

Autolayout Anchors

<u>참고 링크</u>



Programmatically Creating Constraints
https://developer.apple.com/library/content/documentation/UserExperience/Conceptual/AutolayoutPG/ProgrammaticallyCreatingConstraints.html

NSLayoutAnchor Document https://developer.apple.com/documentation/uikit/nslayoutanchor

Easier Auto Layout: Coding Constraints in iOS 9 https://www.raywenderlich.com/125718/coding-auto-layout

NSLayoutConstraint



```
// Creating constraints using NSLayoutConstraint
NSLayoutConstraint(item: subview,
                   attribute: .leading,
                   relatedBy: .equal,
                   toItem: view,
                   attribute: .leadingMargin,
                   multiplier: 1.0,
                   constant: 0.0).isActive = true
NSLayoutConstraint(item: subview,
                   attribute: .trailing,
                   relatedBy: .equal,
                   toItem: view,
                   attribute: .trailingMargin,
                   multiplier: 1.0,
                   constant: 0.0).isActive = true
```

NSLayoutAnchor



iOS 9.0 이상에서 사용 가능

```
// Creating the same constraints using Layout Anchors
let margins = view.layoutMarginsGuide
subview.leadingAnchor.constraint(equalTo: margins.leadingAnchor).isActive = true
subview.trailingAnchor.constraint(equalTo: margins.trailingAnchor).isActive = true
```

Horizontal Layout Anchors



View 의 수평선, X축에 관련된 제약조건 NSLayoutXAxisAnchor 클래스의 객체

- Leading anchor
- Trailing anchor Simmulator 등에서 11-741 test 全 公定
- Left anchor
- Right anchor
- Center-X anchor

view.leadingAnchor
.constraint(equalTo: NSLayoutAnchor<NSLayoutXAxisAnchor>)

Vertical Layout Anchors



View 의 수직선, Y축에 관련된 제약조건 NSLayoutYAxisAnchor 클래스의 객체

- Top anchor
- Bottom anchor
- Center-Y anchor
- First baseline anchor
- Last baseline anchor

view.topAnchor
.constraint(equalTo: NSLayoutAnchor<NSLayoutYAxisAnchor>)

