



캡스톤디자인 I (BMI:Body Mass Index)

구명완교수

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Create the Project

- Size Class

- Work with different layout without concern whether it's iPhone, iPad
- To specify constraints and components for different device types
 - Do not need to code any run-time checks for device type
- P: Portrait, L: landscape

		width		
		Compact	Any	Regular
Height	Compact	iPhone 3GS-6 L	All iPhone P	iPhone6+ L
	Any	iPhone 3GS-6 L	All Devices P&L	iPad(P&L)
	Regular	All iPhone P	All iPhone P + iPads(P&L)	iPad(P&L)



Create the Project

- Size Class
 - For device centric view : (Width, Height)

	Portrait	Landscape
iPhone 3GS - 6	(C,R)	(C,C)
iPhone 6+	(C,R)	(R,C)
iPad	(R,R)	(R,R)

- Starting: For all iPhones in portrait
 - Compact width, Regular Height
 - Expand to iPad(R,R) using Constraints for iPhones



Create the Project

- Size



Create the Project

- Create the project BMI

Choose options for your new project:

Product Name:

Organization Name:

Organization Identifier:

Bundle Identifier: kr.ac.sogang.cscp2.prof.BMI

Language: ▼

Devices: ▼

Use Core Data

Cancel

Previous

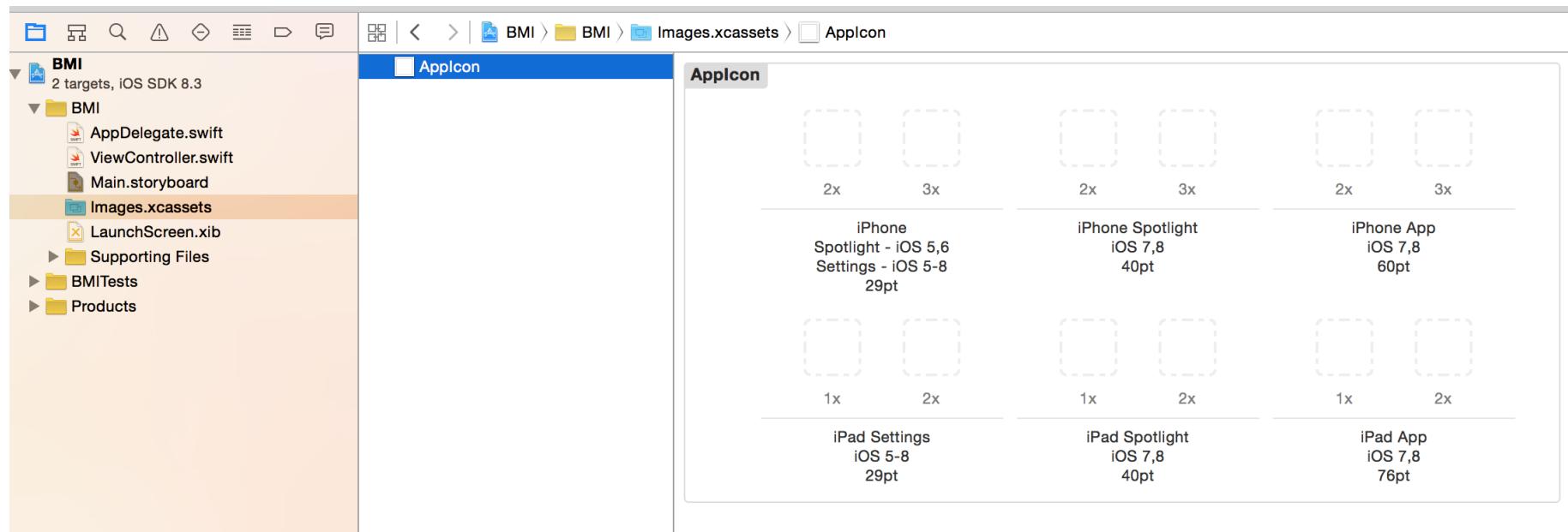
Next



Importing Graphic Asset

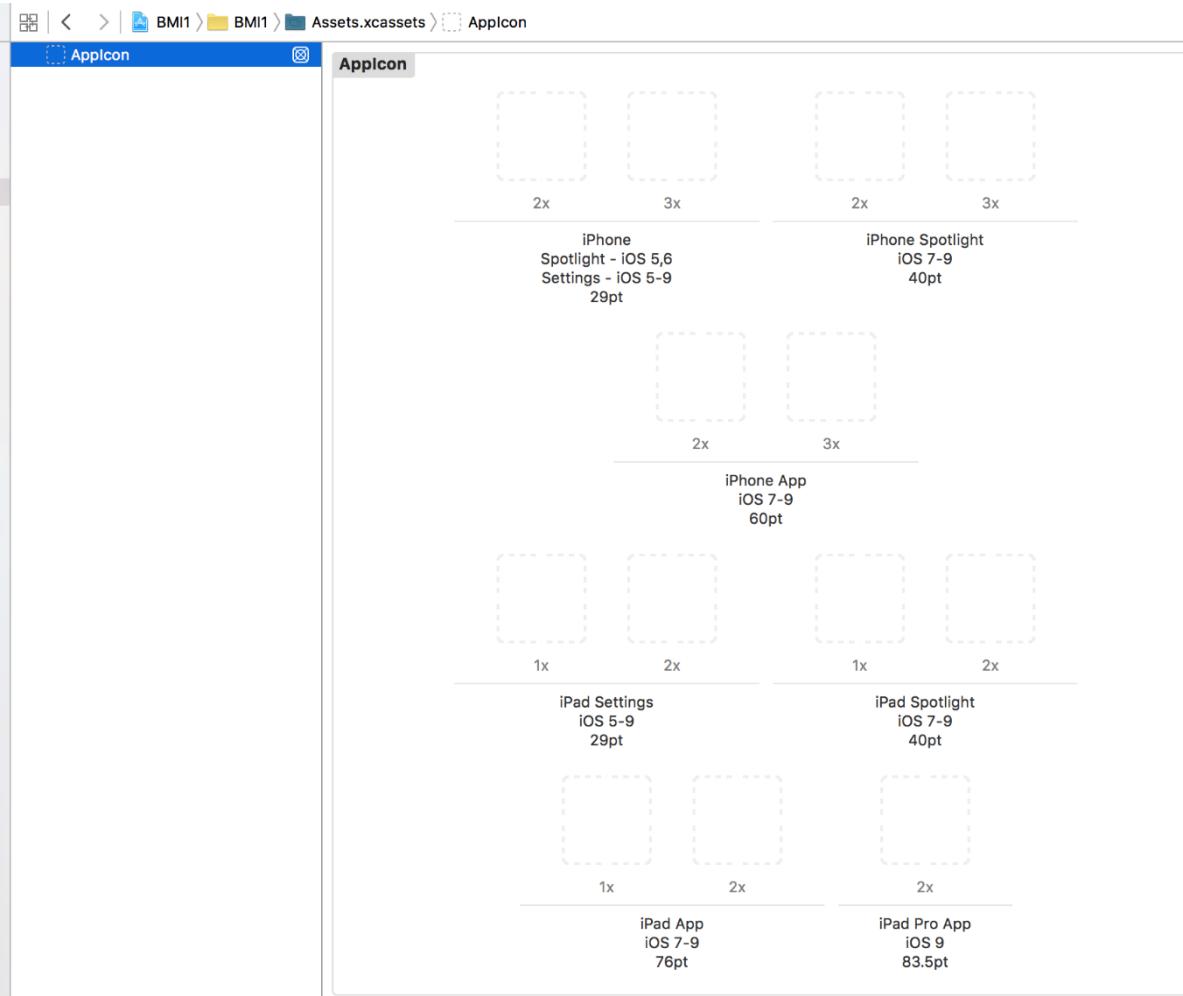
- Asset Library

- Container for images of different resolution (1x, 2x, 3x)
- The best resolution image is selected automatically at run-time



Importing Graphic Asset

- Asset Library



Importing Graphic Asset

● Image for iPhone

The screenshot displays a file management interface with three columns, each showing a different version of a BMI banner for iPhone. The left column shows the 'compact' version, the middle shows the 'compact 2x' version, and the right shows the standard 'Regular' version.

Left Column (Compact):

- 3월
- BMI Banner compact 1x.png
- BMI Banner compact 2x.png
- BMI Banner compact.png
- BMI Banner Regular 1x.png
- BMI Banner Regular 2x.png
- BMI Banner Regular.png

Middle Column (Compact 2x):

- BMI Banner compact 1x.png
- BMI Banner compact 2x.png** (highlighted)
- BMI Banner compact.png
- BMI Banner Regular 1x.png
- BMI Banner Regular 2x.png
- BMI Banner Regular.png

Right Column (Regular):

- BMI Banner compact 1x.png
- BMI Banner compact 2x.png
- BMI Banner compact.png** (highlighted)
- BMI Banner Regular 1x.png
- BMI Banner Regular 2x.png
- BMI Banner Regular.png

Common UI Elements:

- BMI Estimate** button in each column.
- BMI Banner compact 1x.png**, **BMI Banner compact 2x.png**, and **BMI Banner compact.png** are highlighted in blue.
- BMI Estimate** button in the rightmost column.
- BMI Banner compact 2x.png** details:
 - BMI Banner compact 2x.png**
 - PNG 이미지 - 99KB
 - 생성일 2015. 3. 14.
 - 수정일 2015. 3. 14.
 - 최근 사용일 2015. 3. 14.
 - 규격 713 × 169
 - 태그 추가...
- BMI Banner compact.png** details:
 - BMI Banner compact.png**
 - PNG 이미지 - 123...
 - 생성일 2015. 3. 14.
 - 수정일 2015. 3. 14.
 - 최근 사용일 2015. 3. 14.
 - 규격 1080 × 256
 - 태그 추가...

Importing Graphic Asset

- Image for iPad

BMI Banner compact 1x.png
 BMI Banner compact 2x.png
 BMI Banner compact.png
 BMI Banner Regular 1x.png
 BMI Banner Regular 2x.png
 BMI Banner Regular.png

Body Mass Index Estimate

BMI Banner Regular
1x.png

PNG 이미지 - 118...

생성일 2015. 3. 14.

수정일 2015. 3. 14.

최근 사용일 2015. 3. 14.

규격 676 x 169

태그 추가...

BMI Banner compact 1x.png
 BMI Banner compact 2x.png
 BMI Banner compact.png
 BMI Banner Regular 1x.png
 BMI Banner Regular 2x.png
 BMI Banner Regular.png

Body Mass Index Estimate

BMI Banner Regular
2x.png

PNG 이미지 - 313...

생성일 2015. 3. 14.

수정일 2015. 3. 14.

최근 사용일 2015. 3. 14.

규격 1352 x 338

태그 추가...

BMI Banner compact 1x.png
 BMI Banner compact 2x.png
 BMI Banner compact.png
 BMI Banner Regular 1x.png
 BMI Banner Regular 2x.png
 BMI Banner Regular.png

Body Mass Index Estimate

BMI Banner
Regular.png

PNG 이미지 - 388...

생성일 2015. 3. 14.

수정일 2015. 3. 14.

최근 사용일 2015. 3. 14.

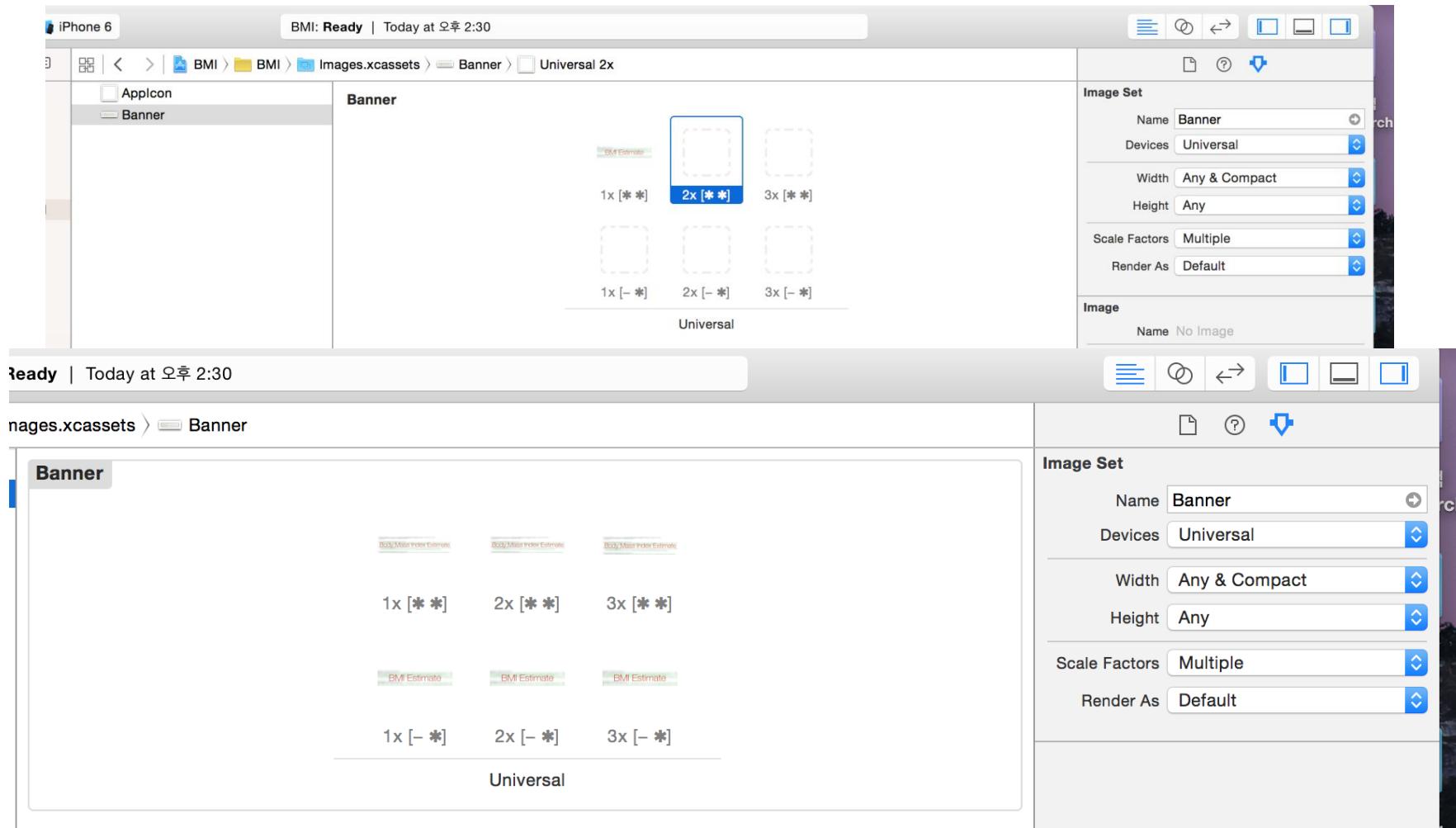
규격 2048 x 512

태그 추가...



