

Tùy biến giao diện trên iOS



Nội dung

- Tổng quan
- Một số thủ thuật chung
- Tuỳ biến giao diện trên iOS



Tổng quan



Tổng quan



Trung tâm Tin học – ĐH Khoa Học Tự Nhiên HCM



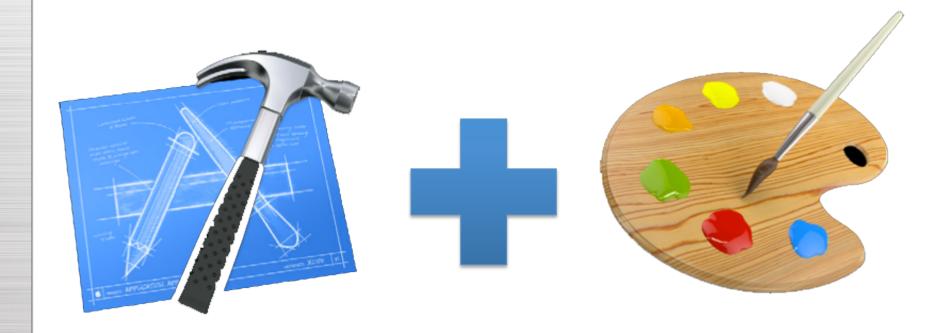


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Logs



Tổng quan







- Artwork
- Separating
- Resizable images
- Stretching vs Tiling
- Cap widths
- Alignment insets



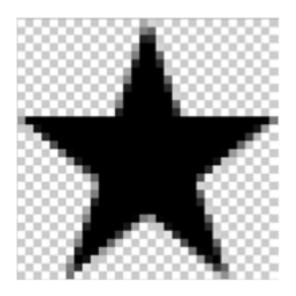
Artwork





Artwork





star.pmg



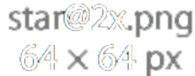
Artwork





star.png 32 × 32 px







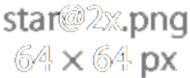
Artwork





star.png 32 × 32 px







Artwork





switch@2x

. png . png switch@2x

.png

[UIImage imageName:@"switch"];



Separating



Tap



Separating



Tap



Separating









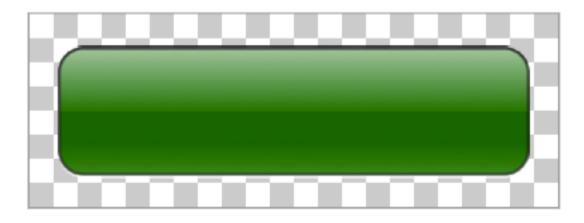




Separating











Resizable images



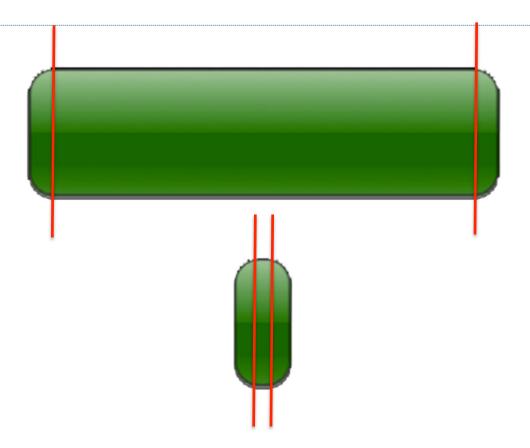


Resizable images

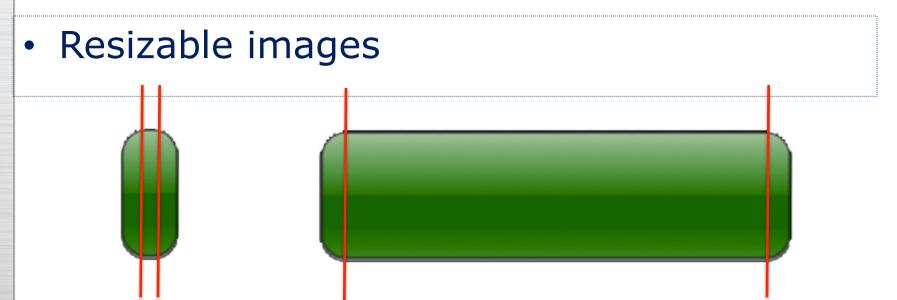




Resizable images







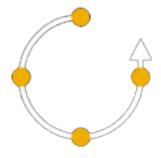
- (UIImage *)resizableImageWithCapInsets:(UIEdgeInsets) capInsets;



