

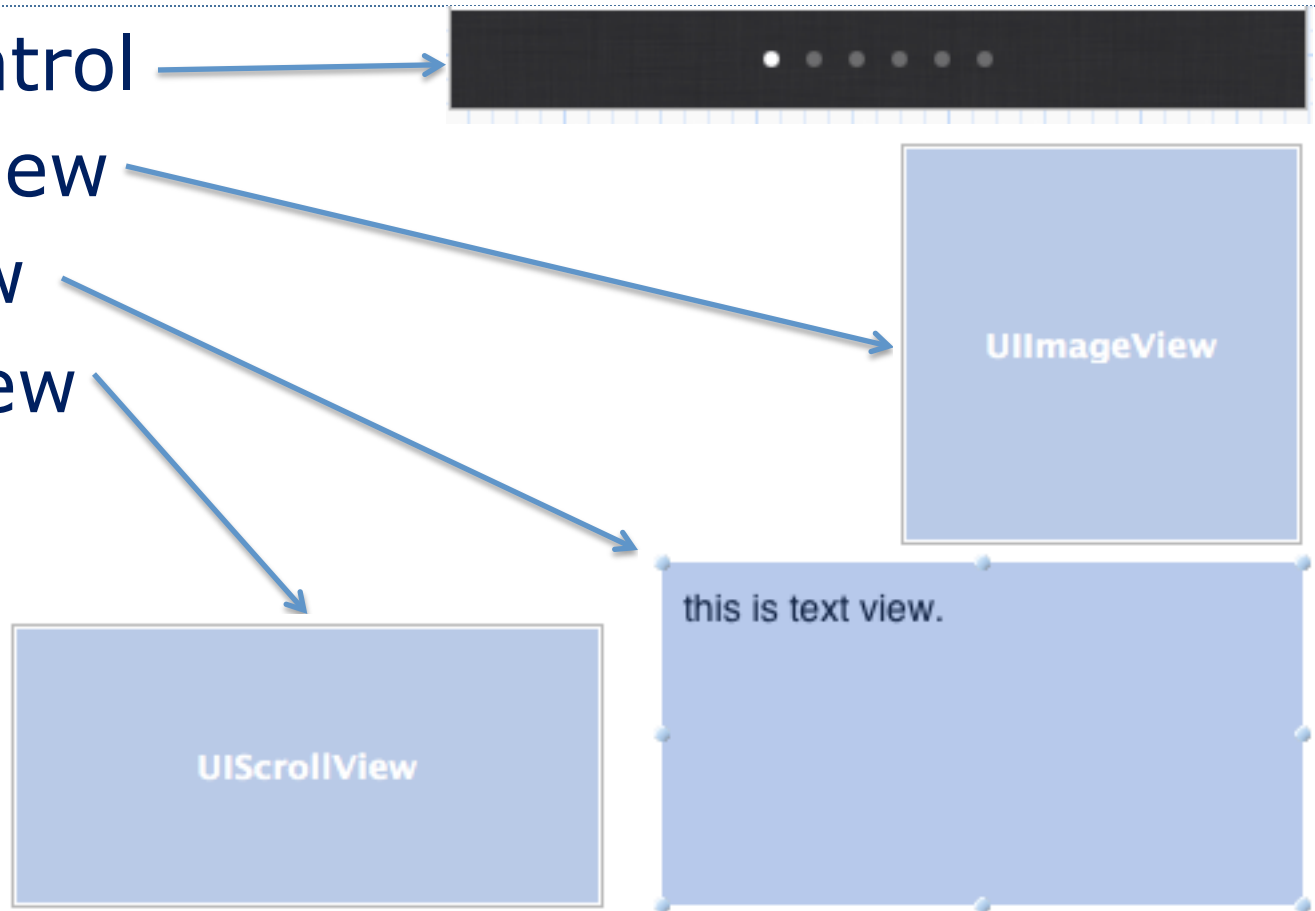


Lập trình ứng dụng trên iOS

Page control, Image view,
Text view, Scroll view

Nội dung

- Page control
- Image view
- Text view
- Scroll view





Page control



- numberOfPages
- currentPage
- hidesForSinglePage
- updateCurrentPageDisplay

- Ví dụ:

```
pageCtrl = [[UIPageControl alloc] initWithFrame:CGRectMake(20.0, 100.0, 280, 50)];  
[pageCtrl addTarget:self action:@selector(pageChanged:) forControlEvents:  
    UIControlEventTouchUpInside];  
pageCtrl.numberOfPages = 15;  
pageCtrl.currentPage = 0;  
pageCtrl.defersCurrentPageDisplay = YES;  
[pageCtrl updateCurrentPageDisplay];
```



Image view

UIImageView

- Khởi tạo đối tượng UIImageView
- Image data
- Animating Images
- Setting và Getting thuộc tính





Image view

UIImageView

- Khởi tạo đối tượng UIImageView:
 - (id)initWithImage:(UIImage *)image
 - (id)initWithImage:(UIImage *)image highlightedImage:(UIImage *)highlightedImage



Image view

UIImageView

- Image data:
 - + (UIImage *)imageWithData:(NSData *)data
 - @property(nonatomic, retain) UIImage *highlightedImage



Image view

UIImageView

- Animating Images:
 - @property(nonatomic, copy) NSArray *animationImages
 - @property(nonatomic, copy) NSArray *highlightedAnimationImages
 - @property(nonatomic) NSTimeInterval animationDuration