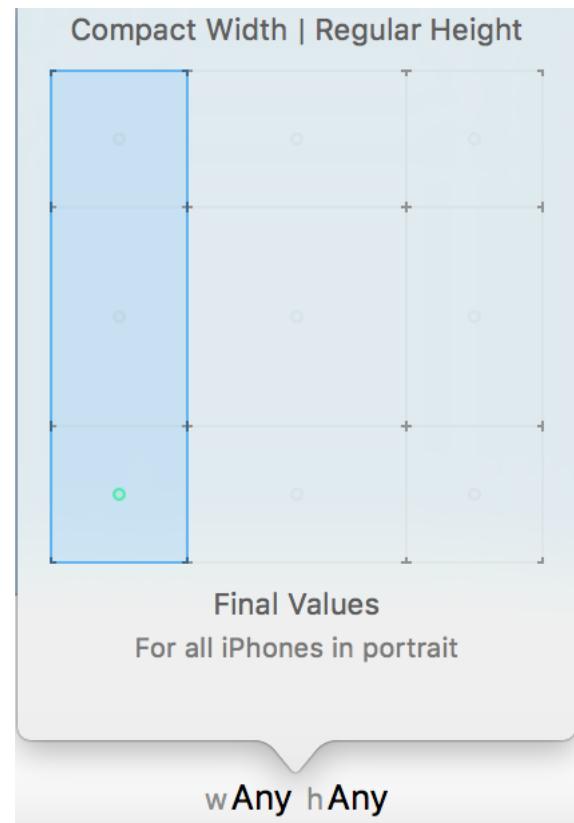
Importing Graphic Asset

- Image



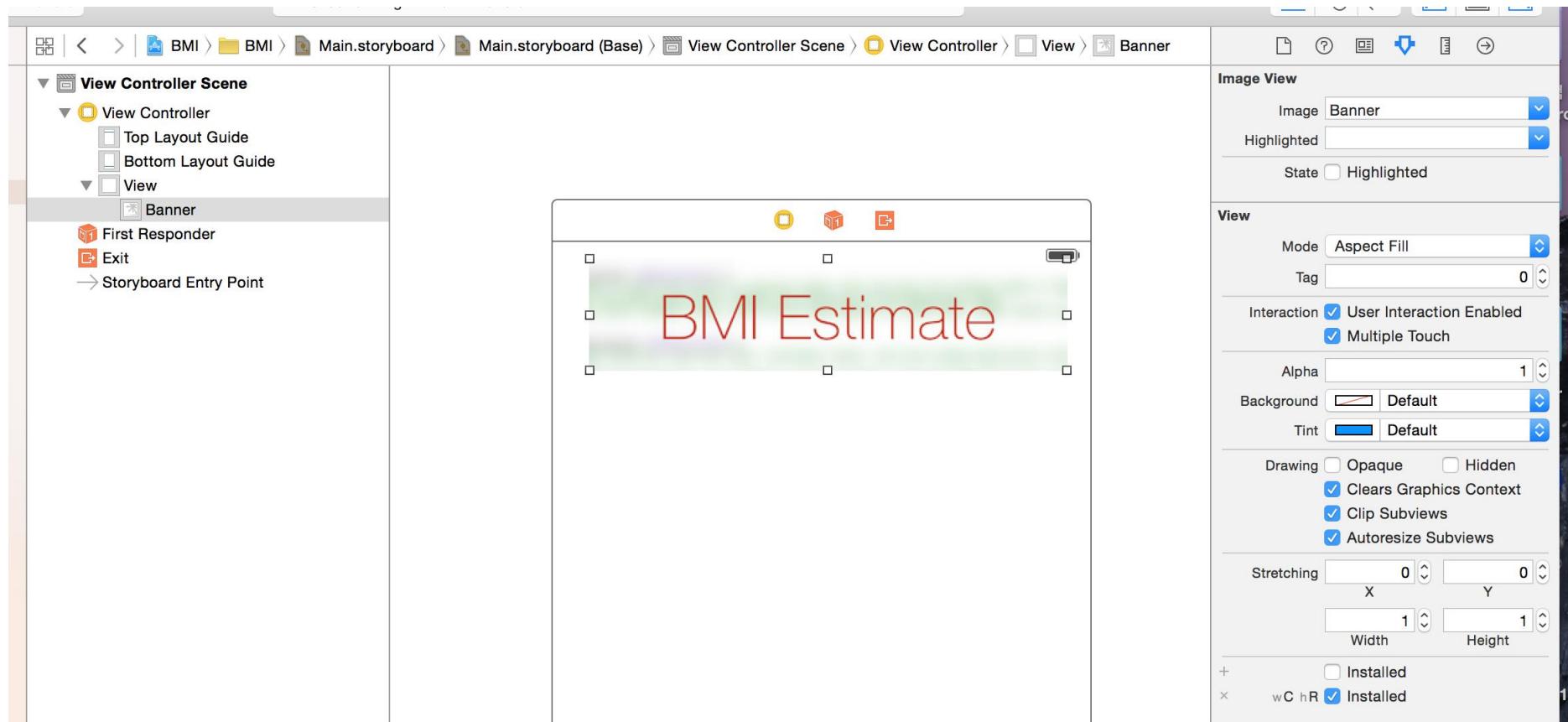
Importing Graphic Asset

- Compact Width / Regular Height



Importing Graphic Asset

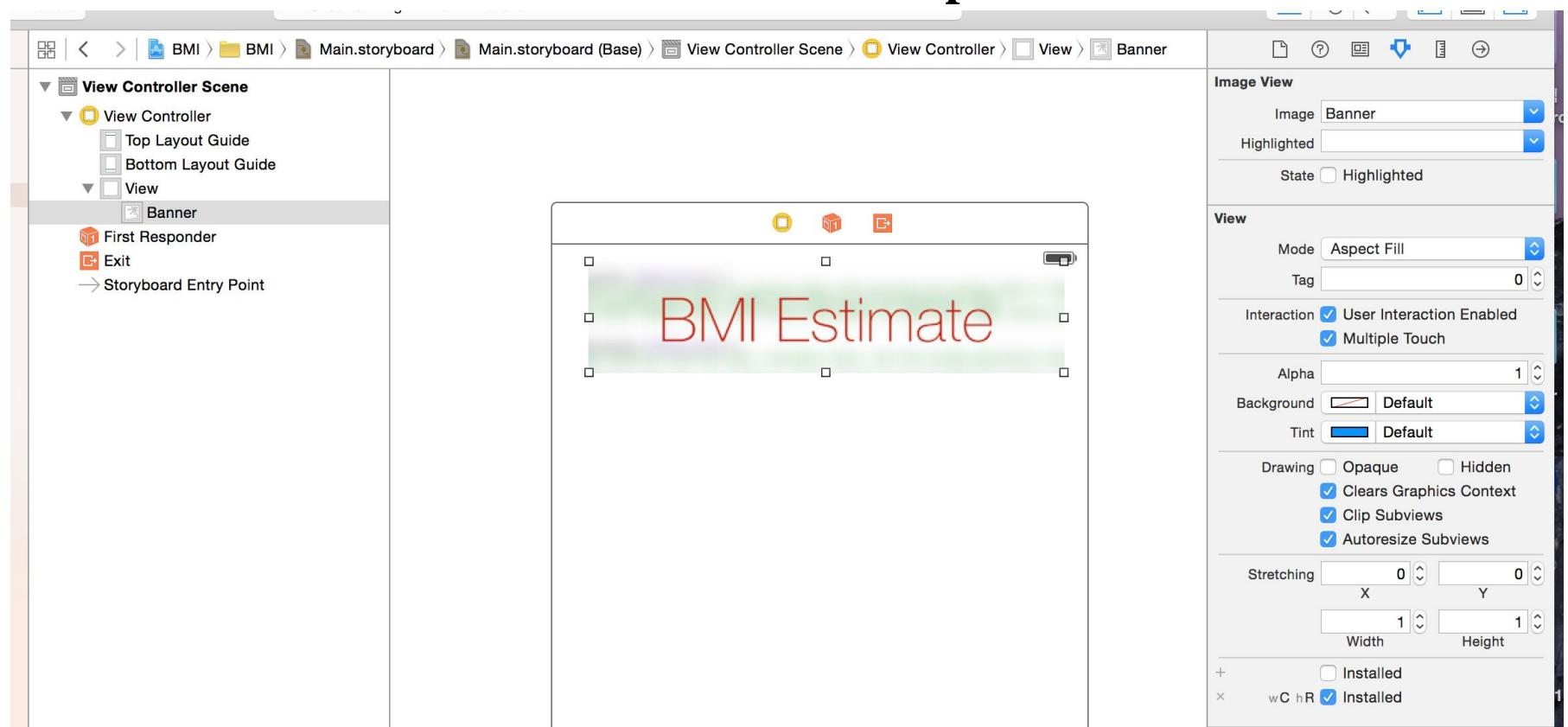
- Make Banner for 6 BMI's screens



Importing Graphic Asset

- **Image Changes**

- set to **aspect fill** in Compact width, Regular Height **for iPhone**
 - To make a full screen without white space

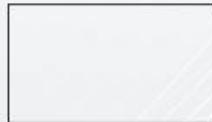


Aspect Fit, Aspect Fill

Image in Question:



Area to fit:



Scale to Fill:

Stretches and/or scales the image as needed to fill the desired space.
Warning, this will often lead to a distorted image!



Aspect Fit:

Scales the image until the biggest side fits flush with the target area. Empty space is applied to the top or side, never both.



Aspect Fill:

Scales the image until the smallest side fits flush with the target area. One side is typically cropped, never both.