• Resizable images

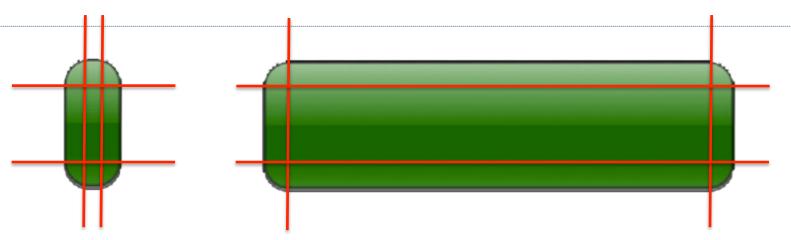
- (UIImage *)resizableImageWithCapInsets:(UIEdgeInsets) capInsets;

UIEdgeInsetsMake(top, left, bottom, right);



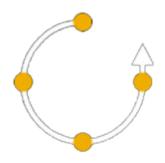


Resizable images

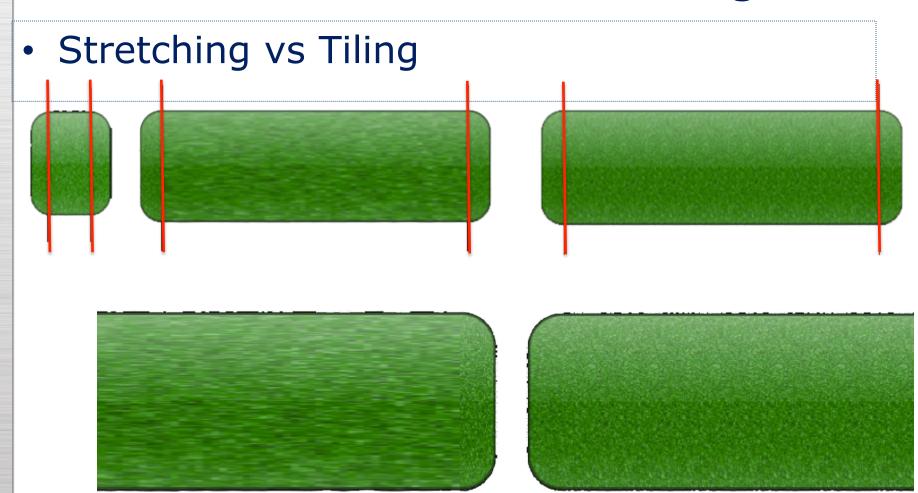


- (UIImage *)resizableImageWithCapInsets:(UIEdgeInsets) capInsets;

UIEdgeInsetsMake(top, left, bottom, right);

