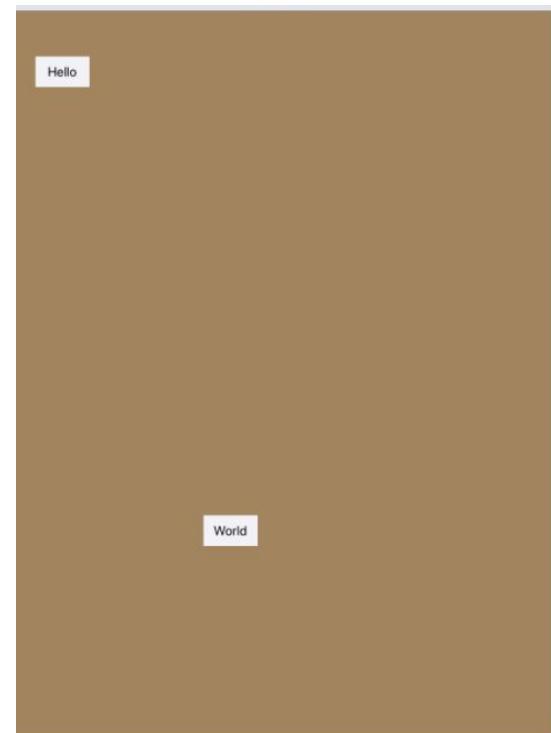
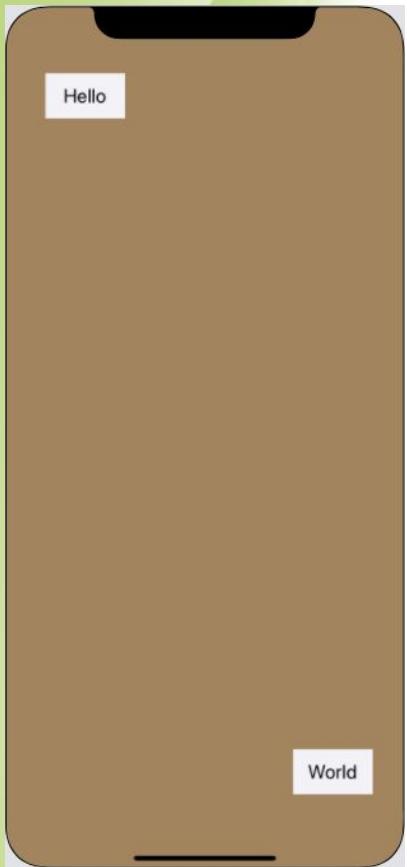