Original Image

100 x 100 UIImageView with red background and different content modes



Scale to Fill



Aspect Fit

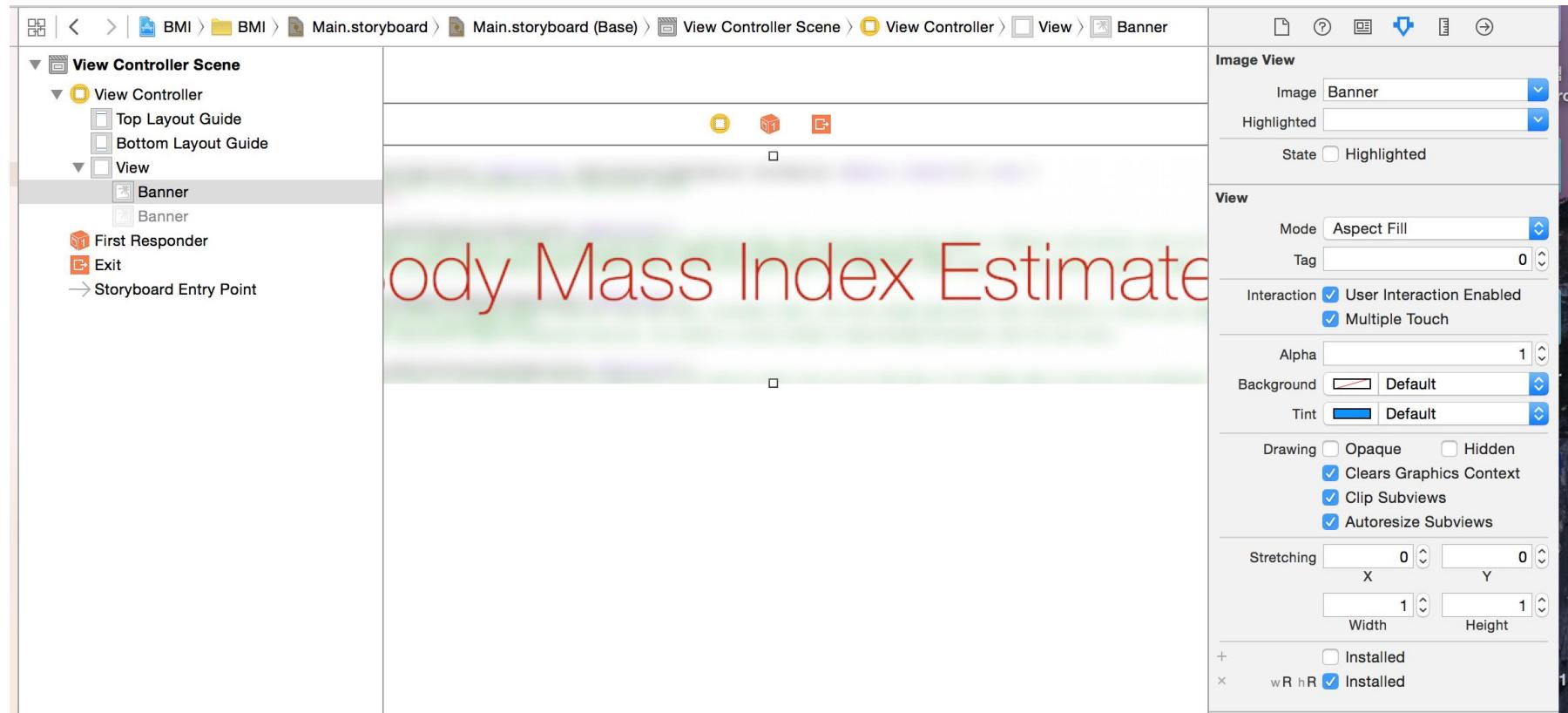


Aspect Fill

Importing Graphic Asset

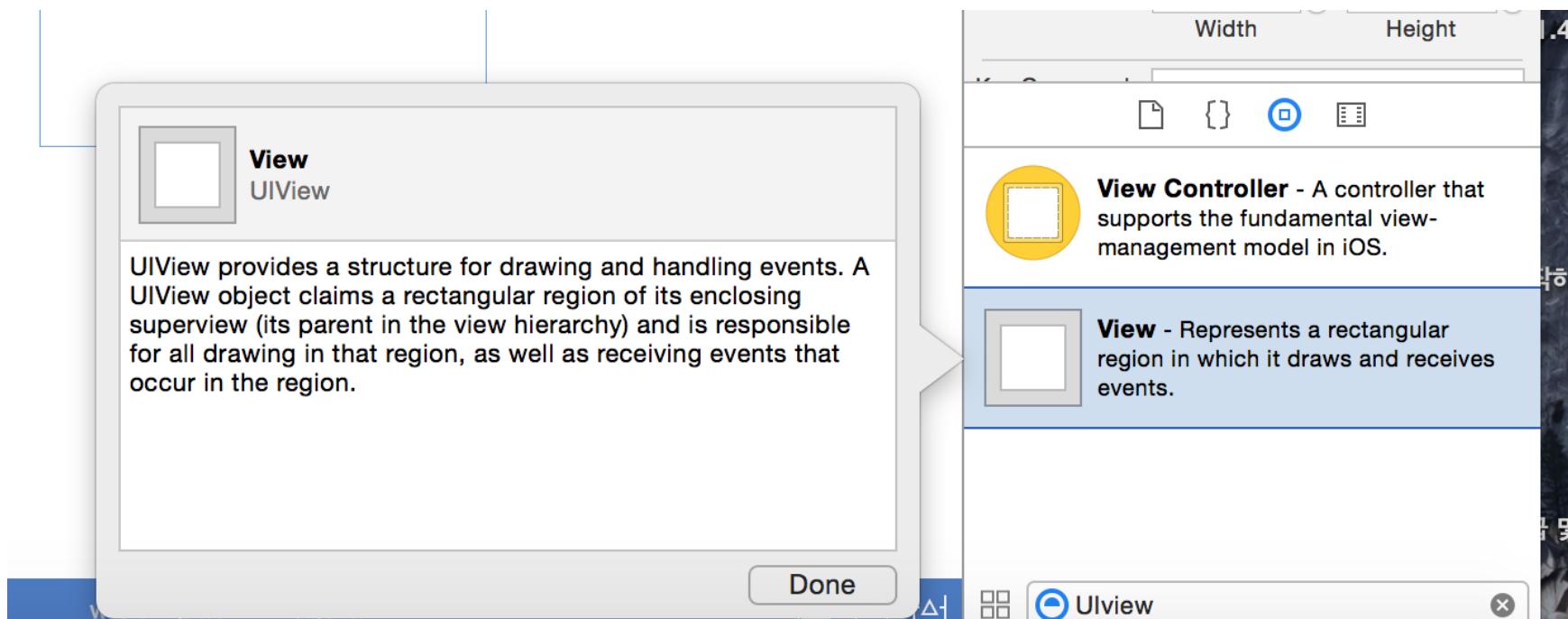
- Image Changes

- set to **aspect fill** in Compact width, Regular Height for iPad



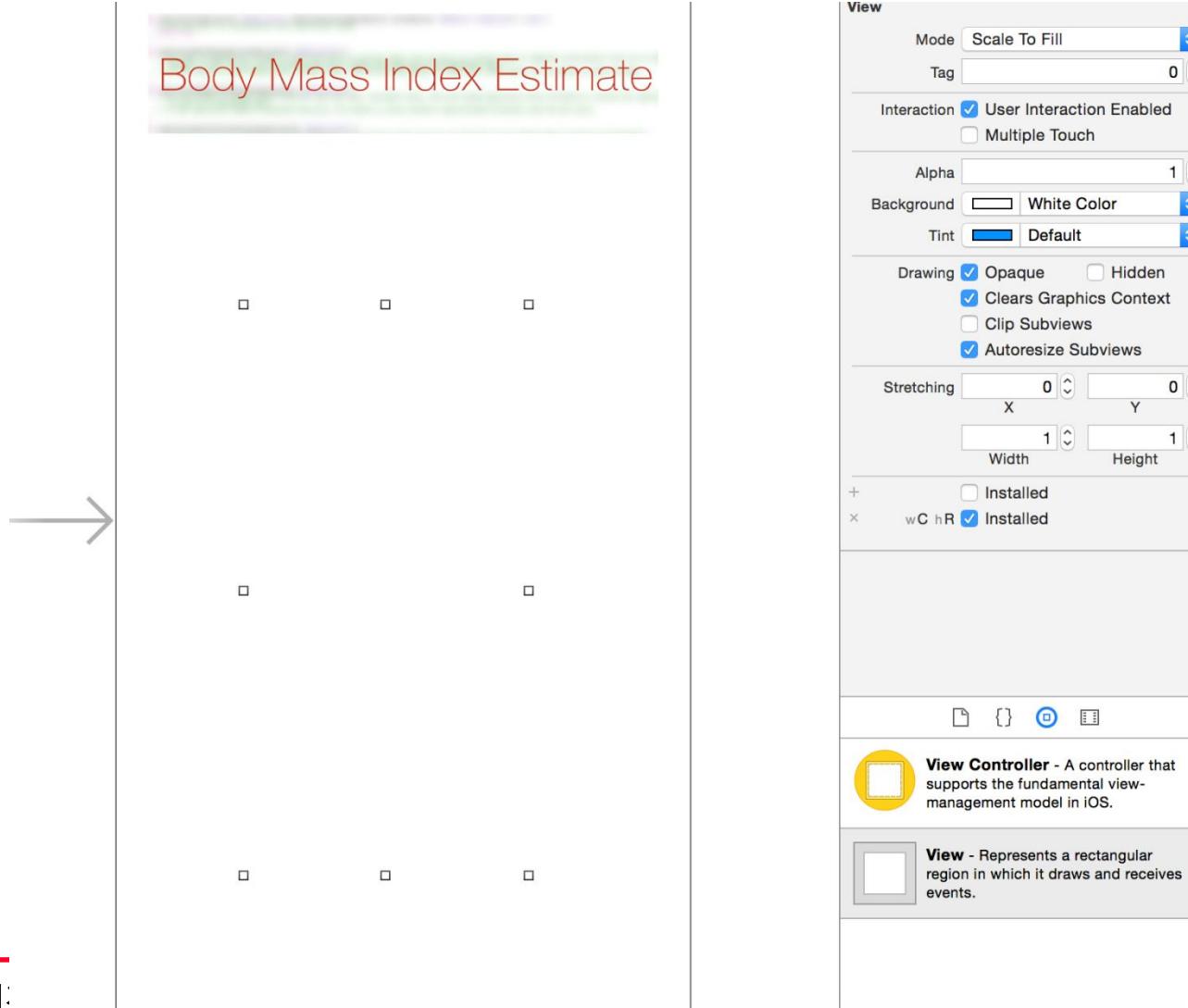
Make a Screen

- Search UIView