 - @property(nonatomic) NSInteger animationRepeatCount
 - (void)startAnimating
 - (void)stopAnimating
 - (BOOL)isAnimating



Image view

UIImageView

- Setting và Getting thuộc tính
 - @property(nonatomic, getter=isEnabled) BOOL isEnabled
 - @property(nonatomic, getter=isSelected) BOOL isSelected



Image

- Khởi tạo ảnh:
 - (id)initWithContentsOfFile:(NSString *)path
 - (id)initWithData:(NSData *)data
- Tải hình ảnh lưu trữ
 - + (UIImage *)imageNamed:(NSString *)name
- Tạo mới ảnh:
 - + (UIImage *)imageWithContentsOfFile:(NSString *)path
 - + (UIImage *)imageWithData:(NSData *)data
 - ...
- Thuộc tính ảnh:
 - @property(nonatomic, readonly) CGSize size
 - @property(nonatomic, readonly) CGFloat scale
 - @property(nonatomic, readonly) NSArray *images

Image

- Những định dạng ảnh:

Format	Filename extensions
Tagged Image File Format (TIFF)	.tiff, .tif
Joint Photographic Experts Group (JPEG)	.jpg, .jpeg
Graphic Interchange Format (GIF)	.gif
Portable Network Graphic (PNG)	.png
Windows Bitmap Format (DIB)	.bmp, .BMPf
Windows Icon Format	.ico
Windows Cursor	.cur
XWindow bitmap	.xbm



Image view

UIImageView

- Ví dụ 1:

```
UIImageView *imageView = [[UIImageView alloc] initWithFrame:CGRectMake(10, 10, 200, 200)];  
imageView.image = [UIImage imageNamed:@"baby.png"];
```

- Ví dụ 2:

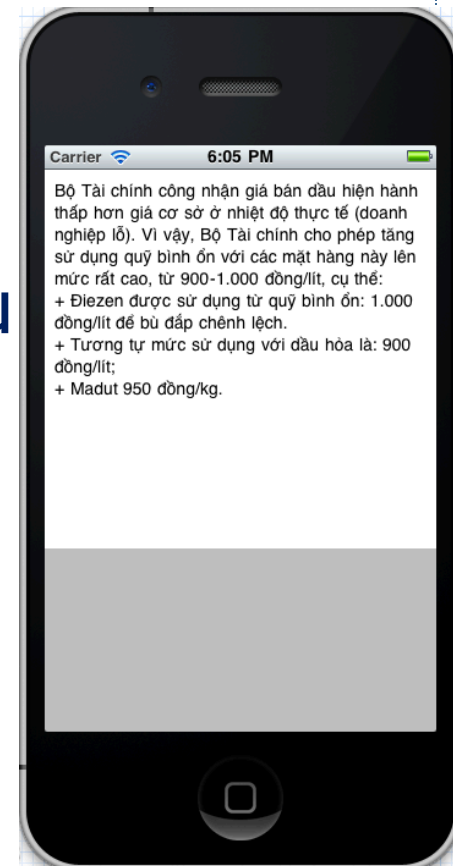
```
UIImageView *imageView = [[UIImageView alloc] initWithFrame:CGRectMake(5, 5, 310, 100)];  
imageView.image = [UIImage imageData:[NSData dataWithContentsOfURL:[NSURL URLWithString:  
    @"http://t3h.vn/images/logo.gif"]]]];
```



Text view

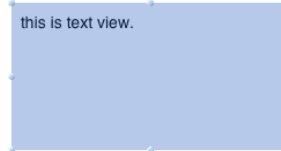
this is text view.

- Thuộc tính text
- Làm việc với lựa chọn
- Truy cập các delegate
- Thay đổi hệ thống view nhập liệu





Text view



- Thuộc tính text
 - @property(nonatomic, copy) NSString *text
 - @property(nonatomic, retain) UIFont *font
 - @property(nonatomic, retain) UIColor *textColor
 - @property(nonatomic, getter=isEditable) BOOL editable
 - @property(nonatomic) NSTextAlignment textAlignment
 - ...



Text view

this is text view.

- Làm việc với lựa chọn
 - @property(nonatomic) NSRange selectedRange
 - (void)scrollRangeToVisible:(NSRange)range



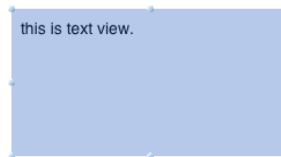
Text view

this is text view.

- Truy cập các delegate
 - @property(nonatomic, assign) id<UITextViewDelegate> delegate
 - Nhóm đáp trả lại thông báo chỉnh sửa
 - (BOOL)textViewShouldBeginEditing:(UITextView *)textView
 - (void)textViewDidBeginEditing:(UITextView *)textView
 - (BOOL)textViewShouldEndEditing:(UITextView *)textView
 - (void)textViewDidEndEditing:(UITextView *)textView
 - Nhóm đáp trả lại text thay đổi
 - (BOOL)textView:(UITextView *)textView shouldChangeTextInRange:(NSRange)range replacementText:(NSString *)text
 - (void)textViewDidChange:(UITextView *)textView
 - Nhóm đáp trả thay đổi lựa chọn
 - (void)textViewDidChangeSelection:(UITextView *)textView



Text view



- Thay đổi hệ thống view nhập liệu
 - @property (readwrite, retain) UIView *inputView
 - @property (readwrite, retain) UIView *inputAccessoryView



Scroll view

UIScrollView

- Quản lý hiển thị nội dung
- Quản lý scrolling
- Quản lý scroll indicator
- Zooming và Panning
- Delegate