Class 4



Auto Layout



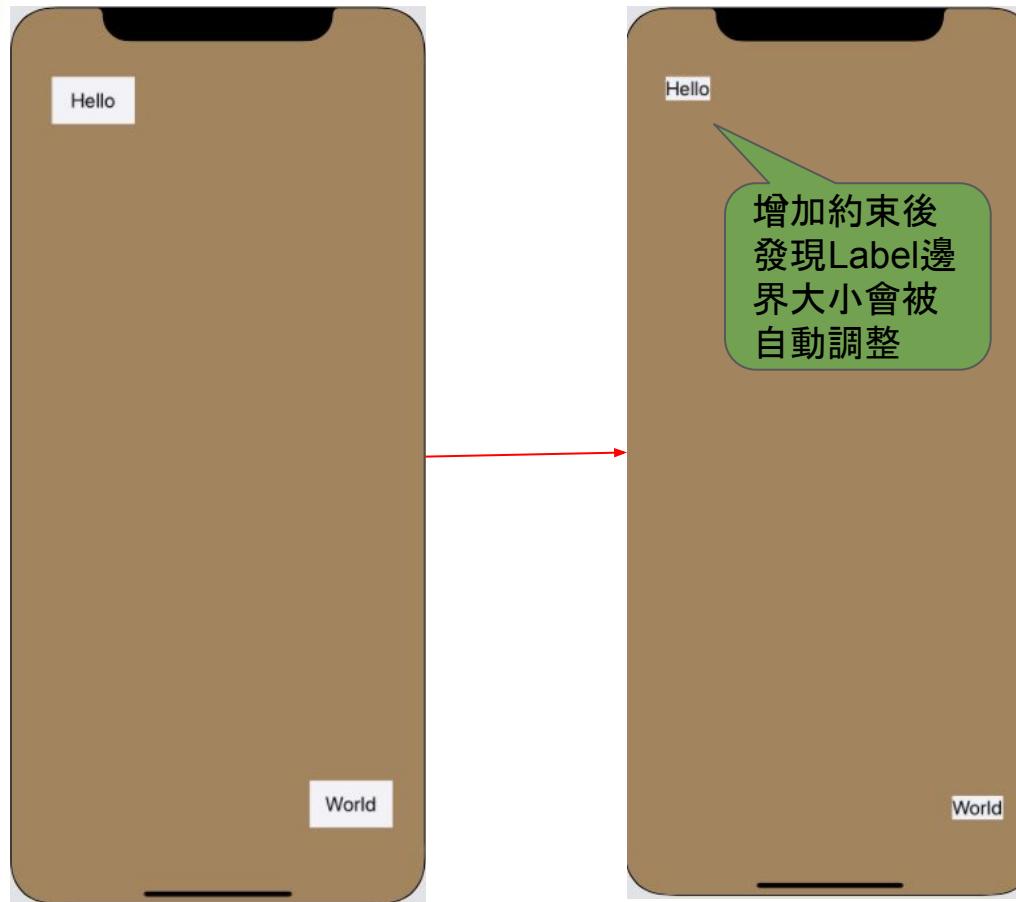
Auto Layout



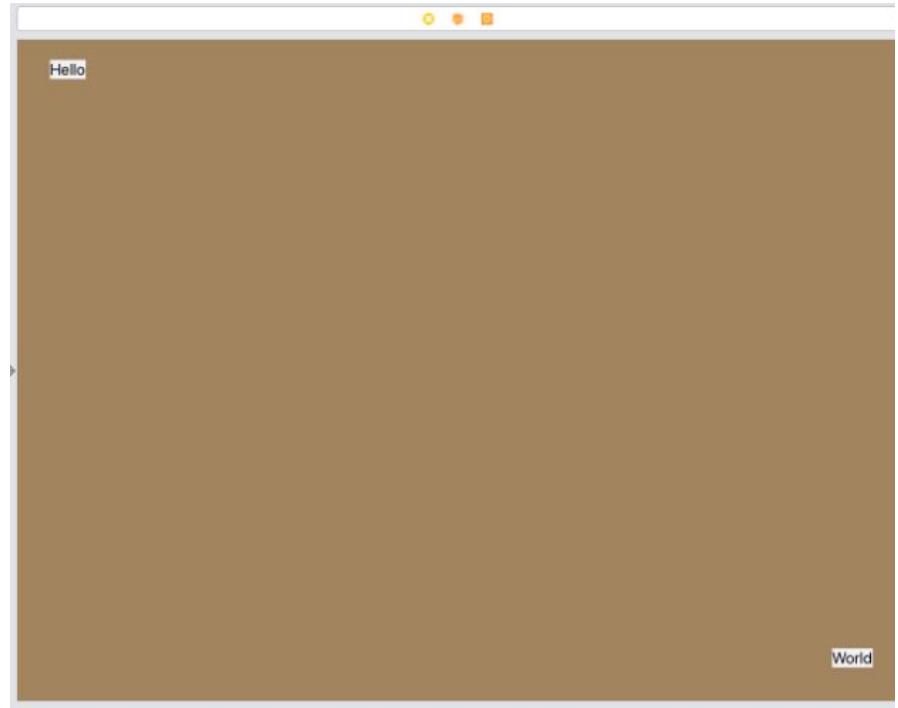
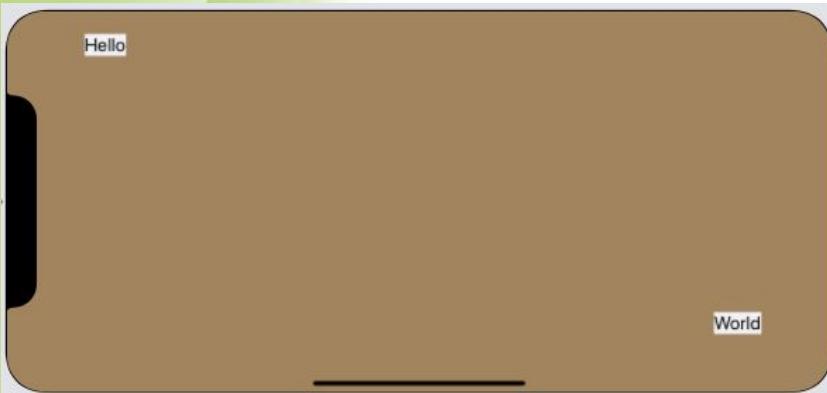
Auto Layout



Auto Layout

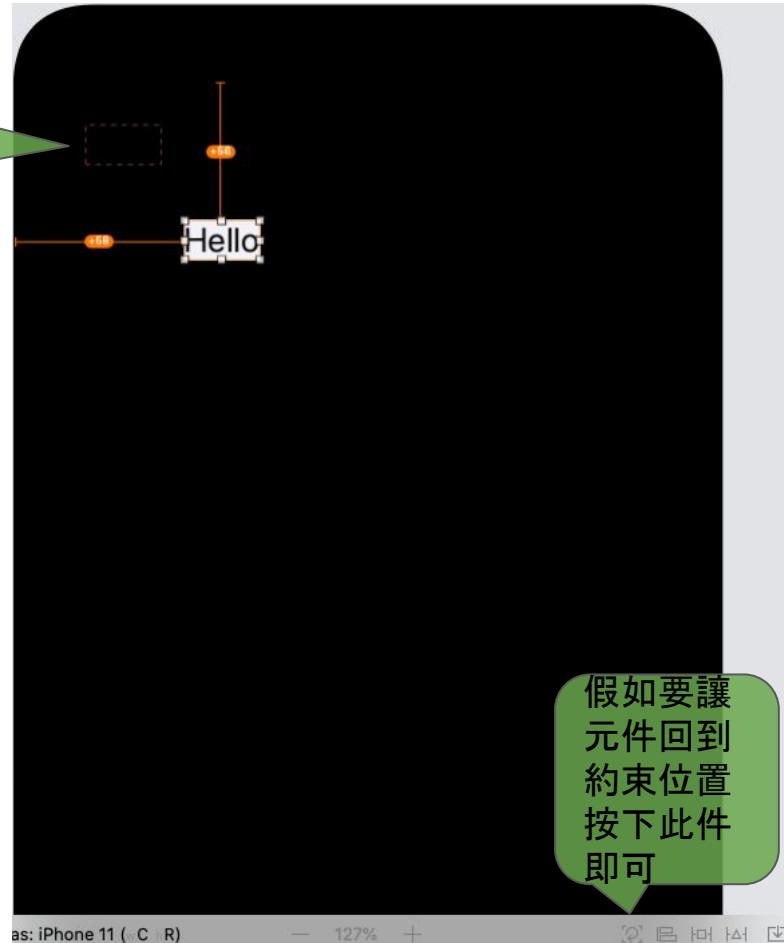


Auto Layout



Auto Layout

增加約束後
即使移動他
最後也會照
約束位置顯
示



Auto Layout

The screenshot shows the Xcode interface with the storyboard open. The left sidebar displays the View Controller Scene hierarchy, including the View Controller, View, Safe Area, and two labels: 'Hello' and 'World'. The 'Constraints' section lists four constraints: Safe Area.trailing = World.trailing + 32, Safe Area.bottom = World.bottom + 42, Hello.leading = Safe Area.leading + 41, and Hello.top = Safe Area.top + 25.

A green speech bubble points to the storyboard area, containing the text: "可以從兩個地方察看約束其一是這".

The main canvas shows a dark view with a white 'Hello' label centered. A blue constraint line connects the 'Hello' label to the top edge of the safe area.

A green speech bubble points to the bottom right of the 'Hello' label, containing the text: "其二是這".

The right panel is the Attribute Inspector for the 'Hello' label. It shows the following settings:

- Label**: Desired Width: Automatic, Explicit unchecked.
- View**: Show: Frame Rectangle, X: 41, Y: 69, Width: 45, Height: 24.
- Arrange**: Position View.
- Layout**: Automatic.
- Layout Margins**: Default, Safe Area Relative Margins checked.
- Constraints**: Shows a diagram with a label 'Ag' and a constraint line, with 'All This Size Class' selected.
- Horizontal**: Align Leading to: Safe Area, Equals: 41.
- Vertical**: Align Top to: Safe Area, Equals: 25.
- Content Hugging Priority**: Horizontal: 251, Vertical: 251.
- Content Compression Resistance Priority**: Horizontal: 750, Vertical: 750.

Auto Layout

The screenshot shows the Xcode interface with the storyboard editor open. A green callout bubble points from the top right towards the center-left, containing the text: "透過Preview來查看app在各種設備上顯示的樣子" (Use Preview to see how the app looks on various devices).

The storyboard contains a single view with a label "Hello". The label has several blue constraint lines originating from its top edge, indicating vertical spacing constraints relative to the top of its superview.

The right side of the screen shows the "Attributes Inspector" and "Size Inspector" panels. The "Size Inspector" panel is expanded, showing the "Constraints" section. It lists the following constraints:

- ✓ Constraints
 - Intrinsic Size Constraints Contributing To Ambiguity
 - Involved Views For Selected Constraints
 - Layout Rectangles
 - Bounds Rectangles
- ✓ Device Bezels
- ✓ Placeholder Backgrounds
- ✓ Document Outline
- ✓ Snap to Guides
- ✓ Automatically Refresh Views

Below the constraints, there are checkboxes for "PreserveSuperview Margins", "Follow Readable Width", "Safe Area Relative Margins" (which is checked), and "Safe Area Layout Guide".