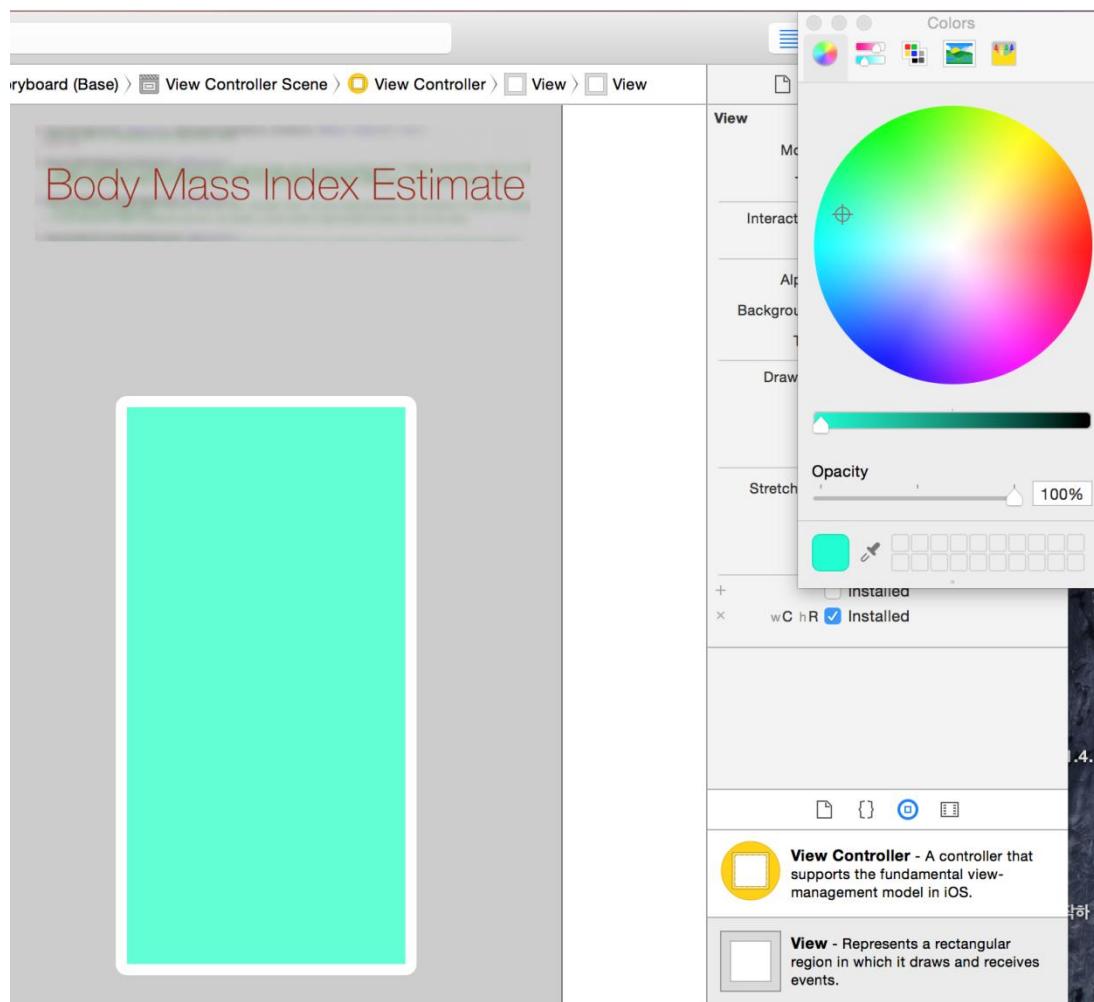
Make a Screen

- Drag View into Main screen



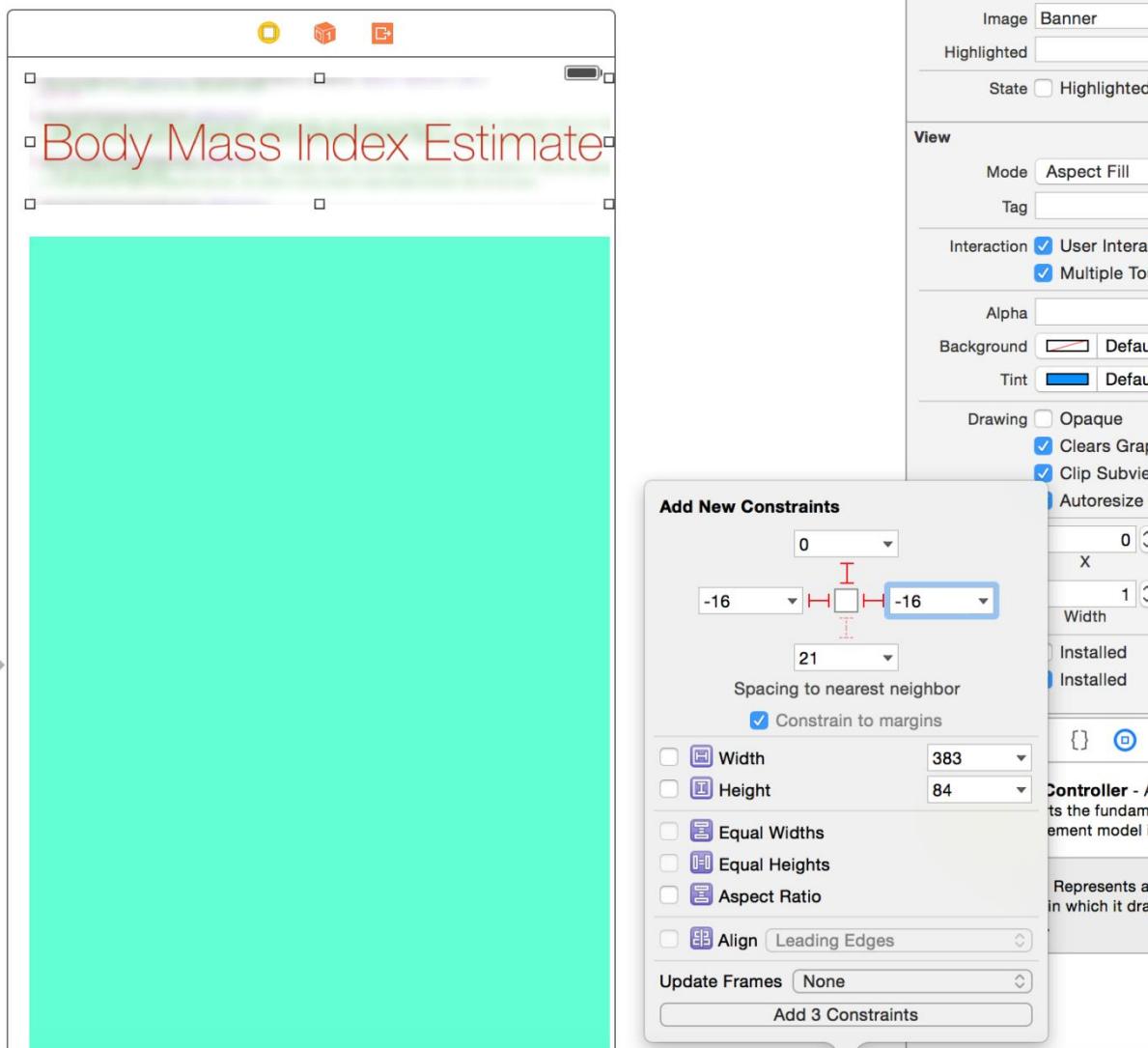
Make a Screen

- Paint Color into Main screen



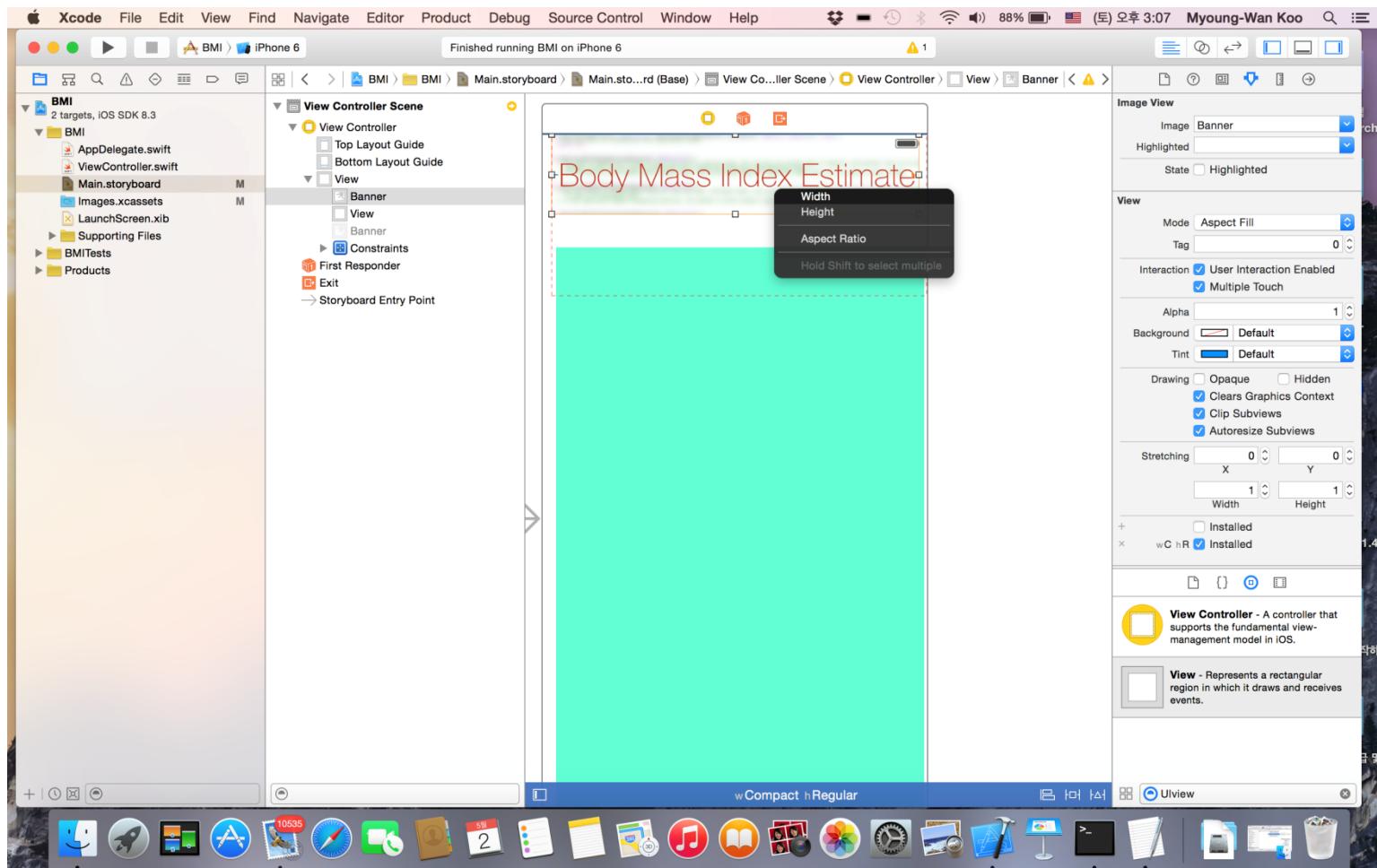
Make a Screen

- Add Constraints for iPhone



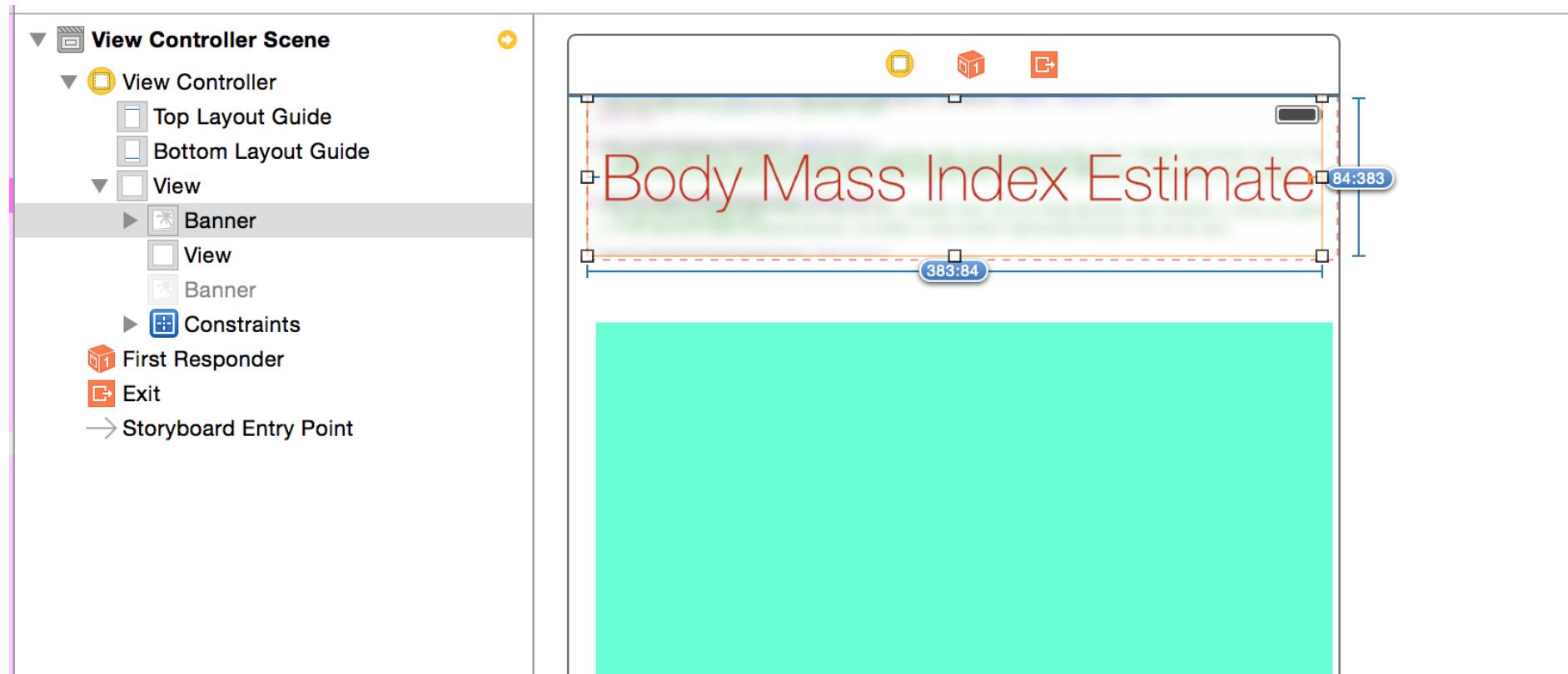
Make a Screen

- Add Constraints for iPhone



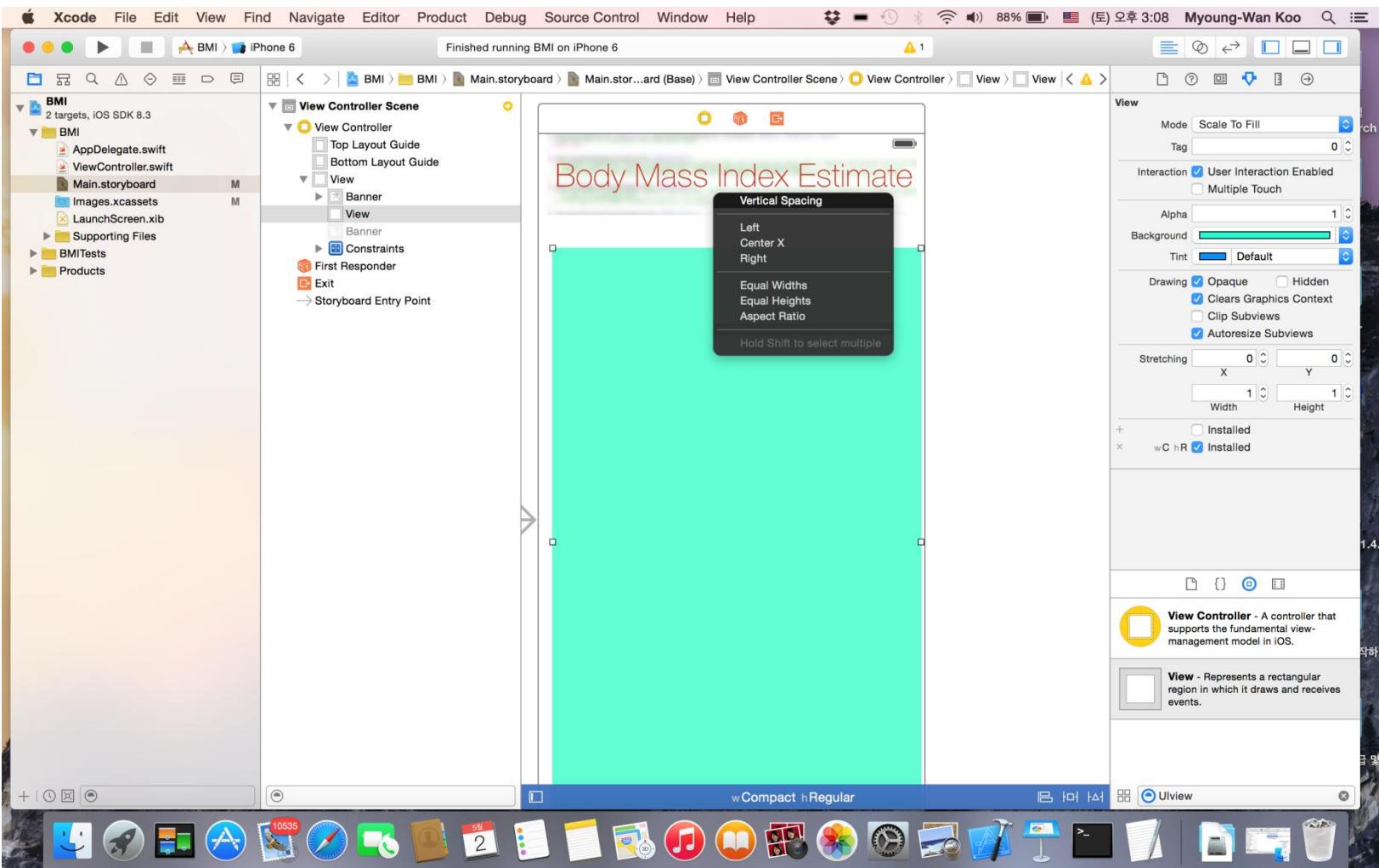
Make a Screen

- Constraints Result for iPhone