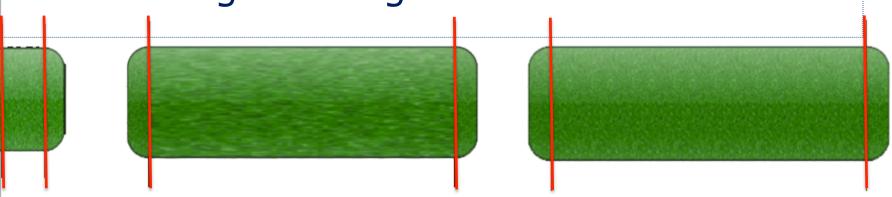








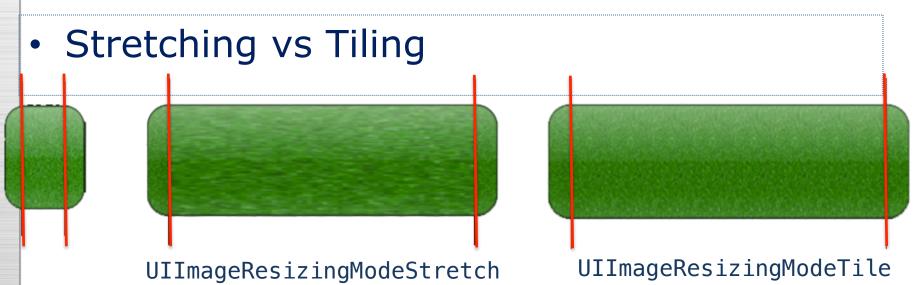
Stretching vs Tiling



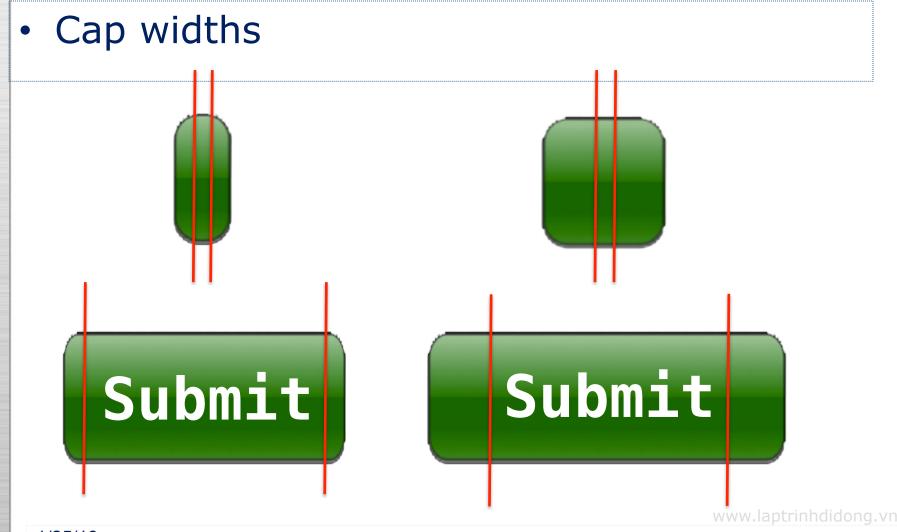
|- (UIImage *)resizableImageWithCapInsets:(UIEdgeInsets) capInsets;