The "Constraints" section shows a diagram of the "Hello" label with horizontal and vertical dashed lines representing the applied constraints. The "This Size Class" tab is selected.

Under the "Horizontal" section, one constraint is listed: "Align Leading to: Safe Area Equals: 41".

Under the "Vertical" section, one constraint is listed: "Align Top to: Safe Area".

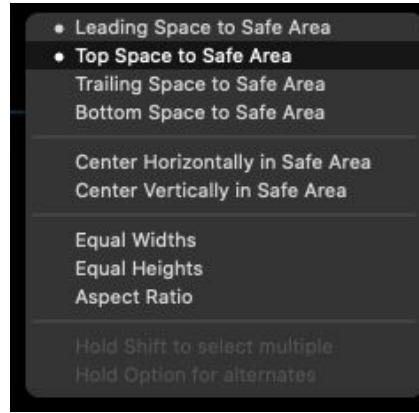
Auto Layout

The screenshot shows the Xcode interface with the following elements:

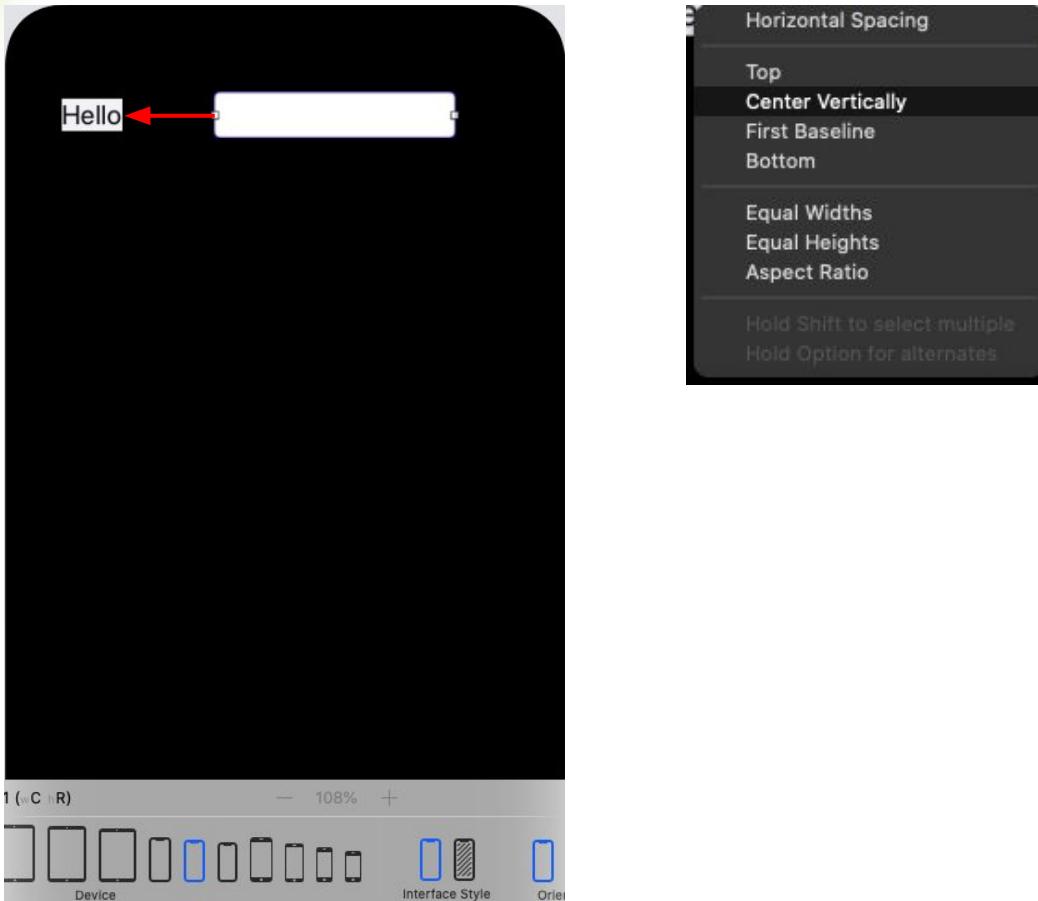
- Left Panel (Document Outline):** Shows the project structure with "World" as the root item, expanded to show "Constraints" which include "Safe Area.trailing = World.trailing + 32", "Safe Area.bottom = World.bottom + 42", "Hello.leading = Safe Area.leading + 41", and "Hello.top = Safe Area.top + 25". Other items listed are "FirstResponder", "Exit", and "Storyboard Entry Point".
- Preview Area:** Displays three devices:
 - iPhone 11 - Portrait - Light Style:** Shows the word "Hello" at the top and "World" at the bottom.
 - iPhone SE - Landscape - Light Style:** Shows the word "Hello" on the left and "World" on the right.
 - A third, partially visible iPhone device is shown below the first two.
- Bottom Left:** A green callout bubble points to the "Device" dropdown menu in the preview toolbar, containing the text: "按此可以新增預覽設備" (Click here to add new preview device).
- Bottom Right:** A green callout bubble points to the bottom of the iPhone 11 preview, containing the text: "設備下方有旋轉鈕可以旋轉" (There is a rotation button at the bottom of the device for rotation).