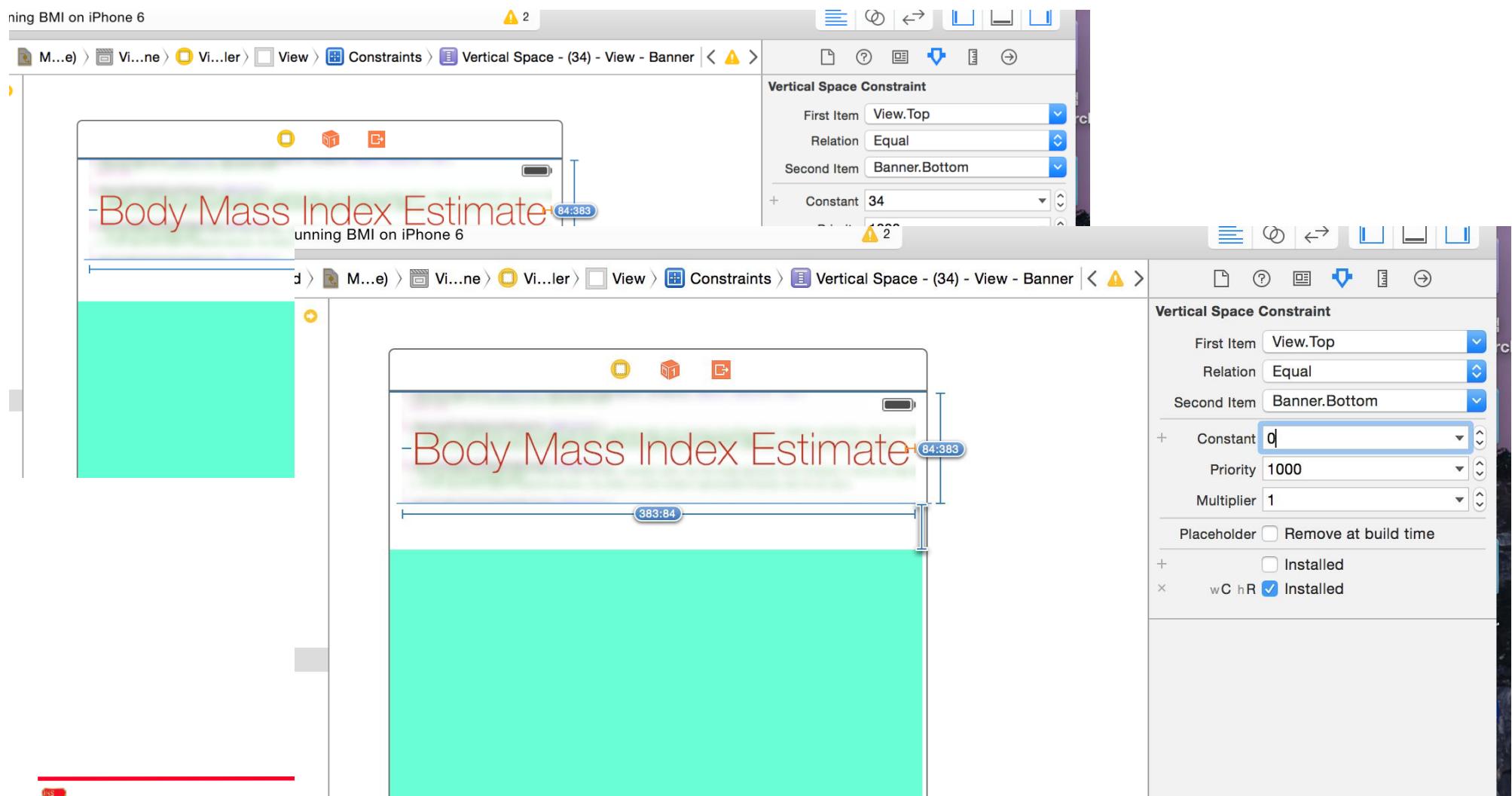
Constraints Result for iPhone

- Cntl-Drag-Diagonal; Vertical Spacing in Text View to BMI



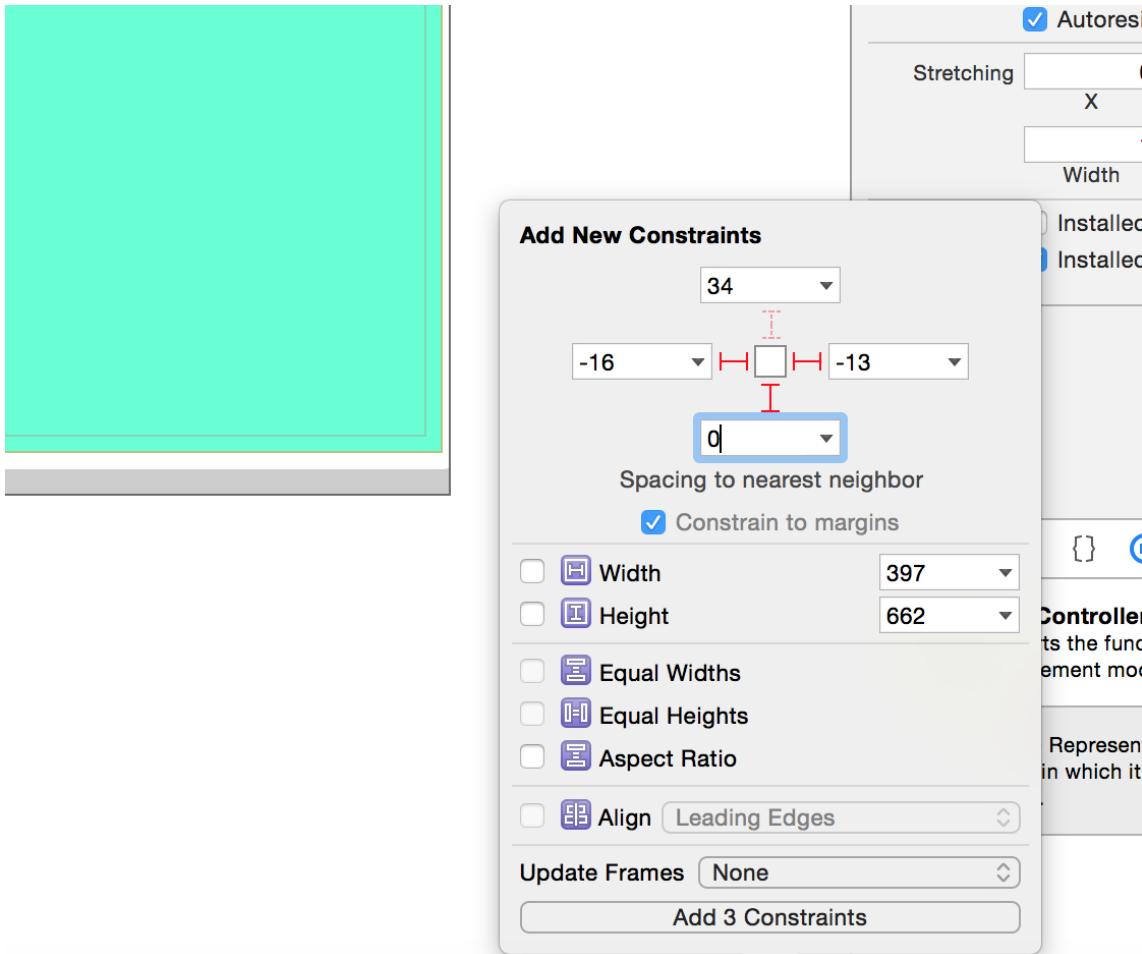
Constraints Result for iPhone

- Cntl-Drag-BMI; Vertical Spacing in Text View to BMI ;setting to 0



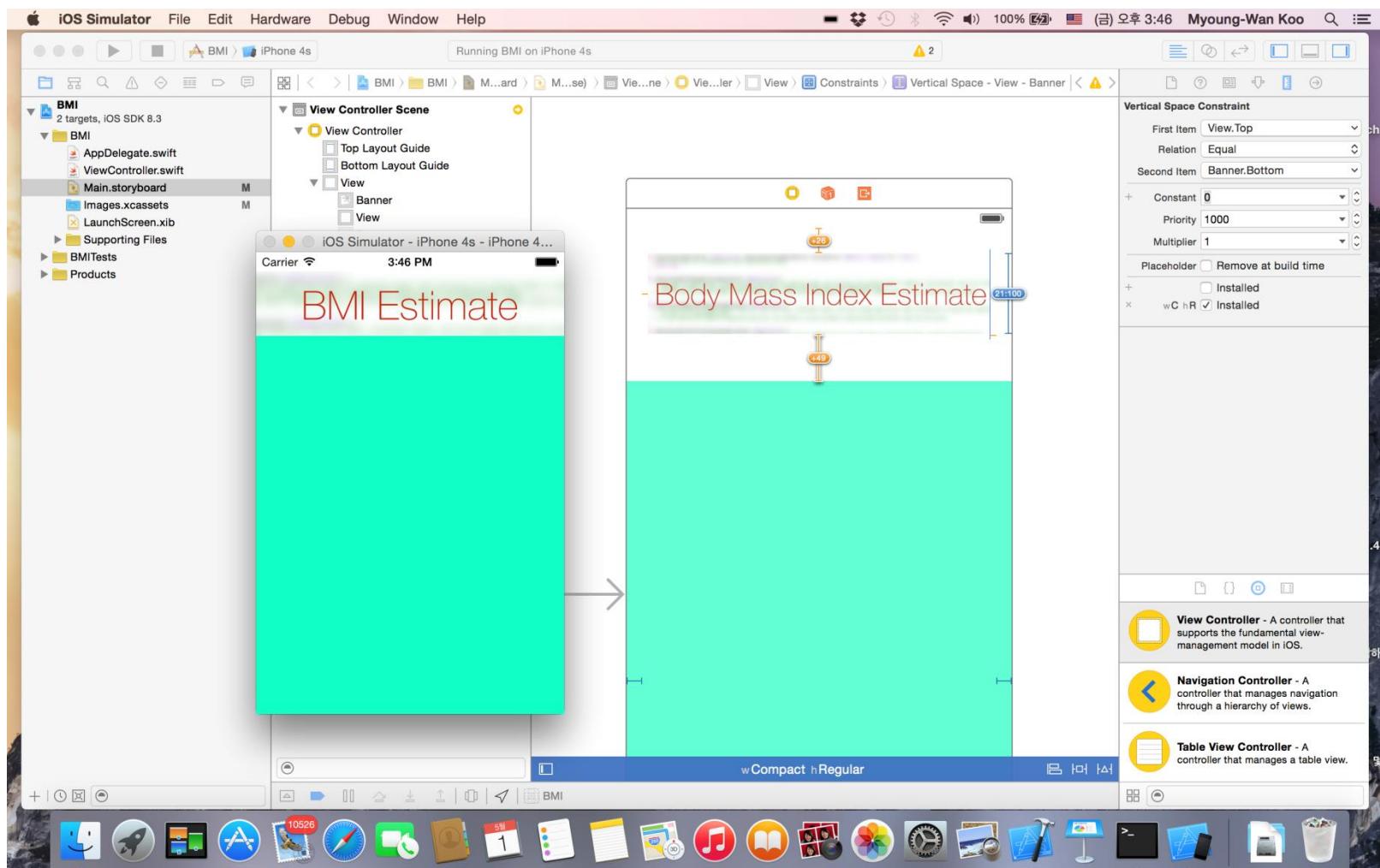
Constraints Result for iPhone

- Bottom Constraint in Text View (-16, -16, 0)



