UICollectionView

@maciejoczko

#UICollectionViewWarsaw

INTRO

UICollectionView

UICollectionView

+ Flow Layout

Introduced in

iOS 6

UI != NS

New

UITableView

Sibling of UITableView

UICollectionView

UITableView

UIScrollView

UICollectionView

is mostly about

GRIDS

GRIDS

GRIDS

Four Seasons Bora Bora -
I WILL go here one day

from Condé Nast Traveller

14 21

Added by
Morgan Keys

Added to
Wanderlust

Chairs for the new deck.

from Lowes

9 4

Added by
Ana Todd

Added to
Outside Spaces

Always wanted one of these.

2 6

Added by
Sadia Latifi

Added to
Viva Vespa

Science Says We've Reached "Peak Beard," But Does That Mean You Should Shave?

from GQ

Added by
Makinde Adeagbo

Added to
Men's Style

Basic Cinnamon-Apple Muffins

Beef and Stilton Pie

Butter Chicken

Chicken Schnitzels with Lemon…

Chicken and Prawn Laksa

Chorizo and Chicken Penne

Easy Caesar Salad

Nanaimo Bars

Budapest
Add Frame
1
2
3
4
Budapest
Some facts
A city with a past
Custom Template
Customize Selected
NEW

MORE GRIDS

Motivation | Songs | Tips | Shoes | Clothes | Workouts | Trails | Training

All Pins | Just my Pins

Salomon Start Grip T-Shirt

from REI

14 21

Added by
Makinde Adeagbo

Great trail in Morro Bay.

9 4

Added by
Morgan Keys

Added to
4 minute mile

5k, 10k, and half marathon training

51 6

Added by
Charmaine Ching

Added to
Health

Cloudster from ON. Want to try these on the track

from on-running.com

Added by
Everett Katigbak

Added to
Catch Me If You

Carrier
6:38 AM
100%
Recipes
ALL
DRINKS
BREAKFASTS
MAINS
SALADS
SWEETS & SNACKS
CONDIMENTS
FERMENTED
BODY

Counterparty | Sector | Investments

Monitor Exposures, Manage Risks, Intervene Proactively

Select a counterparty for more details

Counterparty	Total Exposure ($M)	Total Exposure Limit ($M)
First Clearing LLC	80.3	100.0
PNC Bank National Association	49.3	25.0
Charles Schwab & Co Inc	36.8	25.0
KeyBank National Association	28.5	100.0
NSI Stock Lending	26.1	75.0
The Bank of New York	20.7	50.0
Assent LLC	19.0	50.0
Goldman Sachs & Co	17.0	10.0
SSB&T	11.4	75.0
Newedge Canada Inc	10.1	25.0
Citadel Trading Group LLC	9.1	50.0
ITG Inc	8.5	25.0
Maple Securities USA	7.2	75.0
JP Morgan Clearing Corp	6.2	75.0

Long vs. Short Exposure: KeyBank National Association

Counterparty's Exposure: KeyBank National Association

PLAY
20:08
55%
FIFAWORLDCUP

PLAY
18:57
72%
Music
18" Archtop Guitar
custommade.com
SoundTank, haha.
inspire.2ia.pl
Who wants to buy me one? ;)
manzer.com

OTHERS

iTunes U

New Features Added

Best New Apps

See All >

Pinterest
Social Netwo…
FREE

Peppa Pig's Sports Day
Games
4,49 €

Learn French, Spanish, Port…
Education
FREE

Bubl Gelato
Education
1,79 €

Passible: Password Ma…
Productivity
FREE

Barbie® Fashion Desi…
Entertainment
FREE

Official F1® App
Sports
FREE

Popcarte - Send persona…
Lifestyle
FREE

Horizon - Horizontal Vi
Photo & Vide
1,79 €

Best New Games

See All >

PLAY
18:56
72%
Categories
Featured
PASSIBLE
New App
Best New Apps
See All
Learn Frenc…
Education
Free
Pinterest
Social Netw…
Free
Hours Time…
Business
4,49 €
Best New Games
See All
KONAMI
Featured
Top Charts
Near Me
Search
Updates