Auto Layout

會跳出約束選單

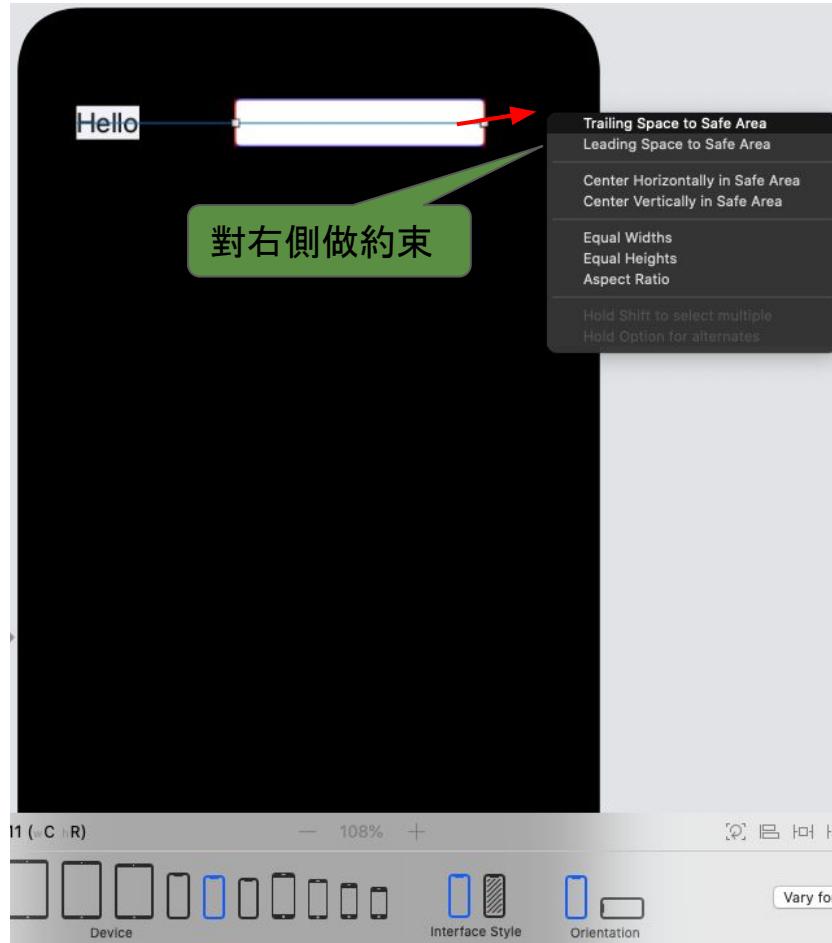


Auto Layout

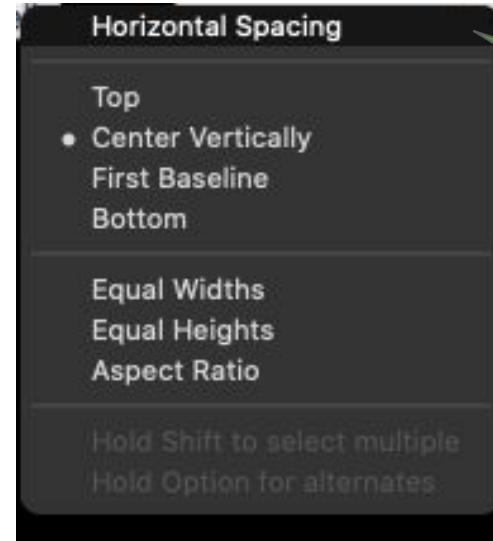


設定TextField
中心點Y座標
與Label相同

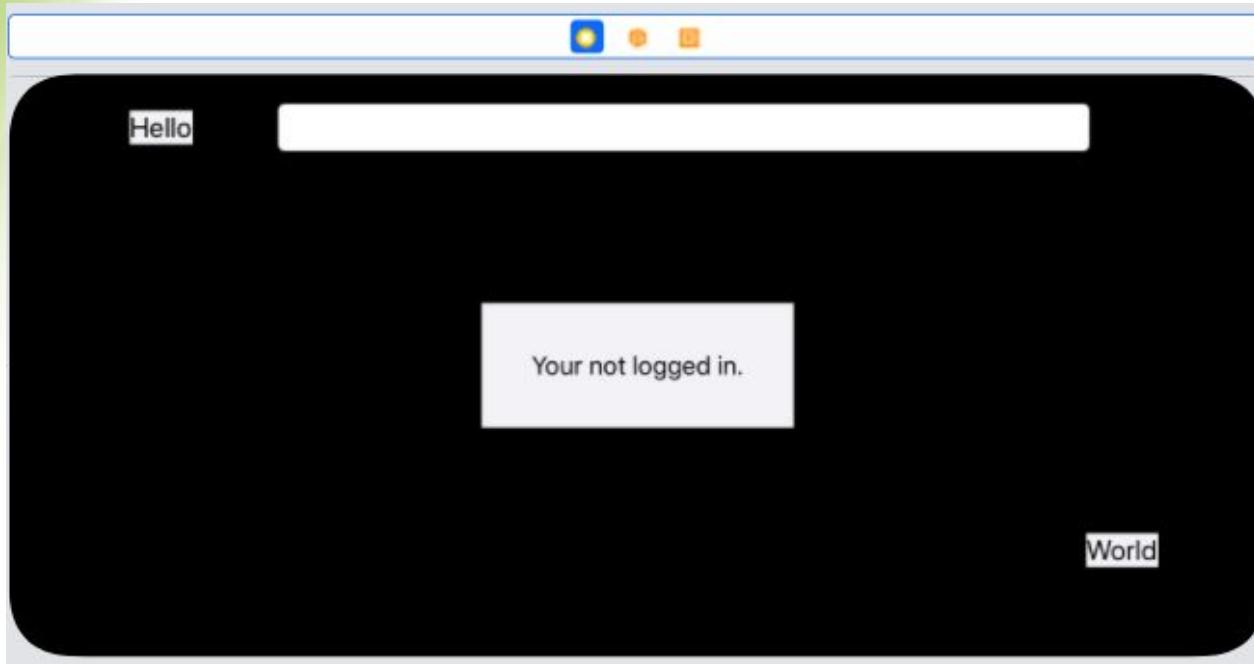
Auto Layout



Auto Layout



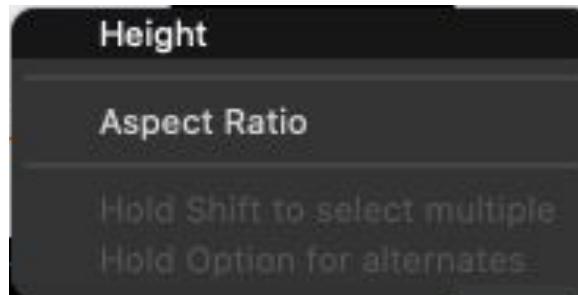
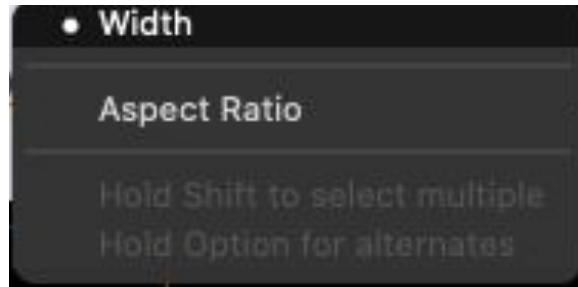
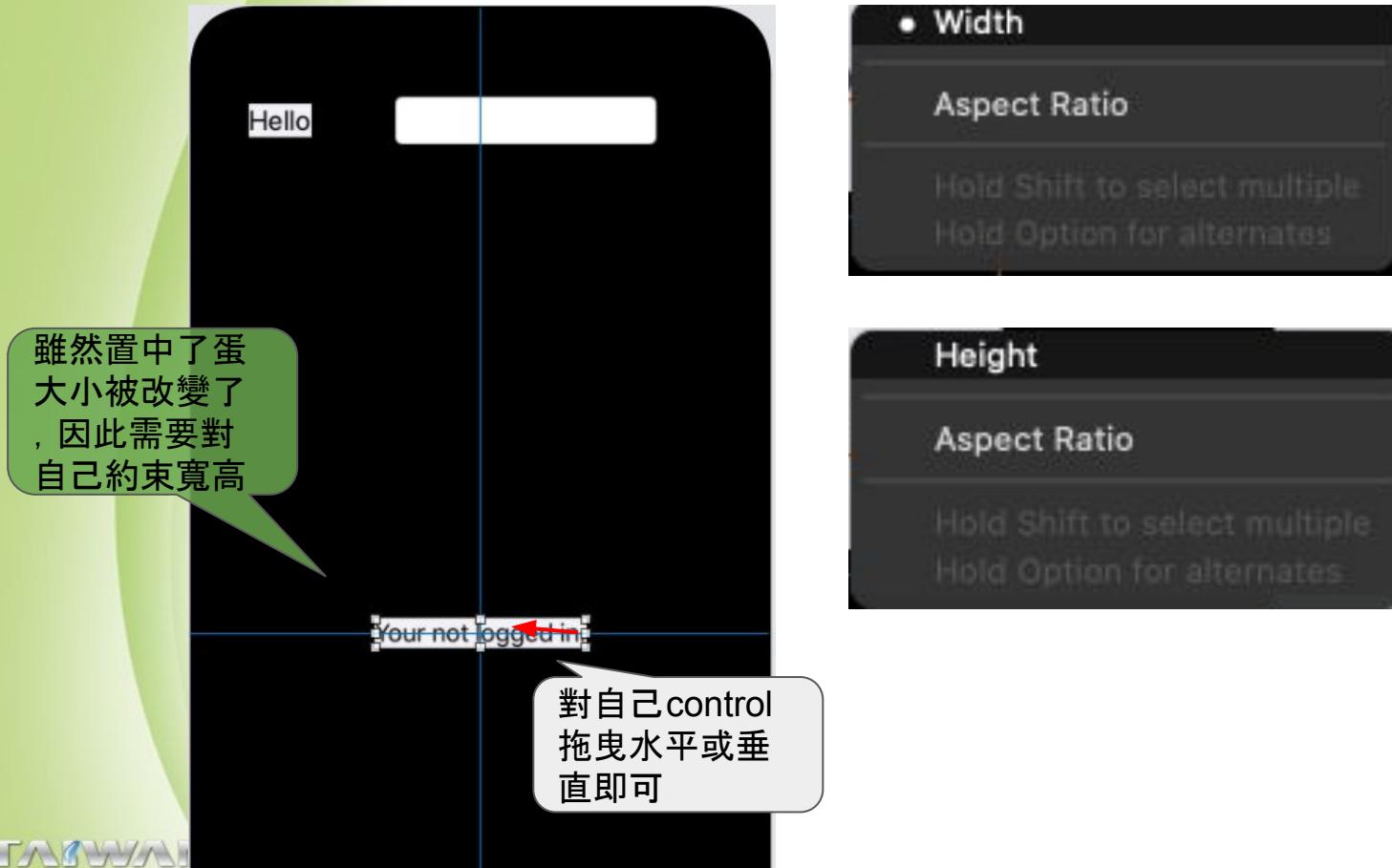
Auto Layout