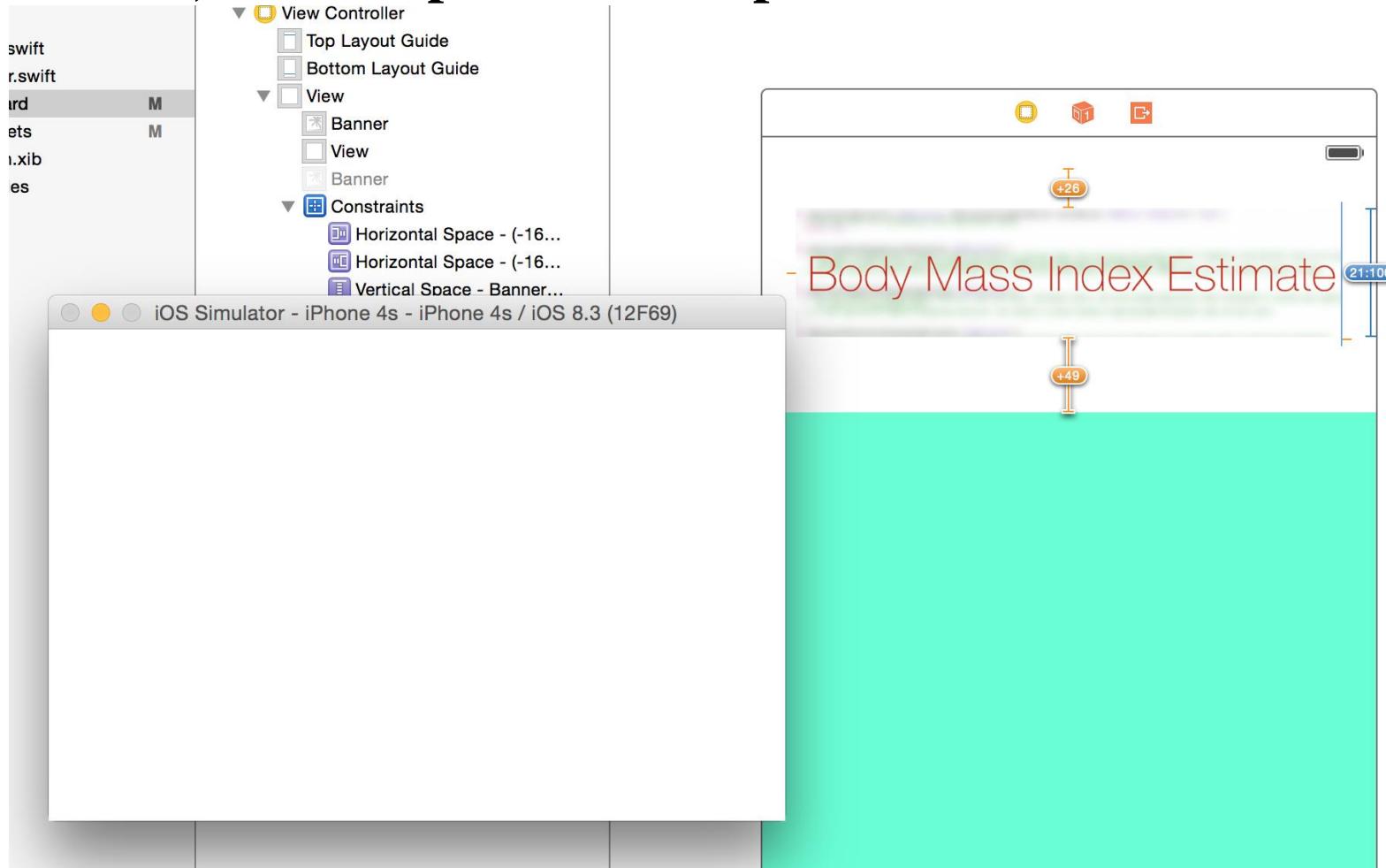
Constraints Result for iPhone

- iPhone 4



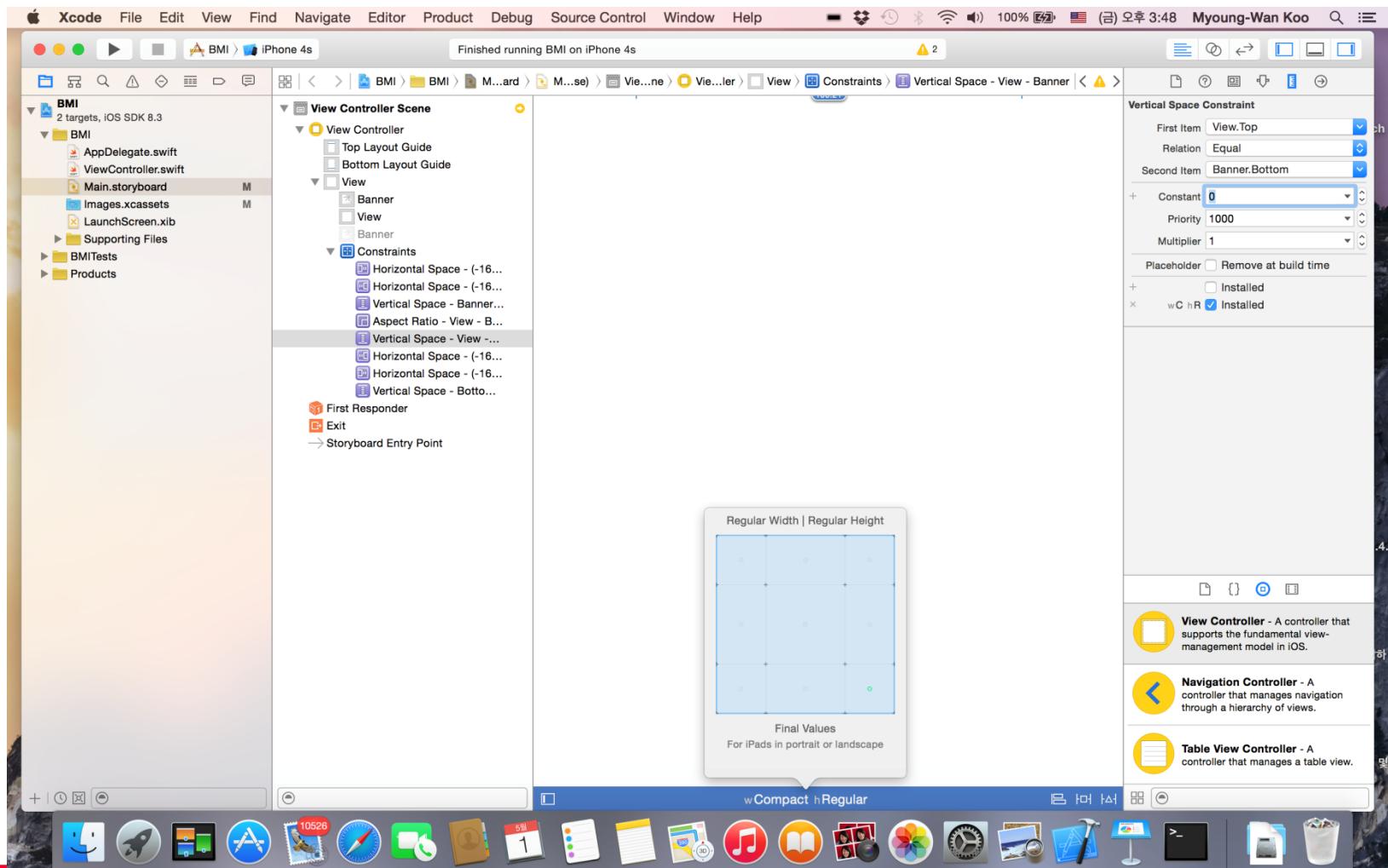
Constraints Result for iPhone

- iPhone 4; Landscape in White Space



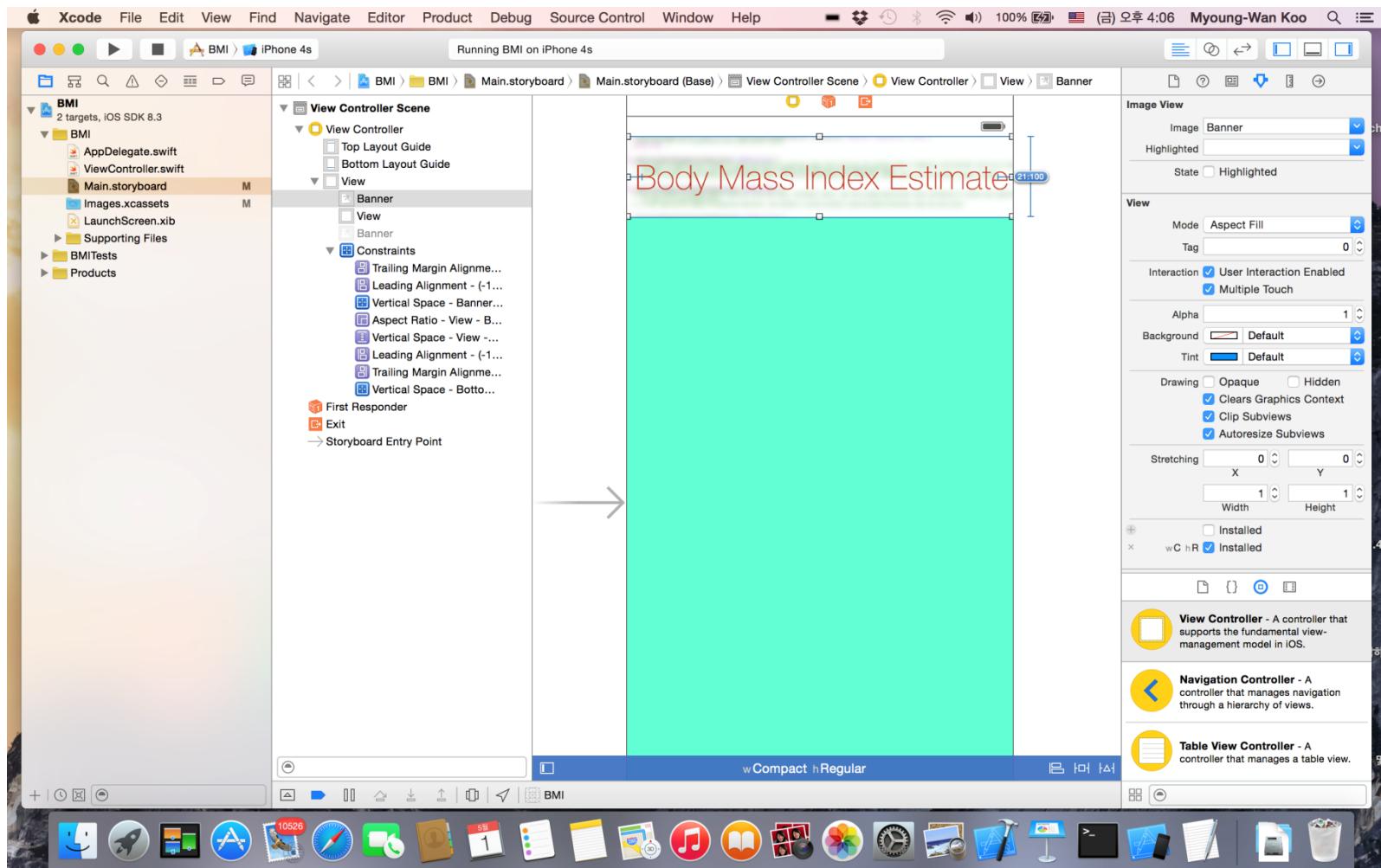
Constraints Result for iPad

- Go to iPad



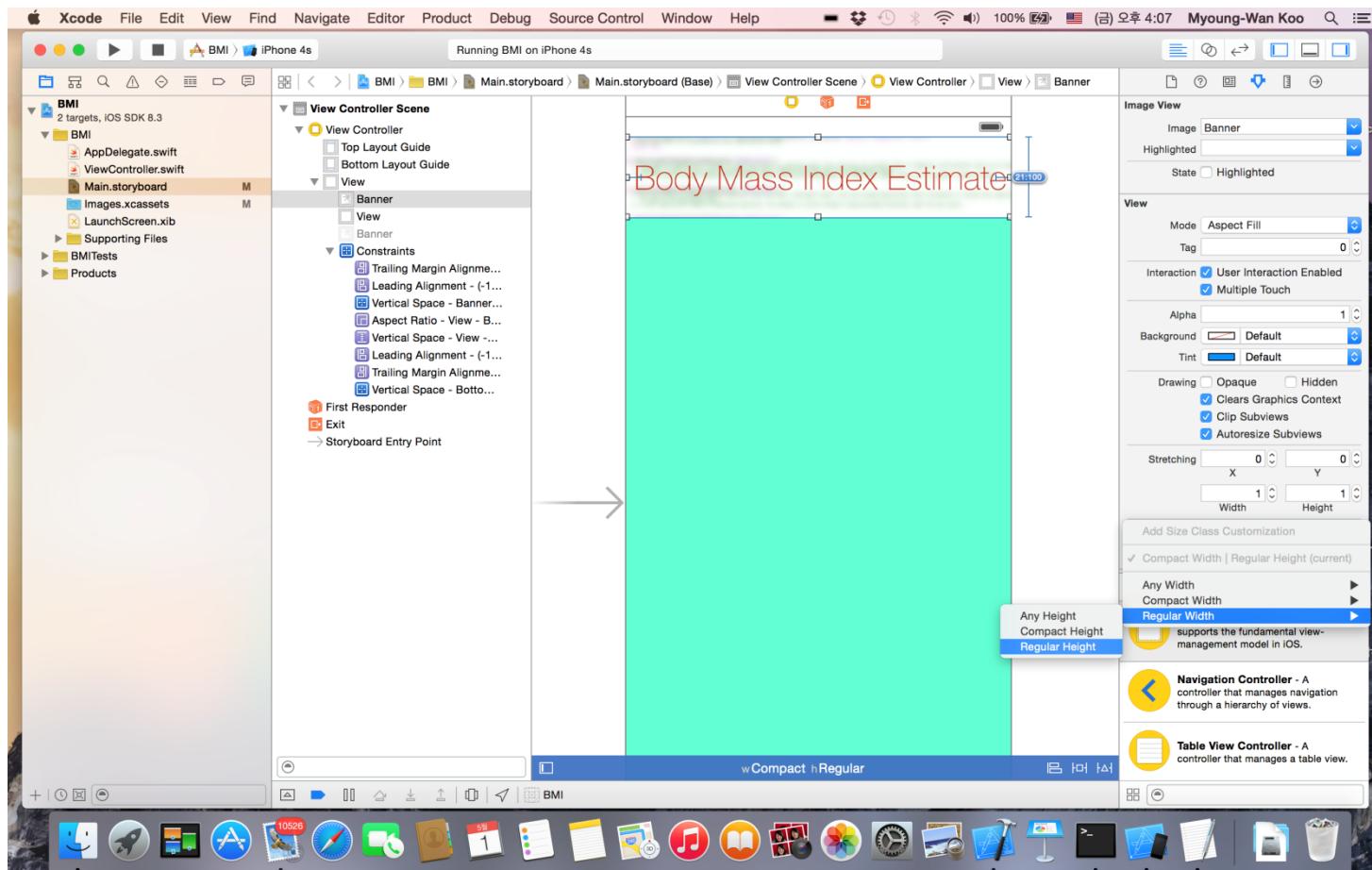
Common Constraints for iPhone and iPad

● Use Banner Constraint for iPhone



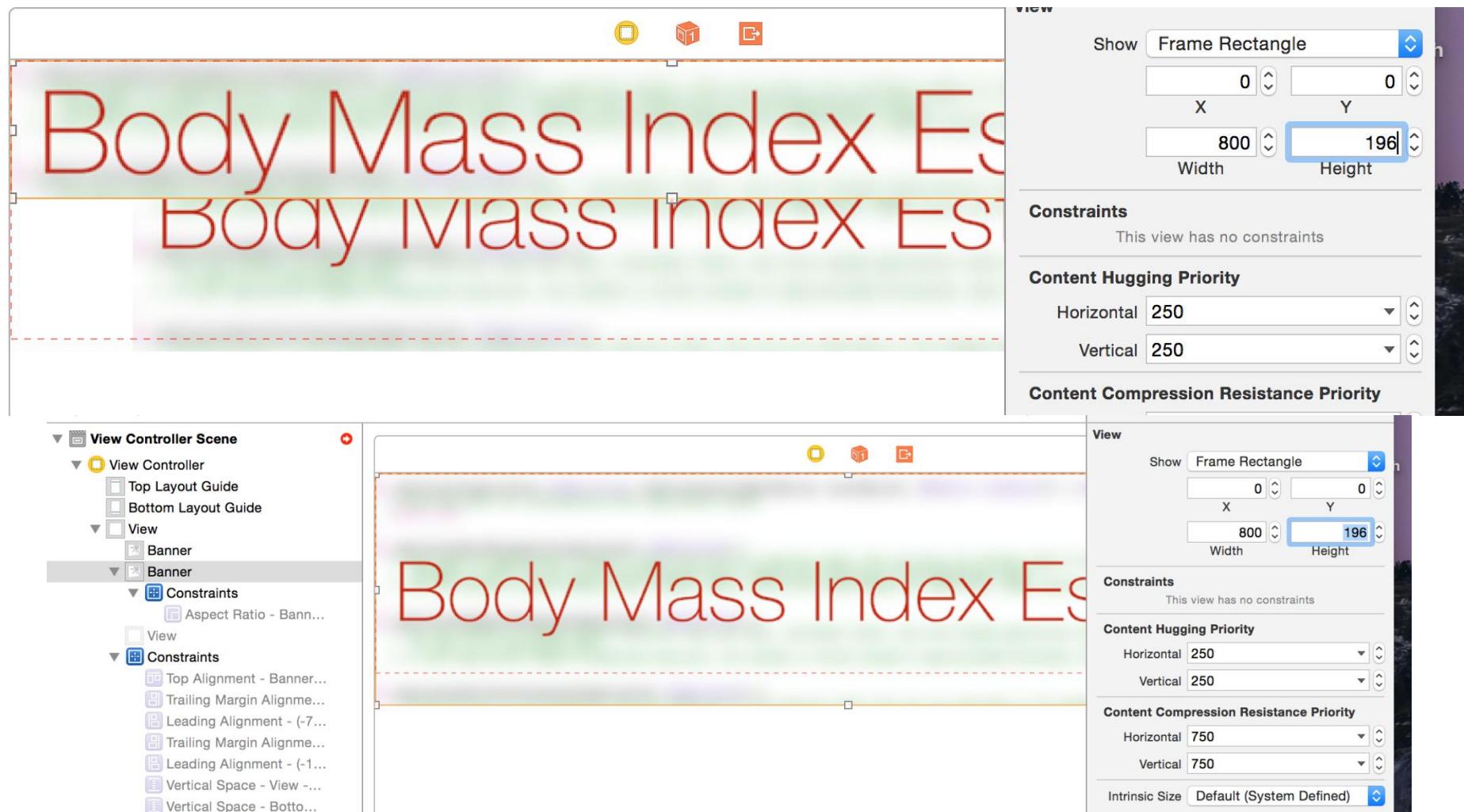
Common Constraints for iPhone and iPad

- Use Banner Constraint for iPhone
 - Add Regular Width, Regular Height in iPhone