Dimension Layout Anchors



View 의 크기 정의

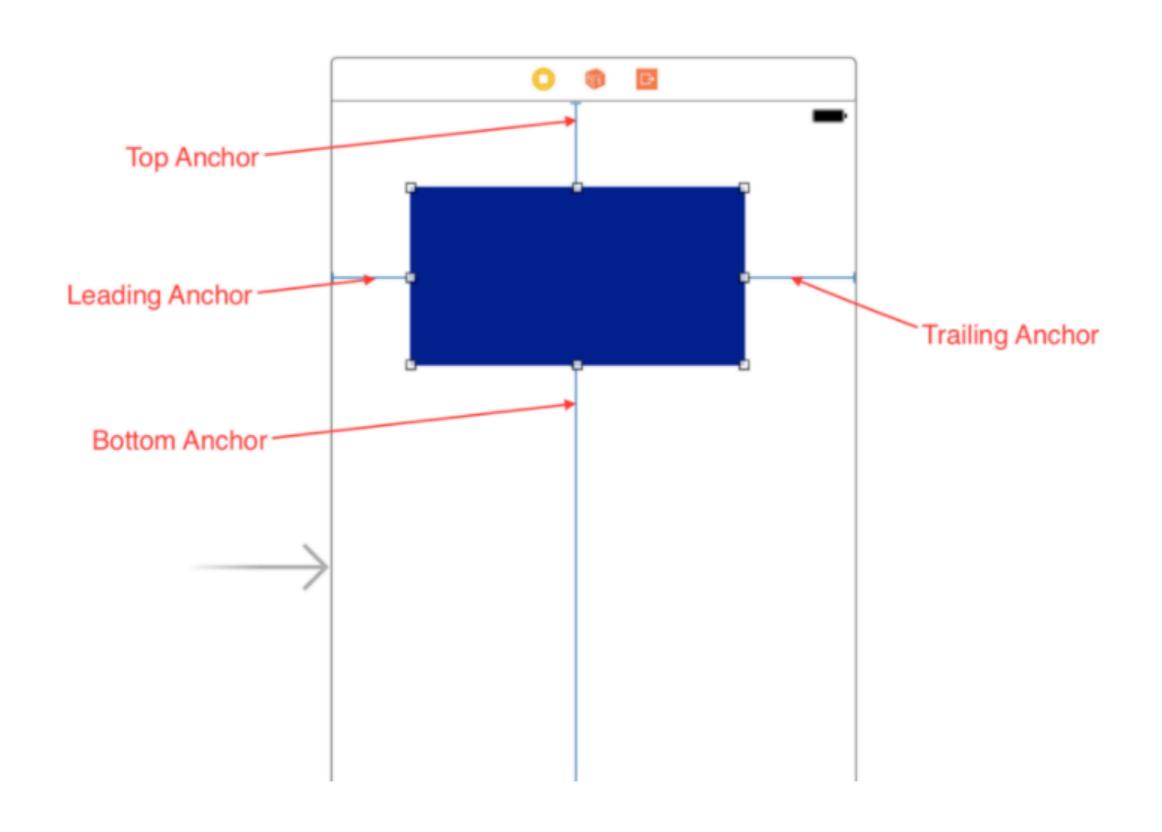
NSLayoutDimension 클래스의 객체

- Width anchor
- Height anchor

view.widthAnchor
.constraint(equalToConstant: CGFloat)

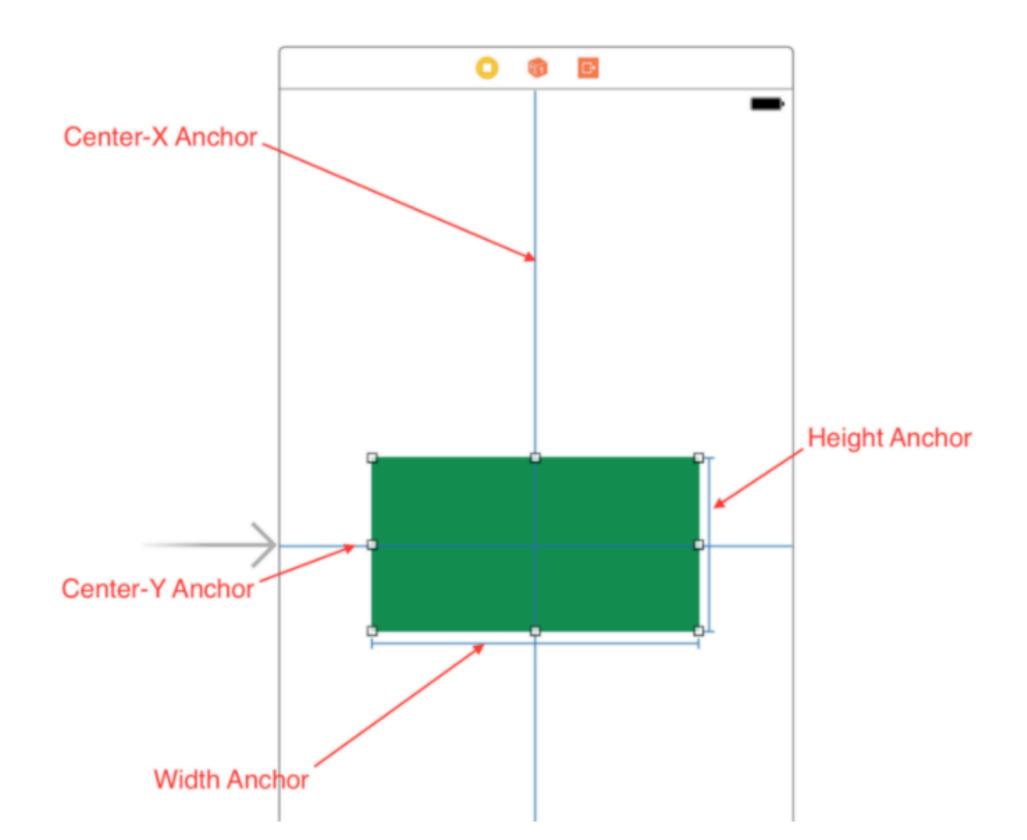
Basic Layout Constraints





Dimension & Center X,Y Layout





First, Last Baseline Constraints