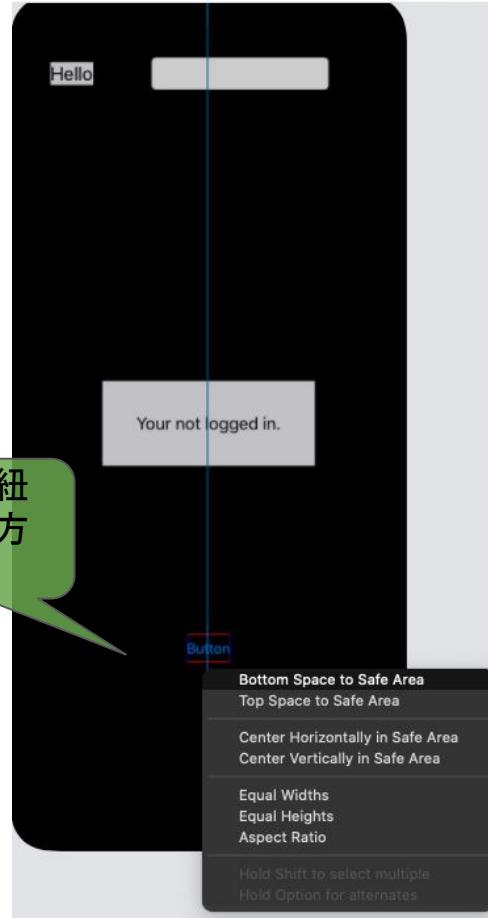
Auto Layout



Auto Layout

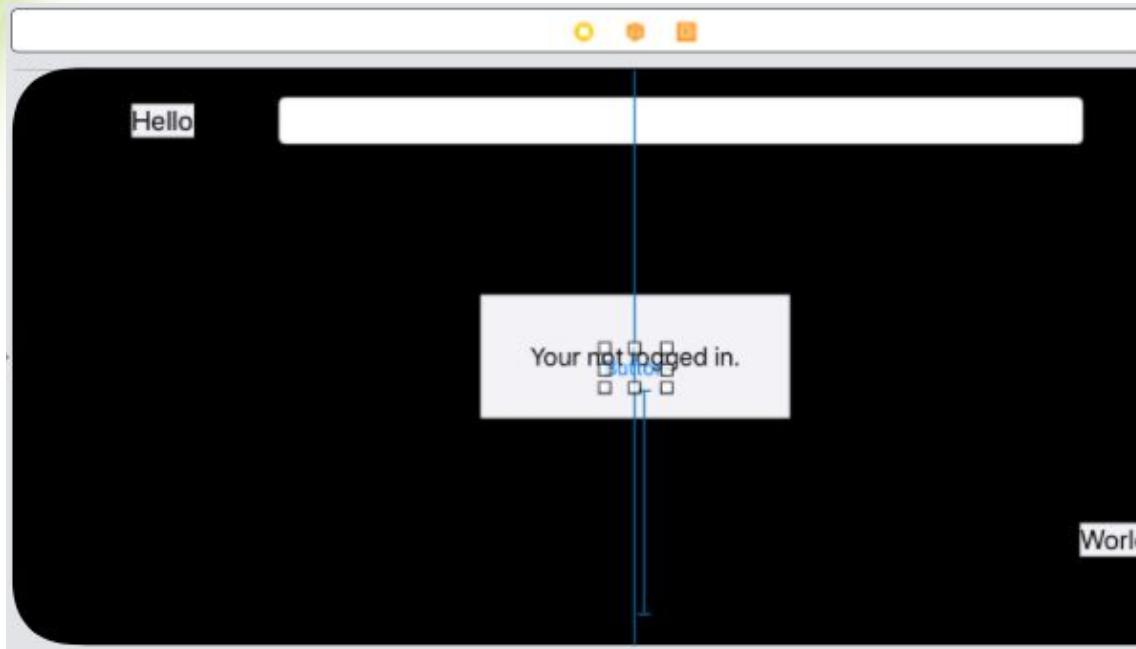


Auto Layout



新增按紐
並對下方
做約束

Auto Layout



Auto Layout

The screenshot shows a Xcode interface with a storyboard on the left and a constraint editor on the right.