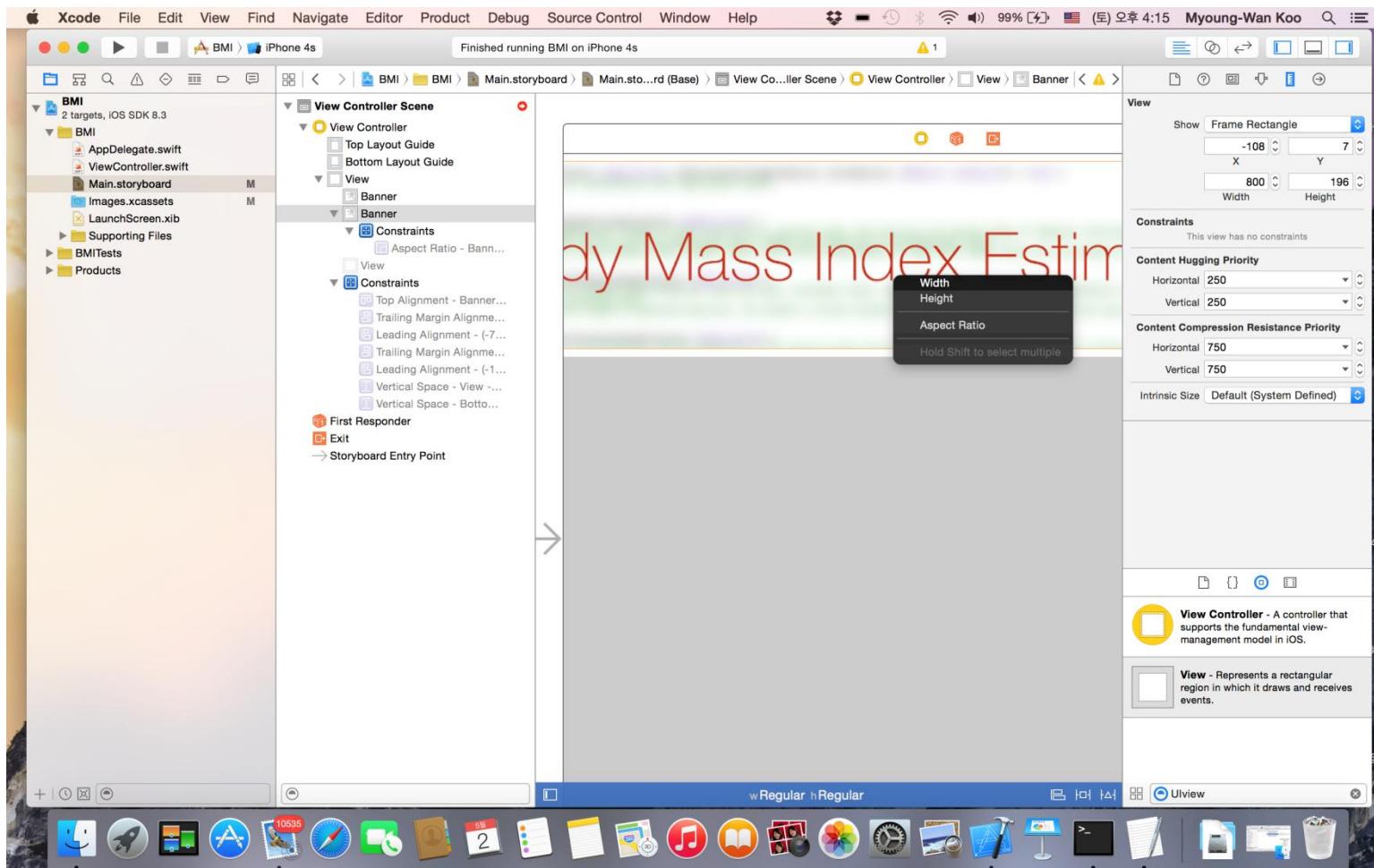
Constraints Result for iPad

- Banner Setting for iPad ; 0,0, 800, 196



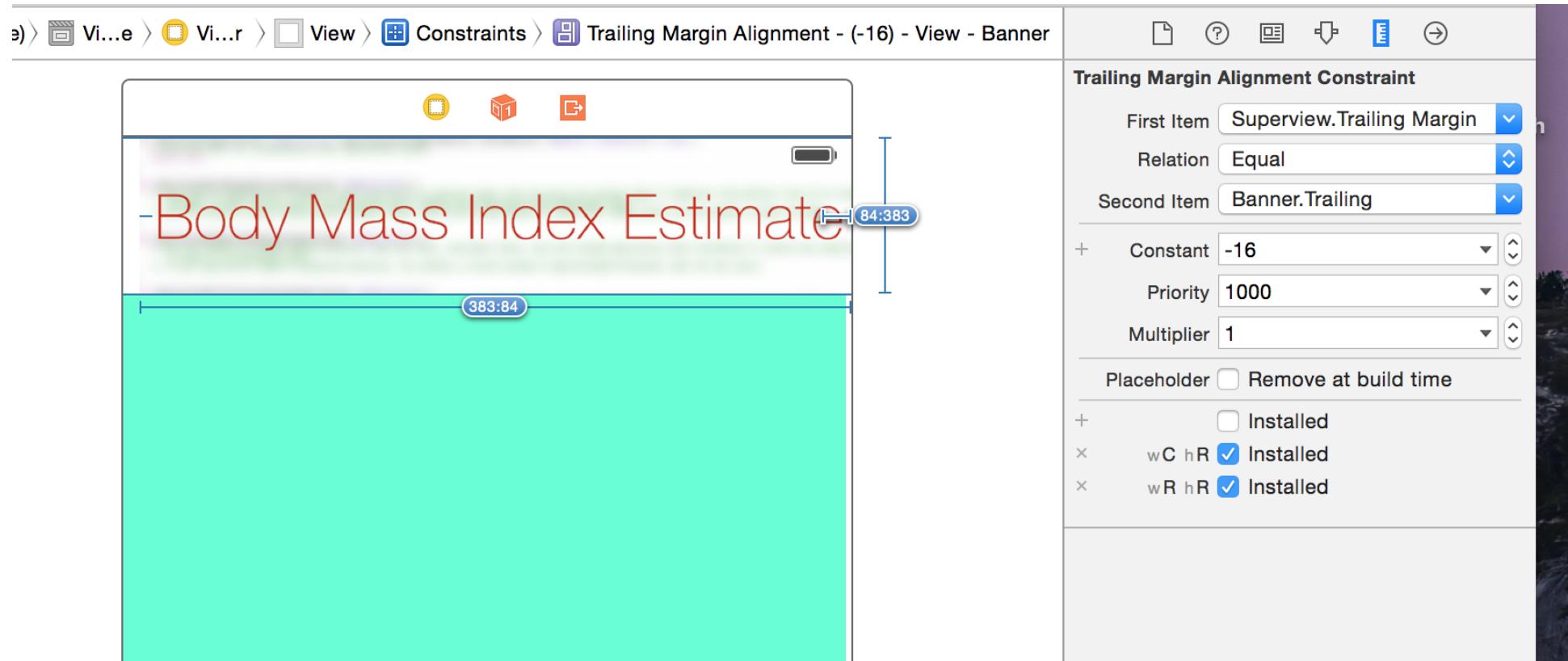
Constraints Result for iPad

- Aspect Ratio for iPad



Common Constraints for iPhone and iPad

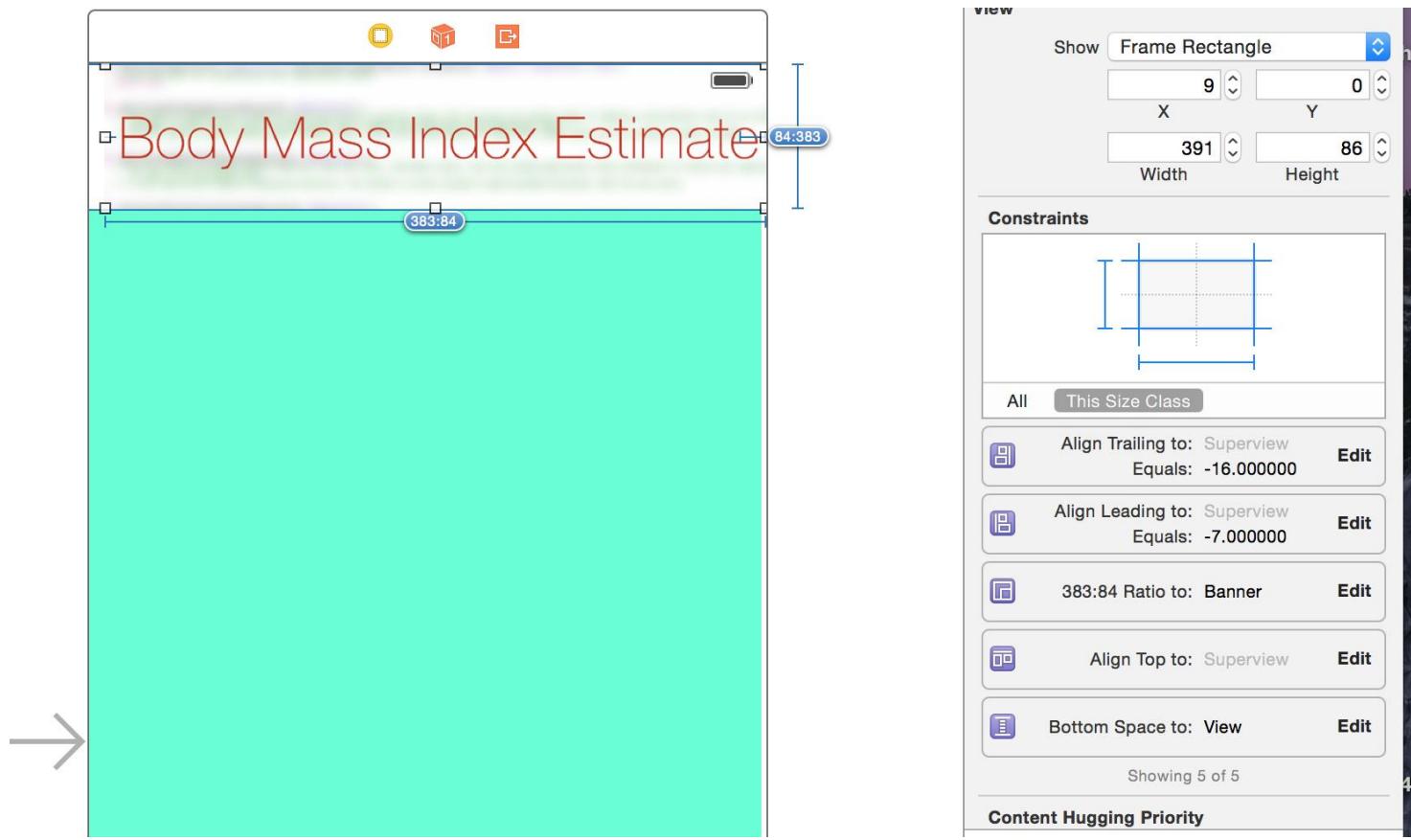
- Use Banner Constraint for iPhone
 - Add Regular Width, Regular Height in iPhone



Common Constraints for iPhone and iPad

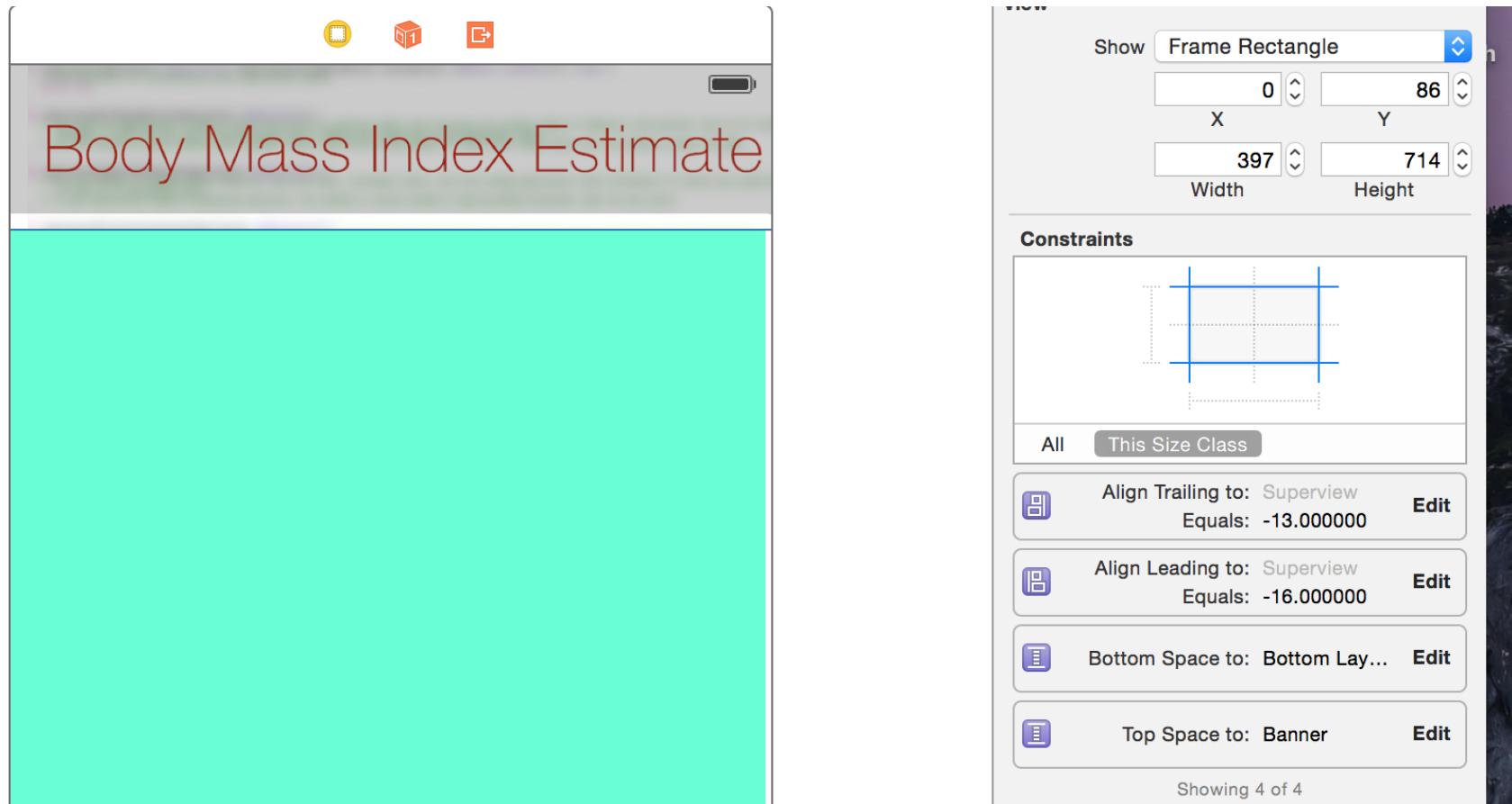
- Use Banner Constraint for iPhone

- Add Regular Width, Regular Height in four constraint for iPhone



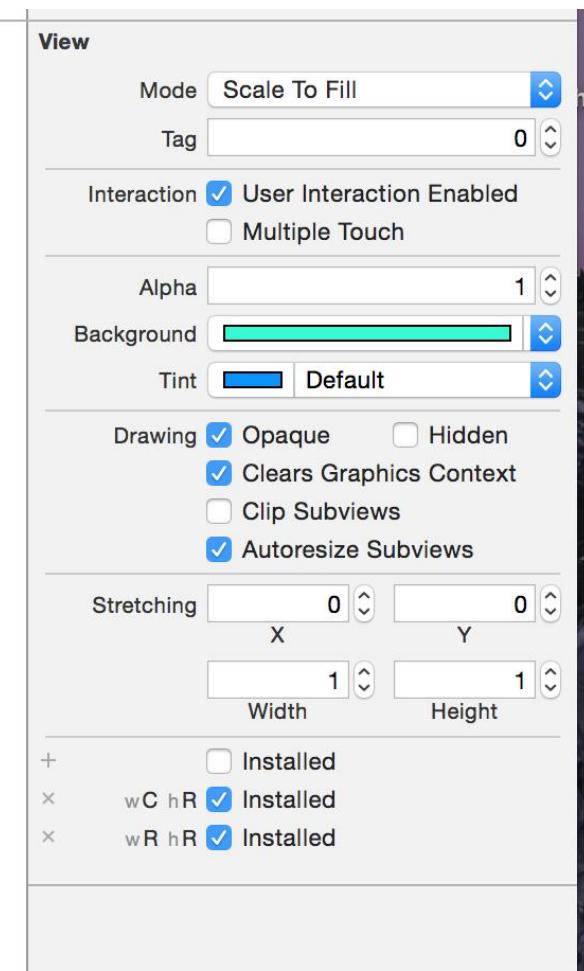
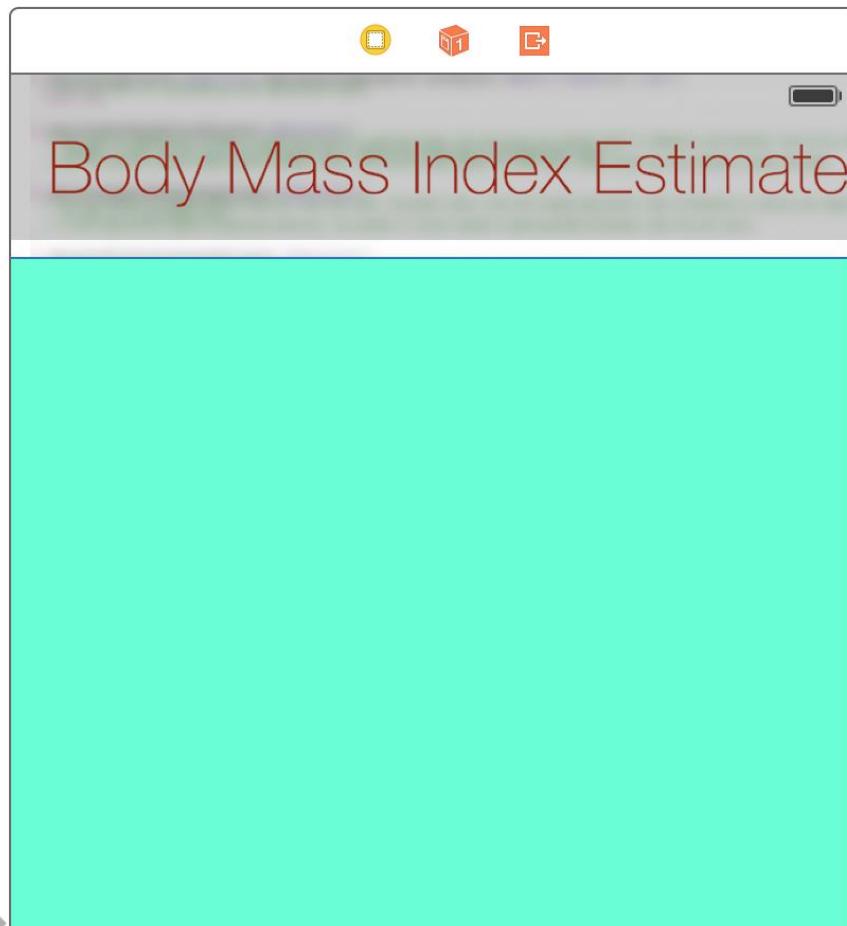
Common Constraints for iPhone and iPad

- Use Text View Constraint for iPhone
 - Add Regular Width, Regular Height in four constraint for iPhone



