


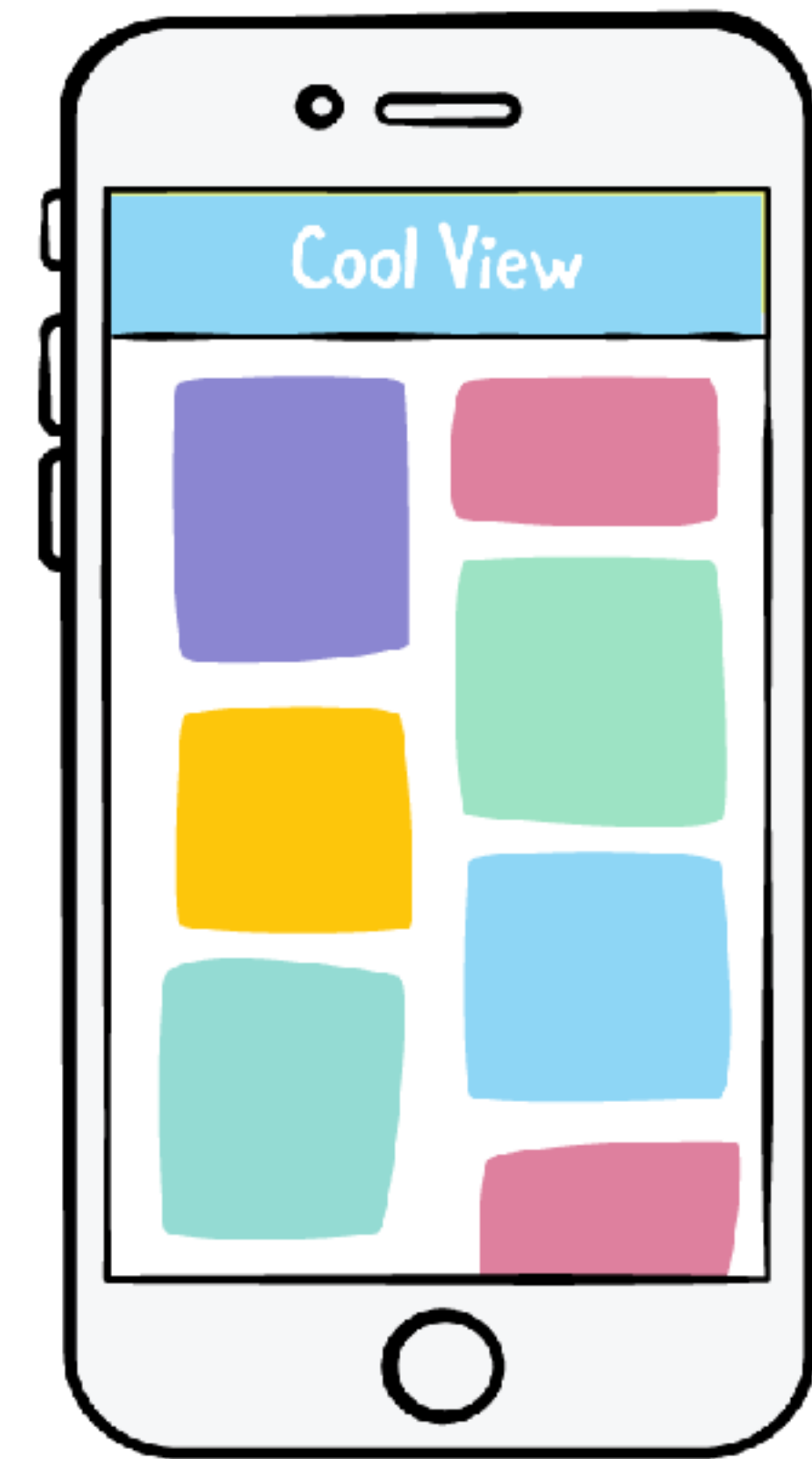


CUSTOM   
COLLECTION  
 VIEW  
LAYOUT 



## PART 8: UICollectionViewLayout BASICS



# WHEN TO USE UICollectionViewLayout

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- ▶ Base class that allows a blank canvas
- ▶ Consider UICollectionViewFlowLayout first
  - ▶ Optimized for efficiency
  - ▶ Adapted in many ways
- ▶ Use UICollectionViewLayout in situations:
  - ▶ Looks nothing like a grid layout
  - ▶ Needs to scroll in more than one direction
  - ▶ Cell position changes frequently



# How UICollectionViewLayout Works

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- ▶ Handful of methods provide core behavior
- ▶ Size of the scrollable content area
- ▶ Attributes for cells and views position
- ▶ Collection view works with custom layout to manage layout process



# How UICollectionViewLayout Works

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- ▶ Key methods called in the following order:

```
override func prepare()
```

- ▶ Perform initial calculations

```
override var collectionViewContentSize : CGSize
```

- ▶ Returns size of the entire content area

```
override func layoutAttributesForElements(in:) -> [UICollectionViewLayoutAttributes]
```

- ▶ Array of attributes for cells and views within rectangle



# XCODE DEMO

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# CUSTOM COLLECTION VIEW LAYOUTS

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