section | section索引值 |

**virtual CAView\*** **collectionViewSectionViewForFooterInSection(CACollectionView \*collectionView, const CCSize& viewSize, unsigned int section){ return NULL; }**

返回值：CAView\*

参数：

|  |  |  |
| --- | --- | --- |
| 类型 | 参数名 | 说明 |
| CACollectionView \* | collectionView | 当前collectionView |
| const CCSize | cellSize | cell的size |
| unsigned int | section | section索引值 |

**virtual unsigned int** **numberOfItemsInRowsInSection(CACollectionView \*collectionView, unsigned int section, unsigned int row) = 0**

返回值：unsigned int

参数：

|  |  |  |
| --- | --- | --- |
| 类型 | 参数名 | 说明 |
| CACollectionView \* | collectionView | 当前collectionView |
| unsigned int | section | section索引值 |
| unsigned int | row | cell索引值 |

**virtual unsigned int** **collectionViewHeightForRowAtIndexPath(CACollectionView\* collectionView, unsigned int section, unsigned int row) { return 0; }**

返回值：unsigned int

参数：

|  |  |  |
| --- | --- | --- |
| 类型 | 参数名 | 说明 |
| CACollectionView \* | collectionView | 当前collectionView |
| unsigned int | section | section索引值 |
| unsigned int | row | cell索引值 |