PLAY
20:08
55%
2014
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Today
Calendars
Inbox

UI

cell

supplementary view

decoration view

cell

Tied to content

No predefined cell styles

New way of creation

supplementary view

Tied to data but separate from cells

View of a *kind*

decoration view

Not tied to content

recap

cell

supplementary view

decoration view

UICollectionView

Layout

Layout

animations

Layout

transitions

Layout

posi

tion

Layout

Subclassing

UICollectionViewLayoutAttributes

UICollectionViewLayoutAttributes

frame

UICollectionViewLayoutAttributes

frame

alpha

UICollectionViewLayoutAttributes

frame

alpha

zIndex

UICollectionViewLayoutAttributes

frame

alpha

center

zIndex

UICollectionViewLayoutAttributes

frame

size

alpha

center

zIndex

UICollectionViewLayoutAttributes

frame

size

alpha

center

hidden

zIndex

UICollectionViewLayoutAttributes

frame

size

alpha

center

hidden

zIndex

transform3D

recap

Layout

animations

transitions

positioning

subclassing

Collection

UICollectionView DataSource

DataSource

numberOfSectionsInCollectionView:

collectionView:numberOfItemsInSection:

collectionView:cellForItemAtIndexPath:

collectionView:viewForSupplementaryElementOfKind:
atIndexPath:

DataSource

numberOfSectionsInCollectionView:

collectionView:numberOfItemsInSection:

collectionView:cellForItemAtIndexPath:

collectionView:viewForSupplementaryElementOfKind:
atIndexPath:

collectionView:cellForItemAtIndexPath:

```
{
  MyCell *cell = [collectionView
  dequeueReusableCellWithReuseIdentifier:@”MY_CELL_ID”];
  if (!cell) {
    cell = . . .
  }
  // Configure the cell's content
  return cell;
}
```

collectionView:cellForItemAtIndexPath:

```
{
  MyCell *cell = [collectionView
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collectionView:cellForItemAtIndexPath:

```
{
  MyCell *cell = [collectionView
  dequeueReusableCellWithReuseIdentifier:@”MY_CELL_ID”
                                forIndexPath:indexPath];
  // Configure the cell's content
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}
```

collectionView:cellForItemAtIndexPath:

```
{
  MyCell *cell = [collectionView
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                                forIndexPath:indexPath];
  // Configure the cell's content
  return cell;
}
```

```
[collectionView registerClass:[MyCell class]
   forCellWithReuseIdentifier:@“MY_CELL_ID”]
```

```
[collectionView registerClass:[MyCell class]
   forSupplementaryViewOfKind:@“MY_KIND”
         withReuseIdentifier:@“MY_CELL_ID”]
```

```
[collectionView registerClass:[MyCell class]
      forDecorationViewOfKind:@“MY_KIND”
```

The same pattern in UITableView since iOS6

View

UICollectionView Delegate

Delegate

Selection & highlight tracking callbacks

Tracking the removal of views

Layout transition callback

Menu actions callbacks

Flow Layout

UICollectionView

Flow Layout

Line oriented

Layout

grid OR

group of lines

Predefined supplementary views

HEADER

FOOTER

Customization

itemSize

minimum inter item spacing

minimum line spacing

HORIZONTAL

VERTICAL

scroll direction

HEADER

reference sizes

FOOTER

section insets

setting values

UICollectionViewFlowLayout

instance properties

UICollectionViewDelegateFlowLayout

Flow Layout is

Powerful

Thanks!

@maciejoczko

Q&A

CREDITS

screenshots: native apps & AppStore

color palette: electrikmonk

http://www.colourlovers.com/palette/1930/cheer_up_emo_kid

https://github.com/literator/UICollectionViewWorkshop