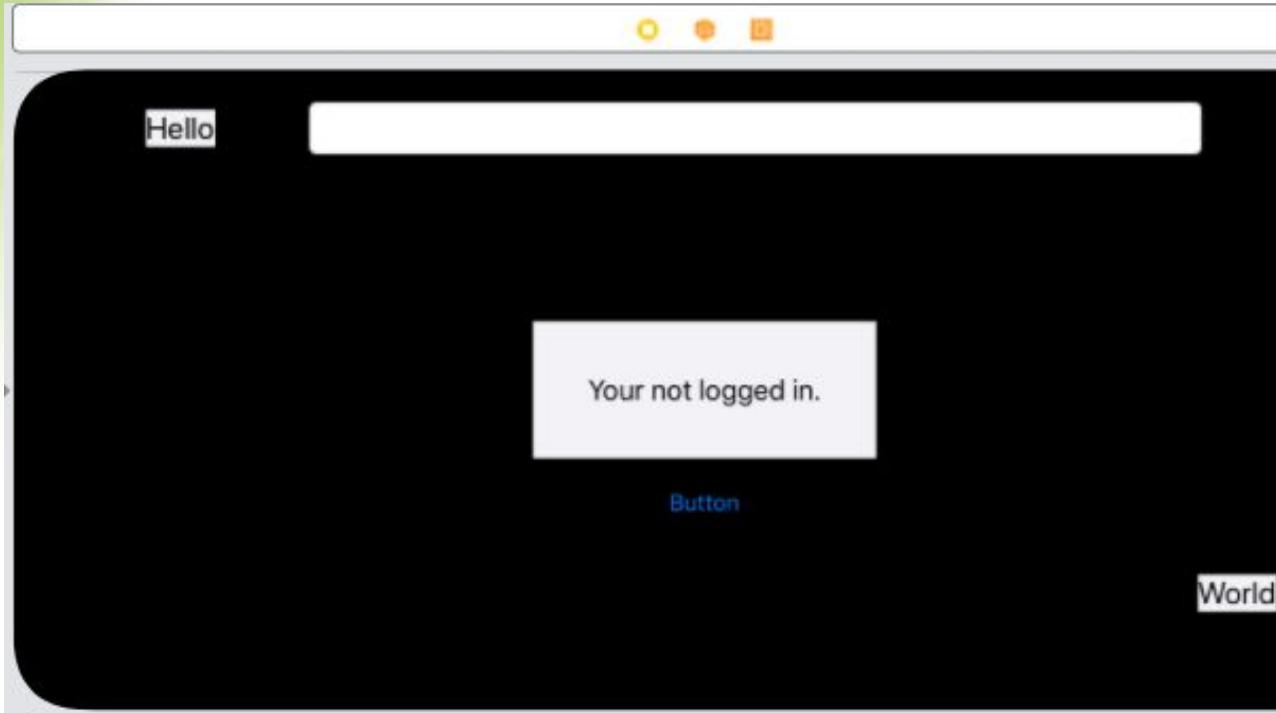
Storyboard View: A black rounded rectangle contains a white rectangular view with the text "Your not logged in.". Below it is another white rectangular view with the text "World". A blue dashed grid shows the layout constraints.

Constraint Editor (Top Left): Shows constraints for a view. Top: Bottom = 0, Right = 0. View: Frame Rectangle (X: 184, Y: 616.5, Width: 46, Height: 30). Arrange: Position View. Layout: Automatic. Layout Margins: Default. Constraints: Safe Area Relative Margins (checked), Safe Area Layout Guide.

Constraint Editor (Bottom Right): Shows a constraint for a view. Constant: 0, Priority: 1000, Multiplier: 4/3. Constraint Type: Align Bottom to: Safe Area. Edit button.

Text Callout: A green callout points to the "Multiplier" field in the constraint editor, with the text: 更改剛剛對下方的約束以畫面比例來做約束 (Change the constraint for the bottom view to use the screen ratio).