Scroll view

UIScrollView

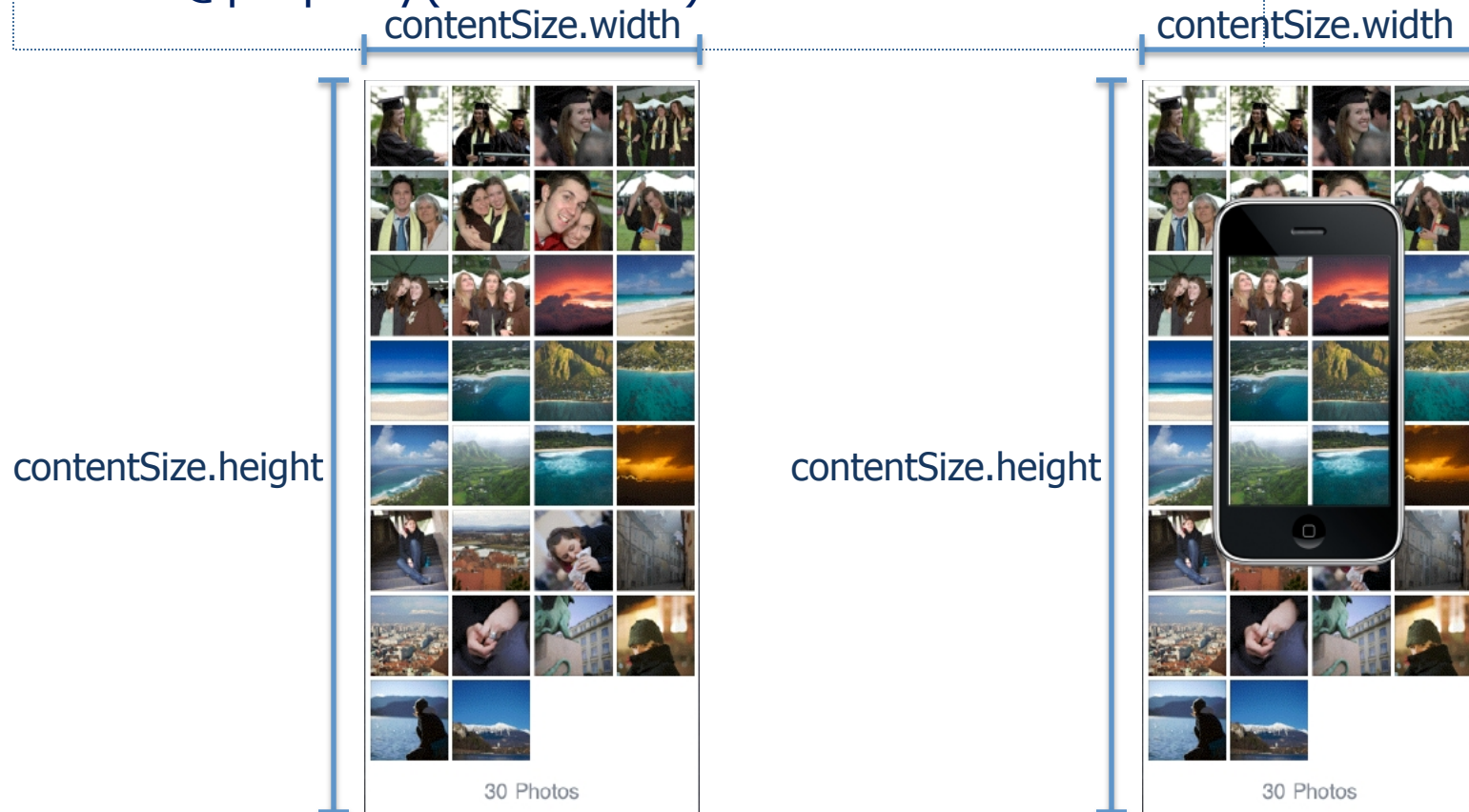
- Quản lý hiển thị nội dung
 - (void)setContentOffset:(CGPoint)contentOffset animated:(BOOL)animated
- @property(nonatomic) CGPoint contentOffset
 - @property(nonatomic) UIEdgeInsets contentInset