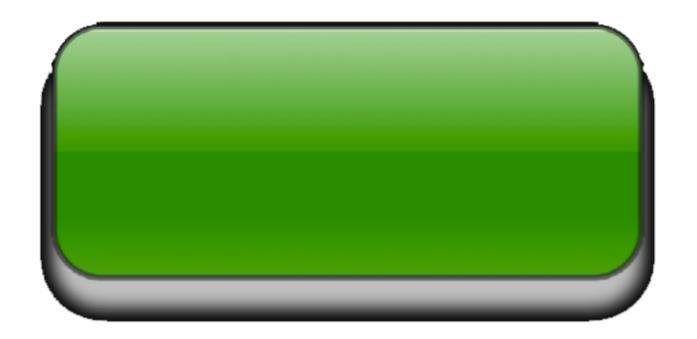






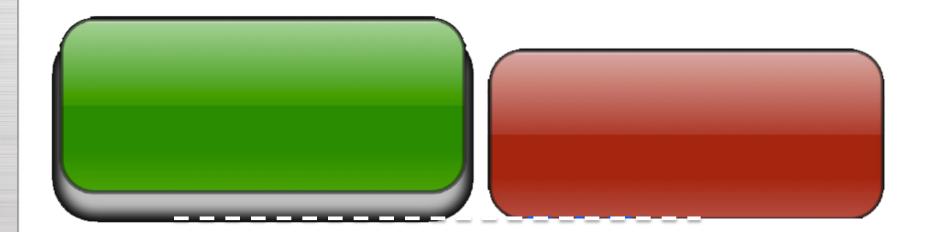


Alignment insets



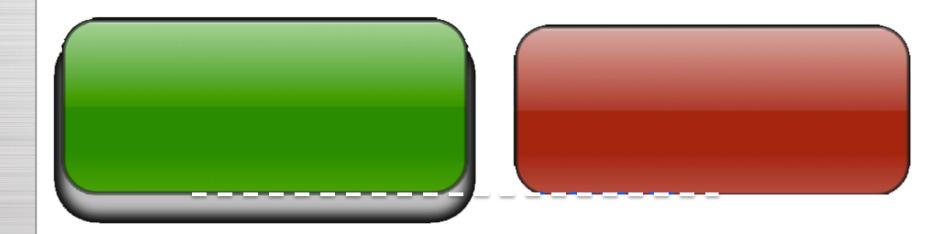


Alignment insets



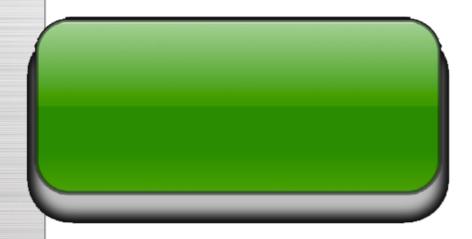


Alignment insets





Alignment insets

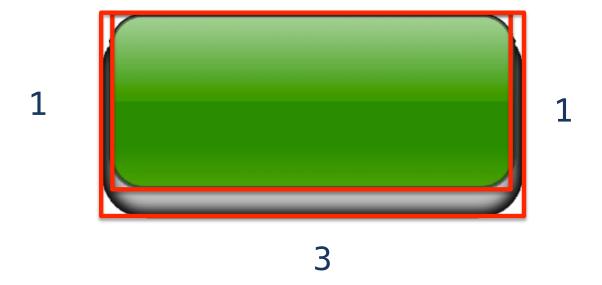


imageWithAlignmentRectInsets



Alignment insets

0



UIEdgeInsetsMake(0, 1, 3, 1)

- (UIImage *)imageWithAlignmentRectInsets:
- (UIEdgeInsets) alignmentInsets;

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Small buttons

1x



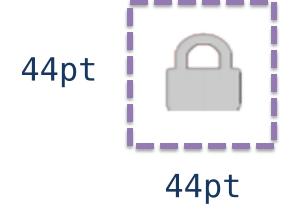
Toolbar icon NavigationBar icon

30pt 30pt

Tab bar icon

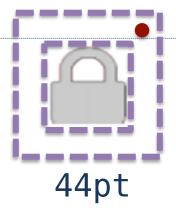


Small buttons





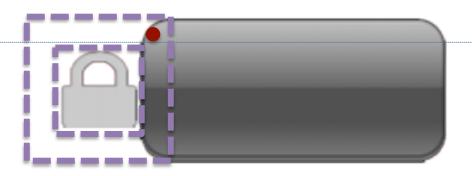
Small buttons



```
- (B00L)pointInside:(CGPoint)point withEvent:(UIEvent *)event {
          CGFloat widthDelta = 44.0 - bounds.size.width;
          CGFloat heightDelta = 44.0 - bounds.size.height;
          bounds = CGRectInset(bounds, -0.5 * widthDelta, -0.5 *
heightDelta); return CGRectContainsPoint(bounds, point);
}
```



Small buttons

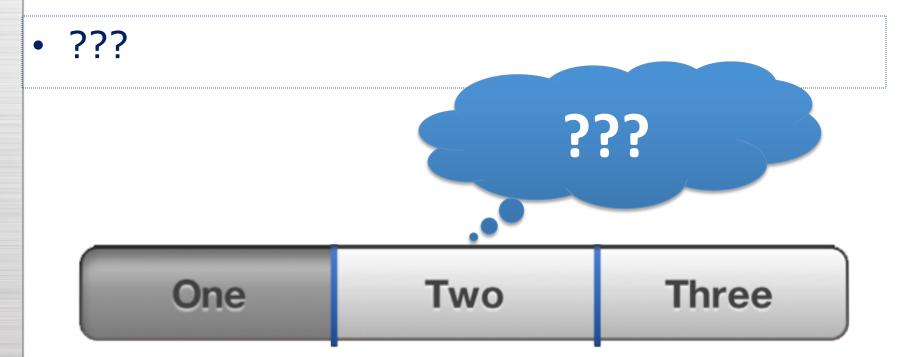


```
- (B00L)pointInside:(CGPoint)point withEvent:(UIEvent *)event {
          CGFloat widthDelta = 44.0 - bounds.size.width;
          CGFloat heightDelta = 44.0 - bounds.size.height;
          bounds = CGRectInset(bounds, -0.5 * widthDelta, -0.5 *
heightDelta); return CGRectContainsPoint(bounds, point);
}
```