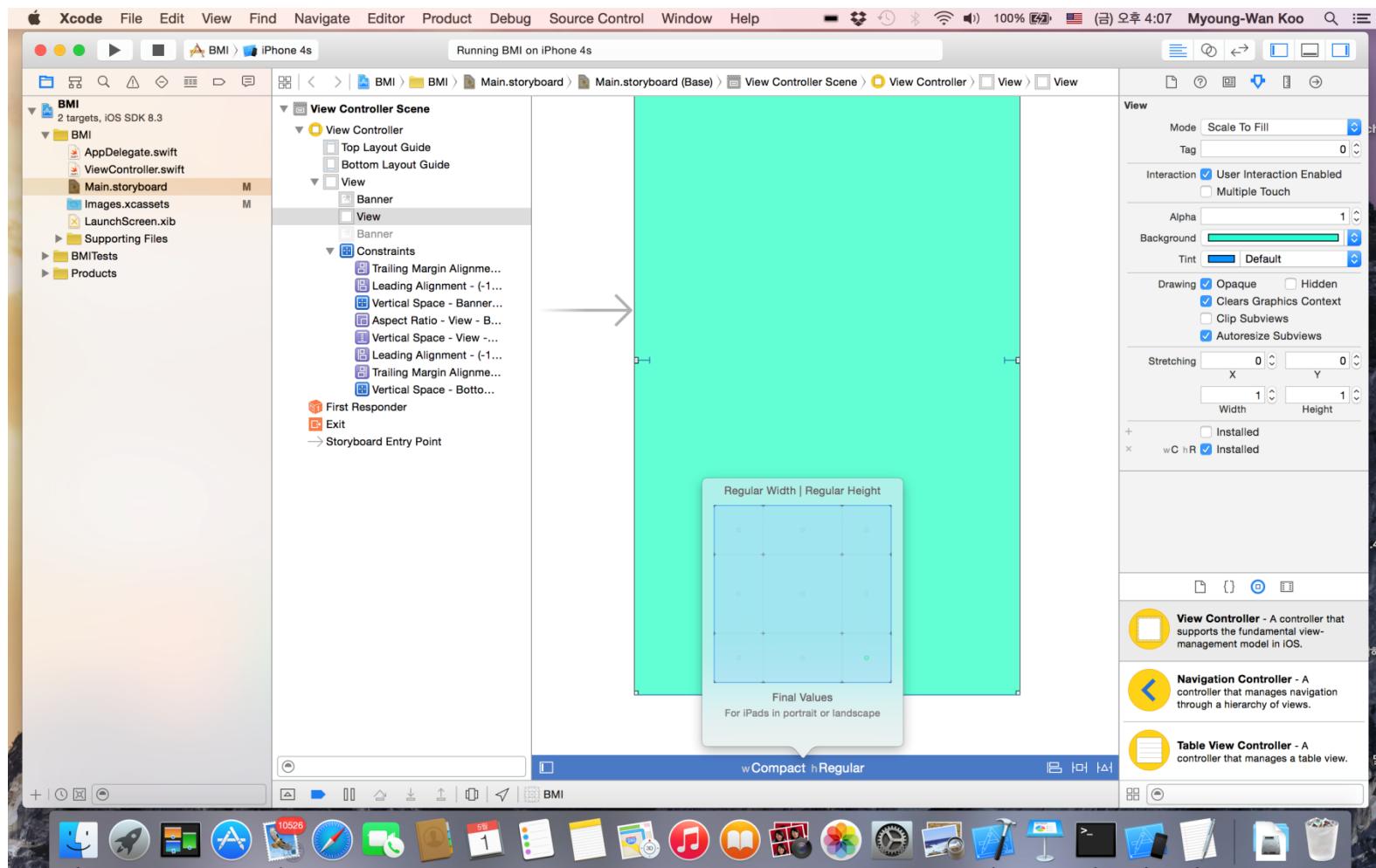
Common Constraints for iPhone and iPad

- Use Text View Constraint for iPhone
 - Add Regular Width, Regular Height in **Text View** for iPhone



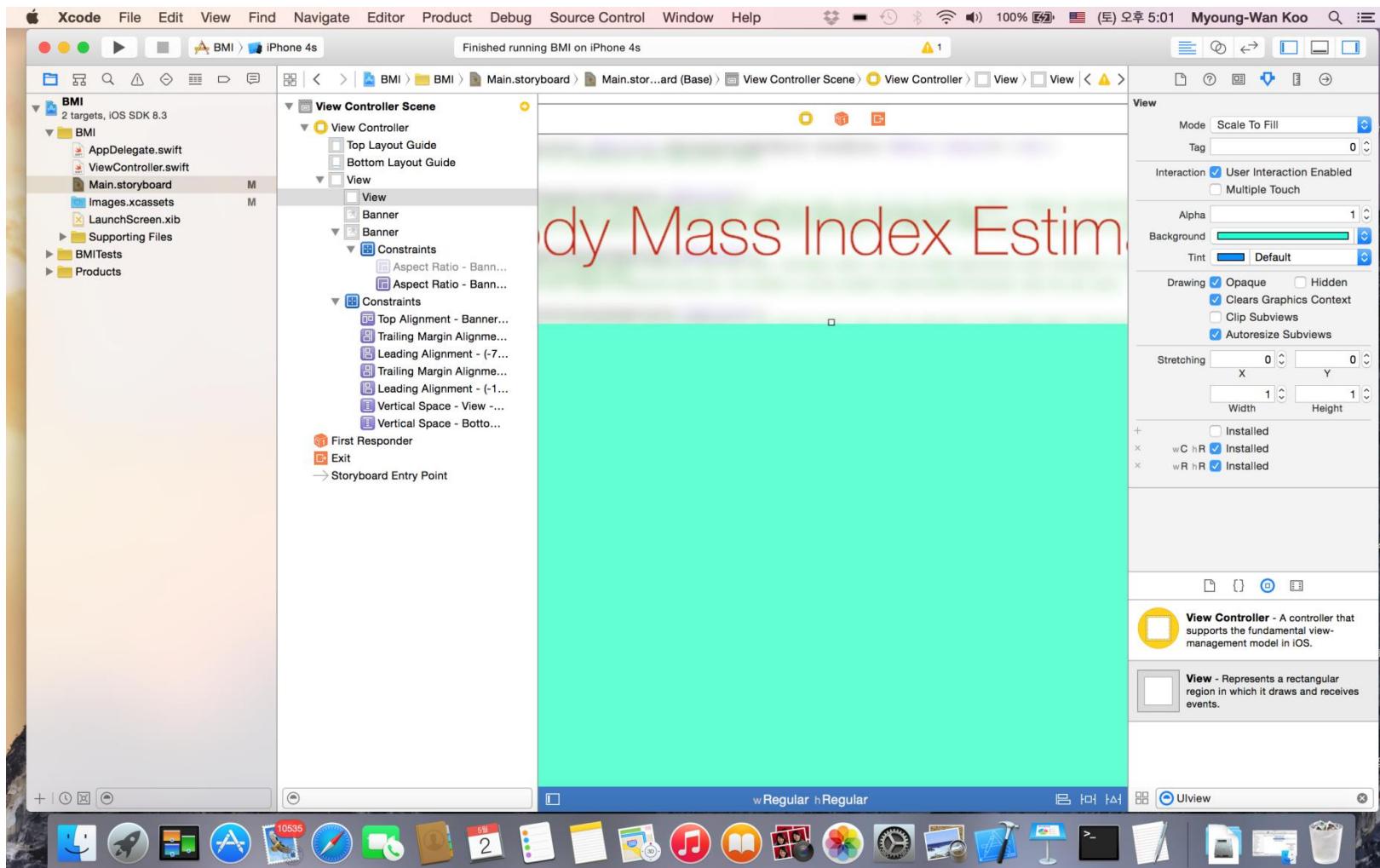
Common Constraints for iPhone and iPad

● Go to iPad



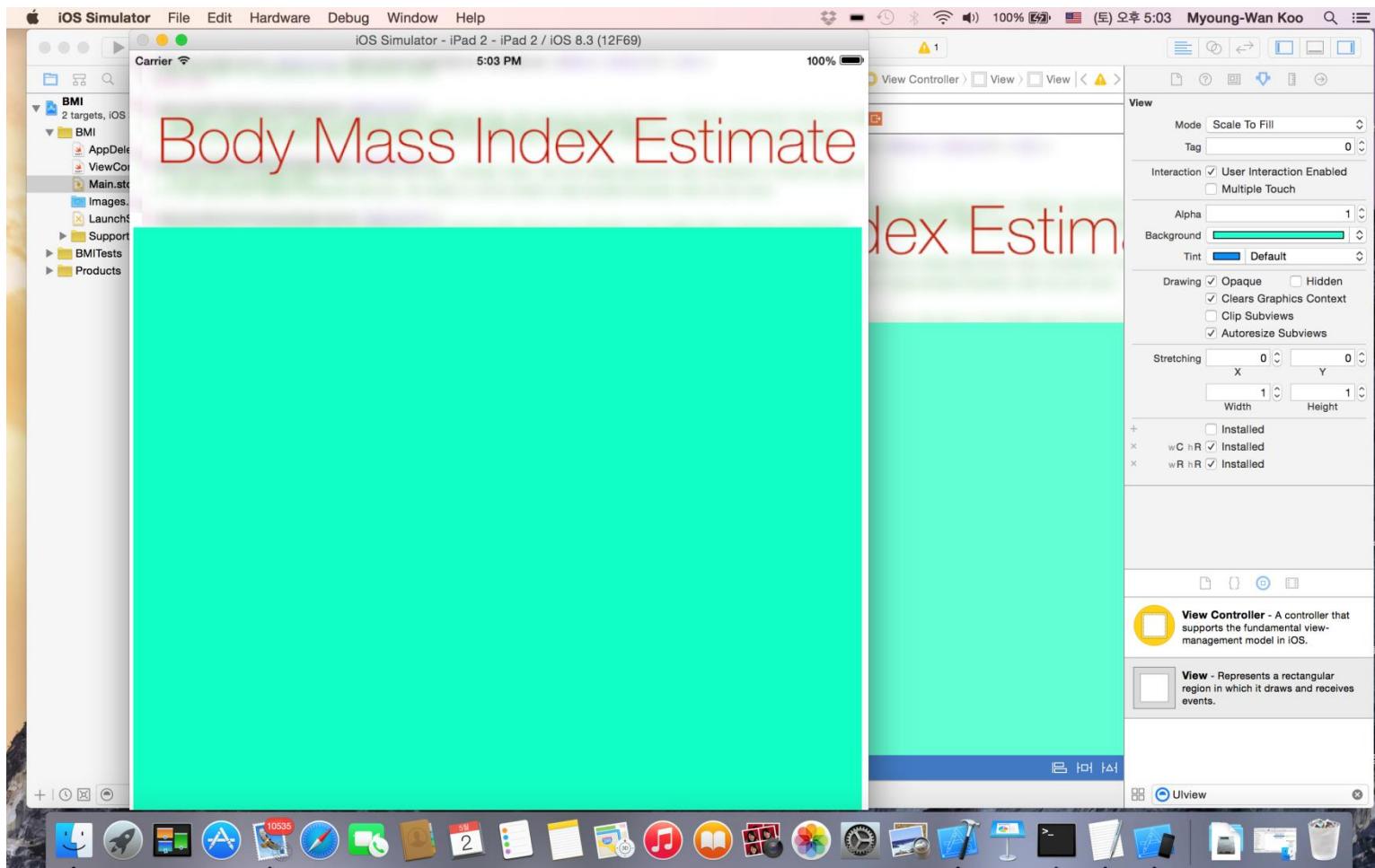
Common Constraints for iPhone and iPad

- Go to iPad



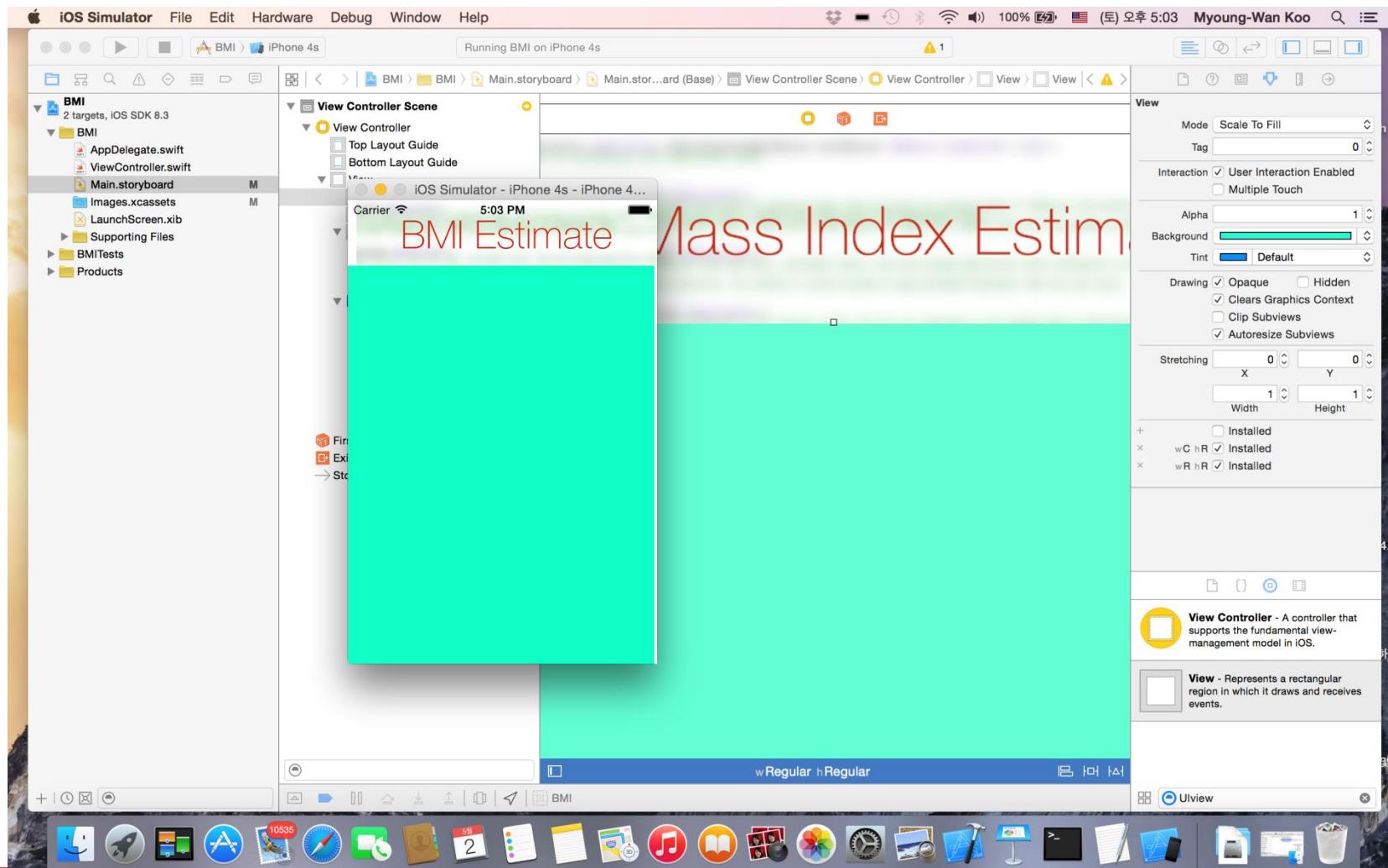
Common Constraints for iPhone and iPad

- Run iPad, OK for iPad, iPhone



Common Constraints for iPhone and iPad

- Run iPad, OK for iPad, iPhone



Common Constraints for iPhone and iPad

- Run iPad, OK for iPad, iPhone

