Autolayout Anchors

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참고 링크

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

```swift
// 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

```swift
// 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**
- **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>)
```
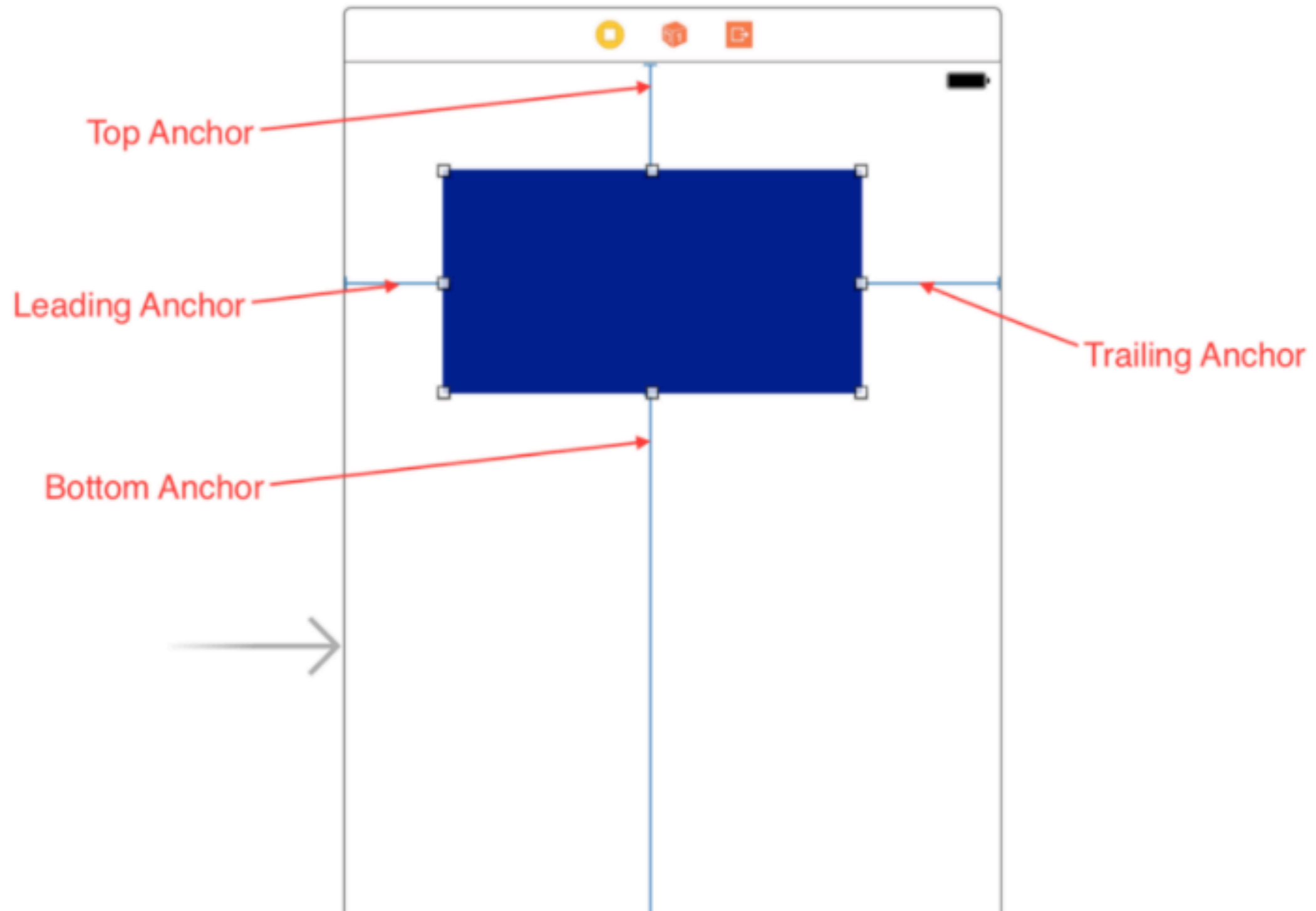
Dimension Layout Anchors

> **View 의 크기 정의**
>
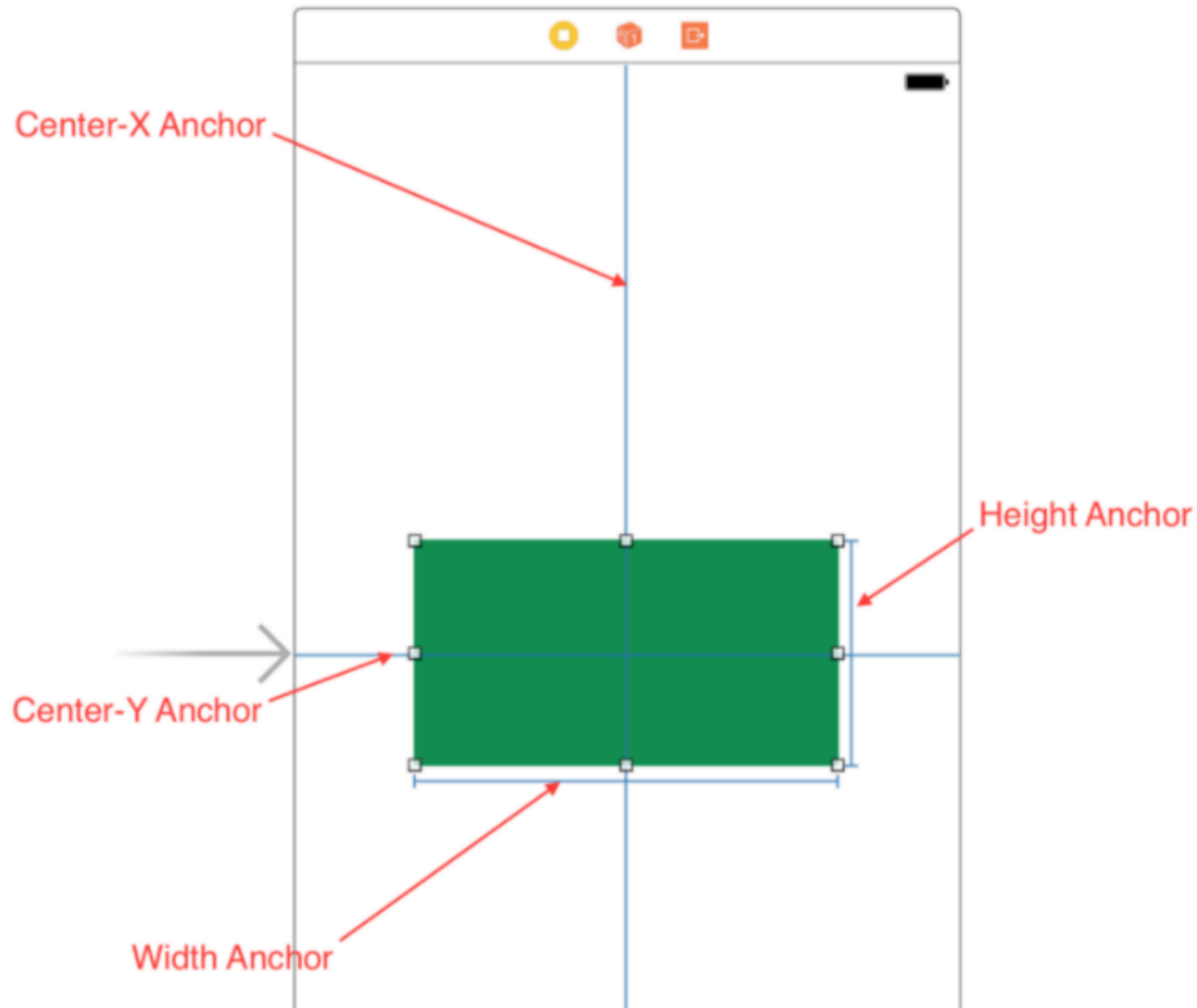> **NSLayoutDimension 클래스의 객체**

- **Width anchor**
- **Height anchor**

```
view.widthAnchor
    .constraint(equalToConstant: CGFloat)
```

Basic Layout Constraints

Dimension & Center X,Y Layout

First, Last Baseline Constraints