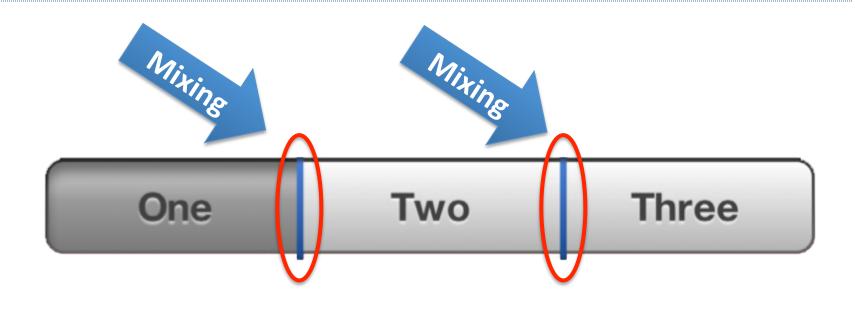
- Use standard controls
 - Very customizable
 - Standard behavior
 - Get improvement







Mixing





Mixing

One Two Three
One Two Three



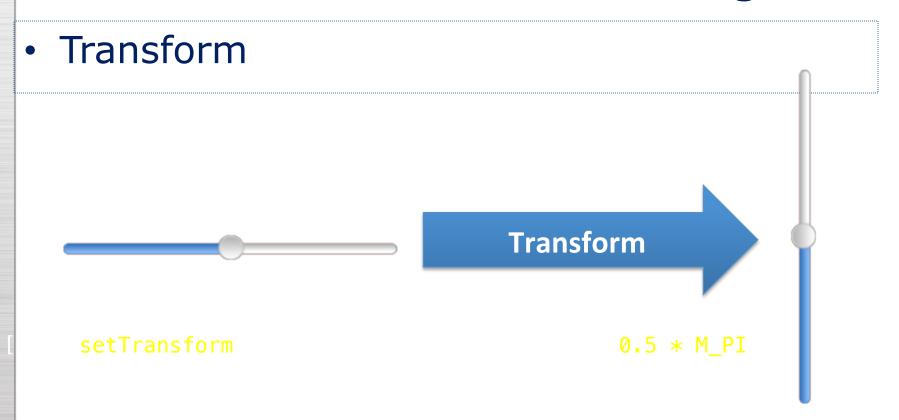
Mixing

One Two Three
One Two Three



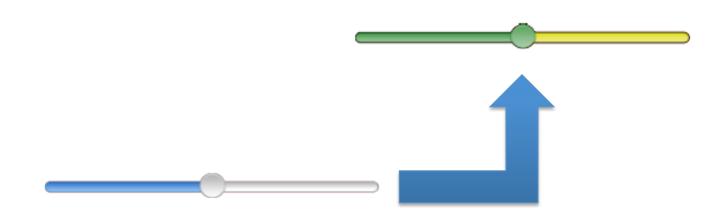
• ???