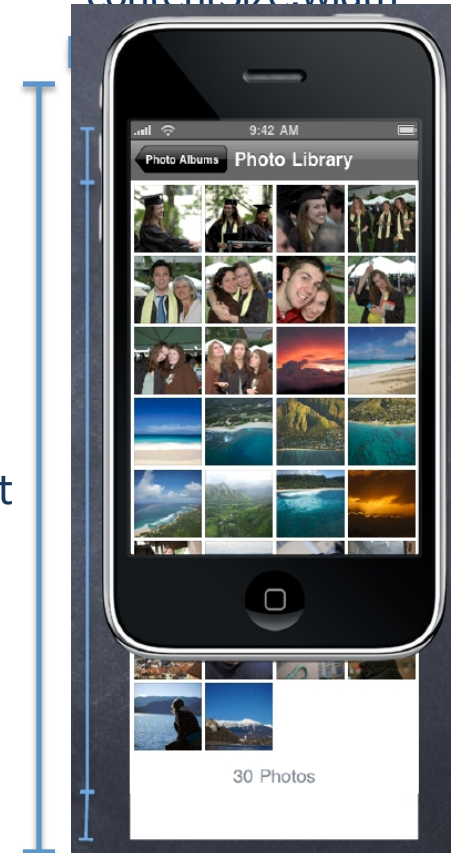
Scroll view

UIScrollView

- Quản lý hiển thị nội dung
 - @property(nonatomic) CGPoint contentOffset



- ## contentSize.width





Scroll view

UIScrollView

- Quản lý scrolling
 - @property(nonatomic, getter=isEnabled) BOOL scrollEnabled
 - @property(nonatomic, getter=isDirectionalLockEnabled) BOOL directionalLockEnabled
 - @property(nonatomic) BOOL scrollsToTop
 - @property(nonatomic, getter=isPagingEnabled) BOOL pagingEnabled
 - @property(nonatomic, readonly, getter=isDragging) BOOL dragging
 - ...



Scroll view

UIScrollView

- Quản lý scroll indicator
 - @property(nonatomic) UIScrollViewIndicatorStyle indicatorStyle
 - @property(nonatomic) UIEdgeInsets scrollIndicatorInsets
 - @property(nonatomic) BOOL showsHorizontalScrollIndicator
 - @property(nonatomic) BOOL showsVerticalScrollIndicator
 - (void)flashScrollIndicators



Scroll view

UIScrollView

- Zooming và Panning
 - @property(nonatomic, readonly) UIPanGestureRecognizer *panGestureRecognizer
 - @property(nonatomic, readonly) UIPinchGestureRecognizer *pinchGestureRecognizer
 - @property(nonatomic) float zoomScale
 - @property(nonatomic) float maximumZoomScale
 - @property(nonatomic) float minimumZoomScale
 - @property(nonatomic, readonly, getter=isZooming) BOOL zooming
 - ...



Scroll view

UIScrollView

- Delegate
 - @property(nonatomic, assign) id<UIScrollViewDelegate> delegate
 - Nhóm đáp trả scrolling và dragging
 - Quản lý Zooming
 - Nhóm đáp trả Scrolling animations



Scroll view

UIScrollView

- Delegate
 - Nhóm đáp trả scrolling và dragging
 - (void)scrollViewDidScroll:(UIScrollView *)scrollView
 - (void)scrollViewWillBeginDragging:(UIScrollView *)scrollView
 - (void)scrollViewWillEndDragging:(UIScrollView *)scrollView withVelocity:(CGPoint)velocity targetContentOffset:(inout CGPoint *)targetContentOffset
 - (void)scrollViewDidEndDragging:(UIScrollView *)scrollView willDecelerate:(BOOL)decelerate
 - (BOOL)scrollViewShouldScrollToTop:(UIScrollView *)scrollView
 - (void)scrollViewDidScrollToTop:(UIScrollView *)scrollView
 - (void)scrollViewWillBeginDecelerating:(UIScrollView *)scrollView
 - (void)scrollViewDidEndDecelerating:(UIScrollView *)scrollView



Scroll view

UIScrollView

- Delegate
 - Quản lý Zooming
 - (UIView *)viewForZoomingInScrollView:(UIScrollView *)scrollView
 - (void)scrollViewWillBeginZooming:(UIScrollView *)scrollView withView:(UIView *)view
 - (void)scrollViewDidEndZooming:(UIScrollView *)scrollView withView:(UIView *)view atScale:(float)scale
 - (void)scrollViewDidZoom:(UIScrollView *)scrollView



Scroll view

UIScrollView

- Delegate
 - Nhóm đáp trả Scrolling animations
 - (void)scrollViewDidEndScrollingAnimation:(UIScrollView *)scrollView