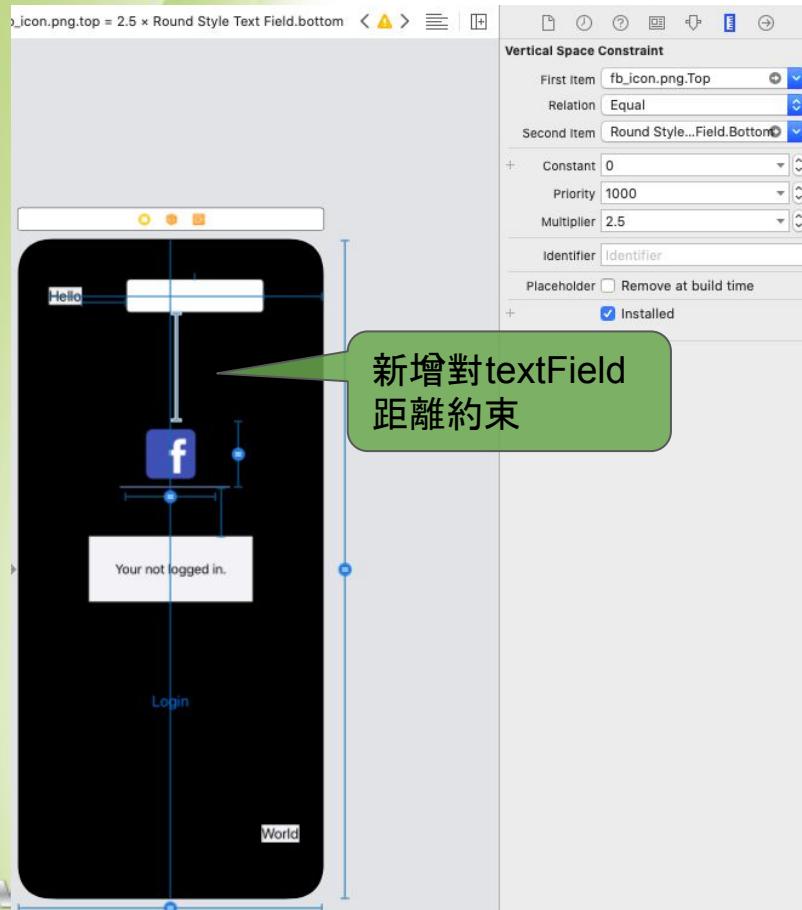
Auto Layout



Auto Layout



Auto Layout

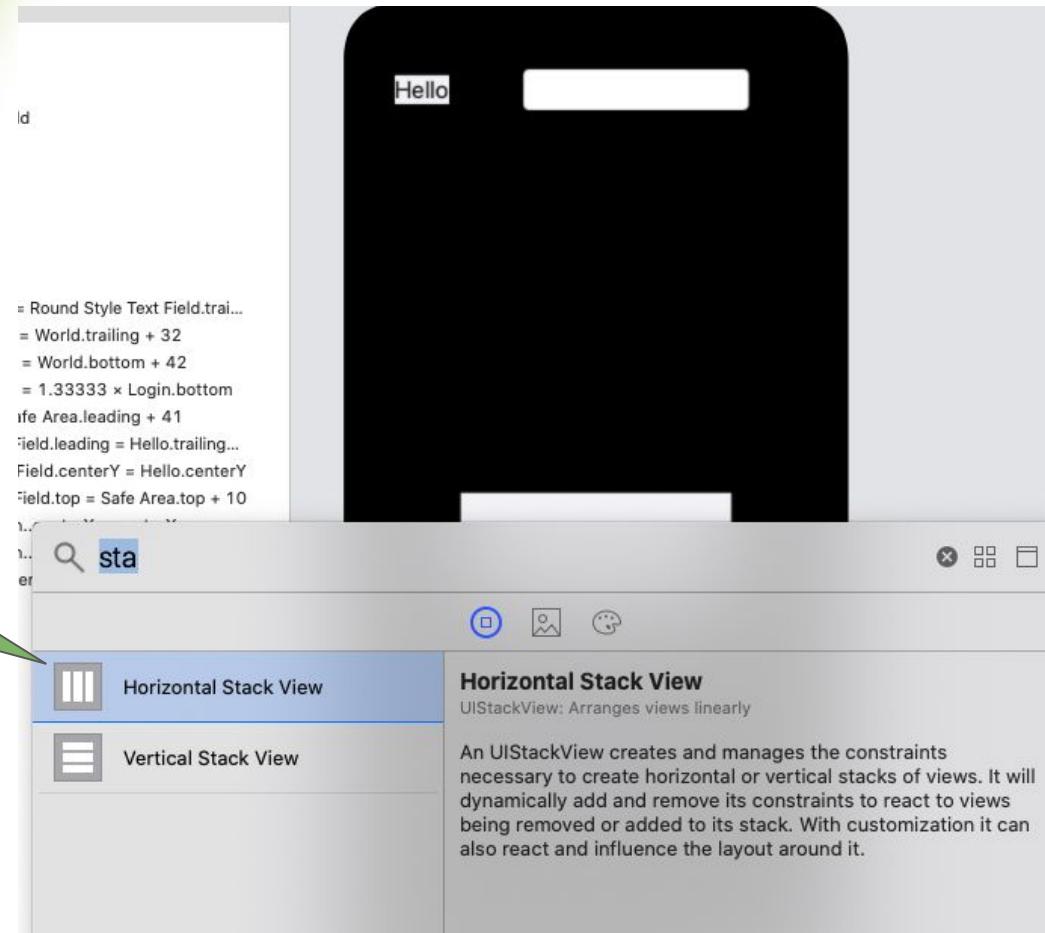


新增對textField
距離約束

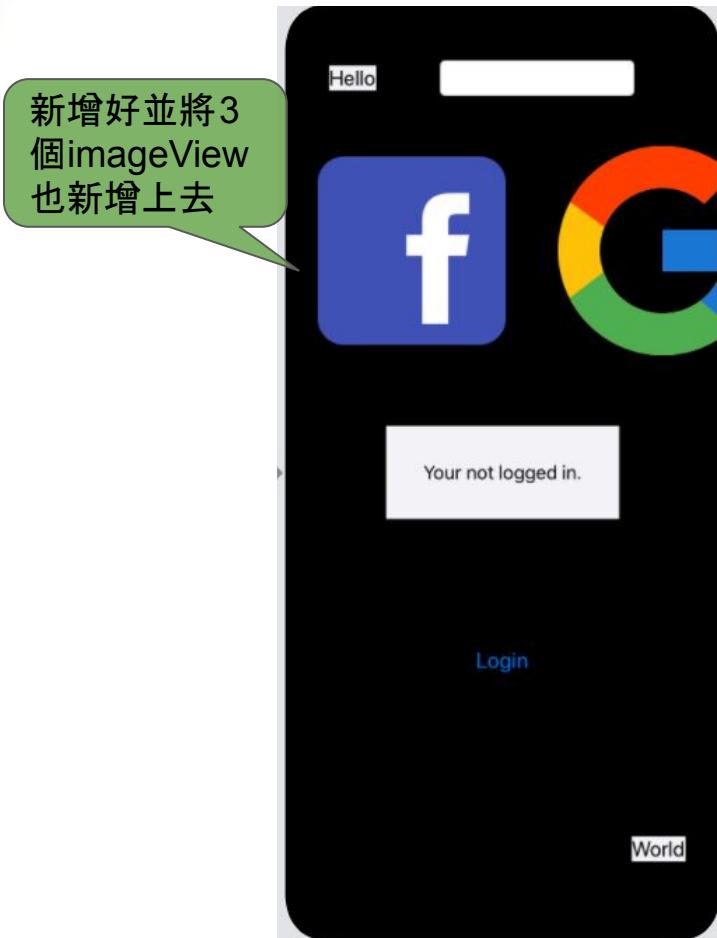


新增對Label距
離約束

Auto Layout

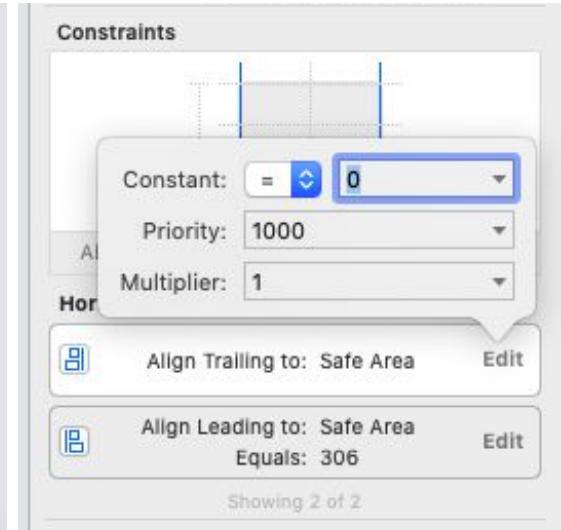
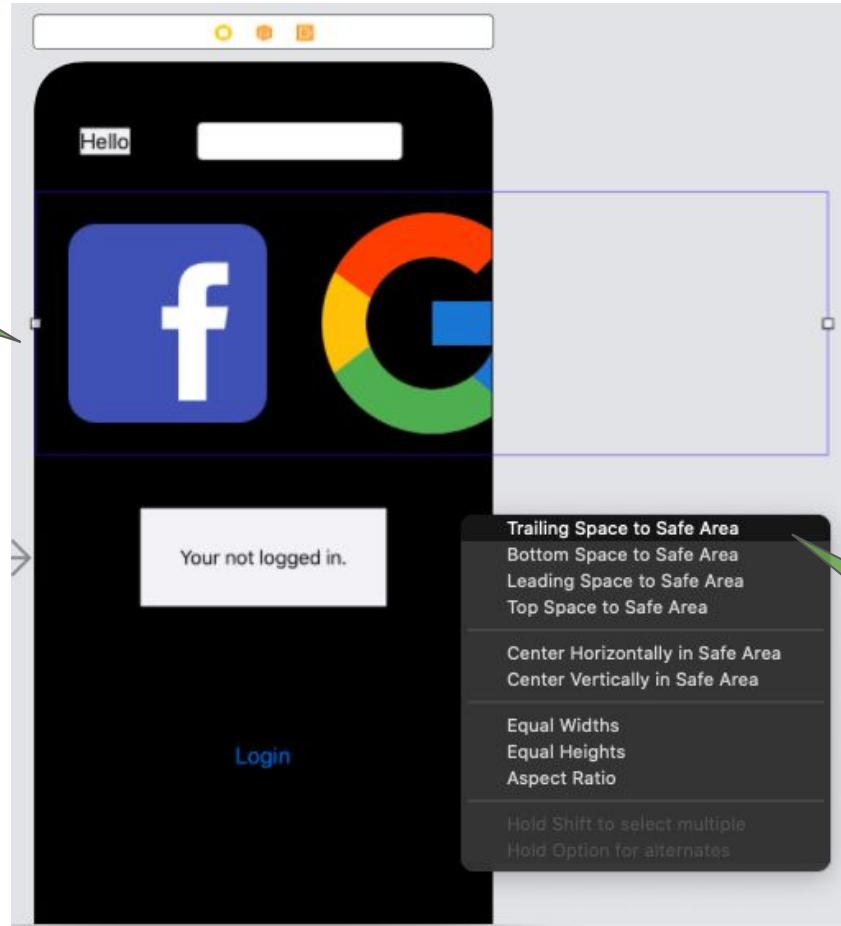