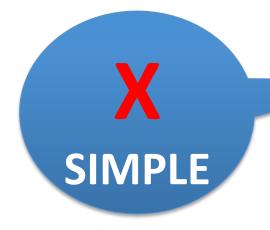


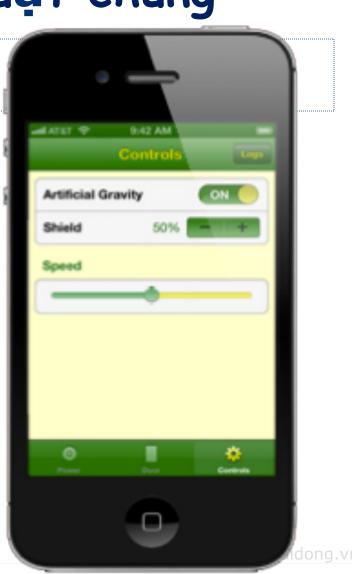
Tint color





Tint color





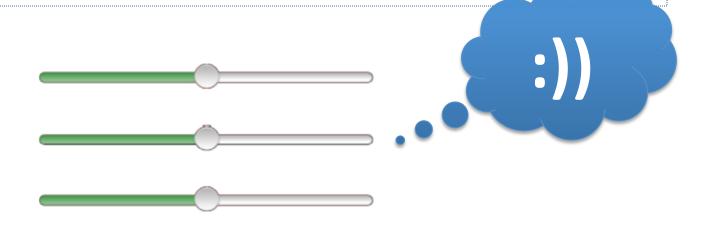


• ???

[slider setMinimumTrackTintColor:color];



Appearance proxy



[[UISlider appearance]setMinimumTrackTintColor:color];



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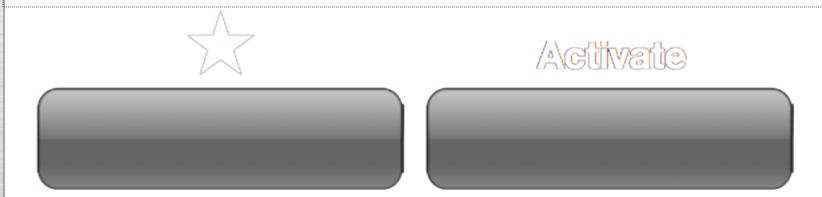
UIButton

Activate



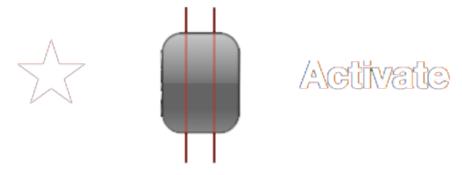


UIButton





UIButton



- (void)setBackgoundImage:(UIImage *)backgroundImage
 forState:(UIControlState)state;



UIButton





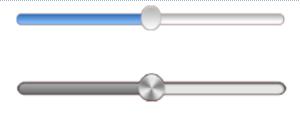
UIControlStateDisabled

UIControlStateSelected

UIControlStateHighlighted | UIControlStateSelected



UISlider



- thumbImageForState
- minimumTrackImageForState
- maximumTrackImageForState

```
[[UISlider appearance] setMaximumTrackImage:[UIImage
imageNamed:@"slider-max-track.png"]
forState:UIControlStateNormal];
[[UISlider appearance] setMinimumTrackImage:[UIImage
imageNamed:@"slider-min-track.png"]
forState:UIControlStateNormal];
[[UISlider appearance] setThumbImage:[UIImage imageNamed:@"slider-thumb.png"] forState:UIControlStateNormal];
```



UISegmentedControl



backgroundImage --> Selected

dividerImage



backgroundImage --> Normal

```
[[UISegmentedControl appearance] setBackgroundImage:[UIImage
imageNamed:@"segment-normal.png"] forState:UIControlStateNormal
barMetrics:UIBarMetricsDefault];
[[UISegmentedControl appearance] setBackgroundImage:[UIImage
imageNamed:@"segment-selected.png"]
forState:UIControlStateSelected barMetrics:UIBarMetricsDefault];
[[UISegmentedControl appearance] setDividerImage:[UIImage
imageNamed:@"segment-divider.png"] forLeftSegmentState:
UIControlStateNormal rightSegmentState: UIControlStateNormal
barMetrics: UIBarMetricsDefault];
```



• UIProgressView

trackImage

progressImage

```
[[UIProgressView appearance] setTrackImage:[UIImage
imageNamed:@"progress-track.png"]];
     [[UIProgressView appearance] setProgressImage:[UIImage
imageNamed:@"progress-progress.png"]];
```



Q&A

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