Auto Layout



Auto Layout

StackView是沒辦法手動調整大小的要透過約束去限制大小



新增對右邊的限制

Auto Layout

The screenshot shows the Xcode interface with the storyboard on the left and the "Constraints" inspector on the right.

Storyboard View: Displays a black view containing a "Hello" label at the top, a white rectangular placeholder below it, and two large circular icons (one orange/red, one blue) on the right. A context menu is open over the blue icon, listing various constraint options.

Constraints Inspector: Shows the "Constraints" table with two entries. The first entry is selected, showing the following details:

- Constant: 0
- Priority: 1000
- Multiplier: 1

The constraint is aligned to the "Safe Area" with an equals value of 306.

Content Hugging Priority: Set to 250 for both horizontal and vertical directions.

Content Compression Resistance Priority: Set to 250 for both horizontal and vertical directions.

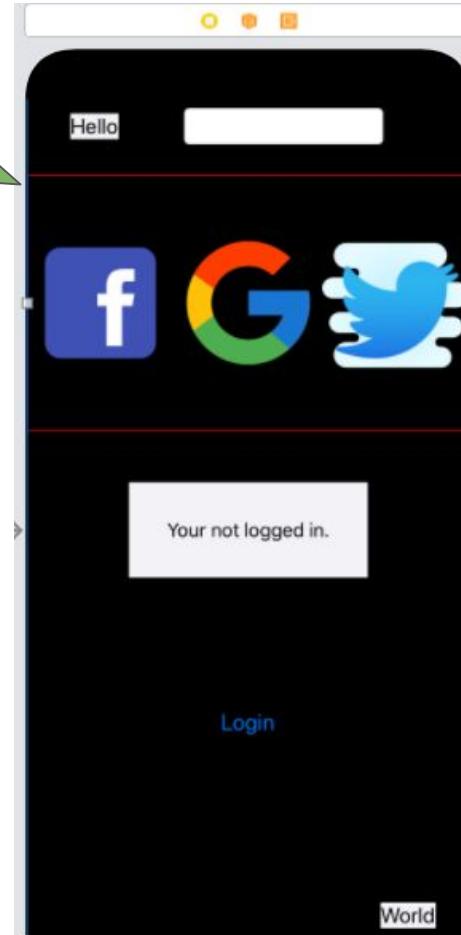
Context Menu Options (Visible in Storyboard View):

- Leading Space to Safe Area
- Bottom Space to Safe Area
- Trailing Space to Safe Area
- Top Space to Safe Area
- Center Horizontally in Safe Area
- Center Vertically in Safe Area
- Equal Widths
- Equal Heights
- Aspect Ratio

A callout bubble points to the "Leading Space to Safe Area" option with the text: "新增對左邊的限制" (Add constraint to the left).

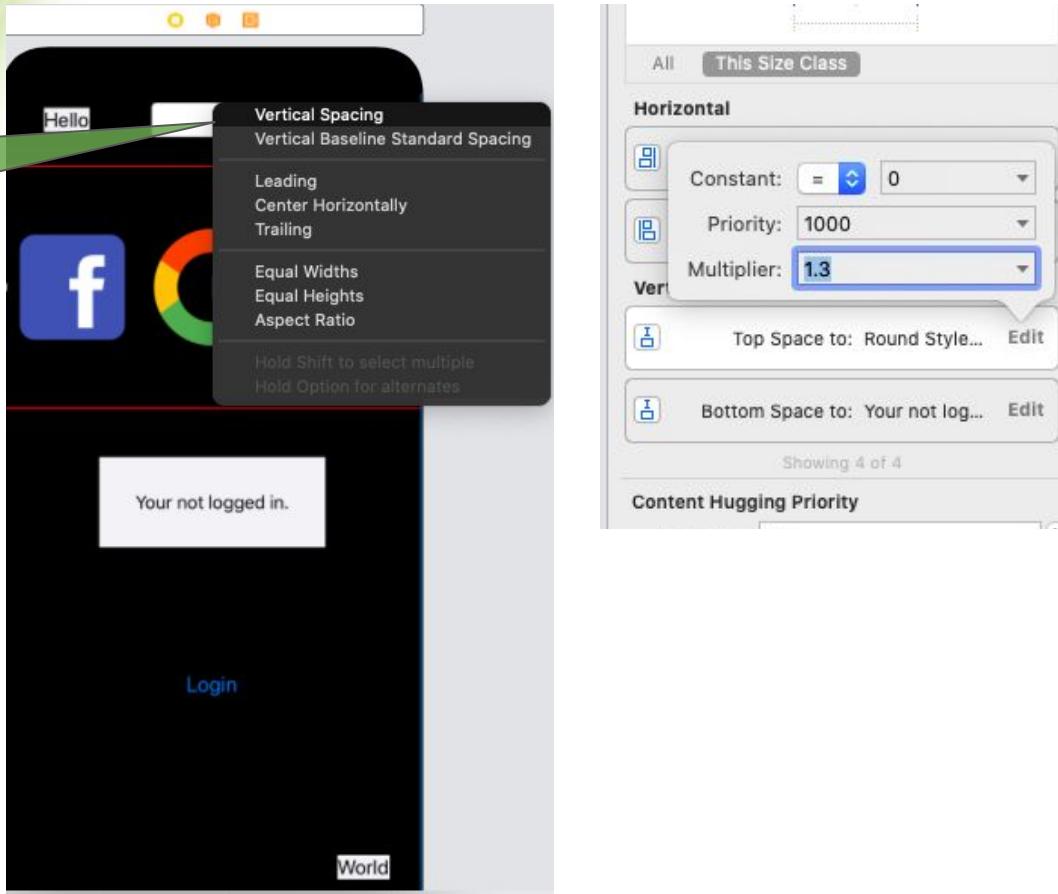
Auto Layout

當左右約束好會發現寬度訂好了，剩下高度，當約束出現紅色時代表有問題通常是約束互相衝突，而這邊是告訴你高度還沒做限制



Auto Layout

與上面的原
件做約束

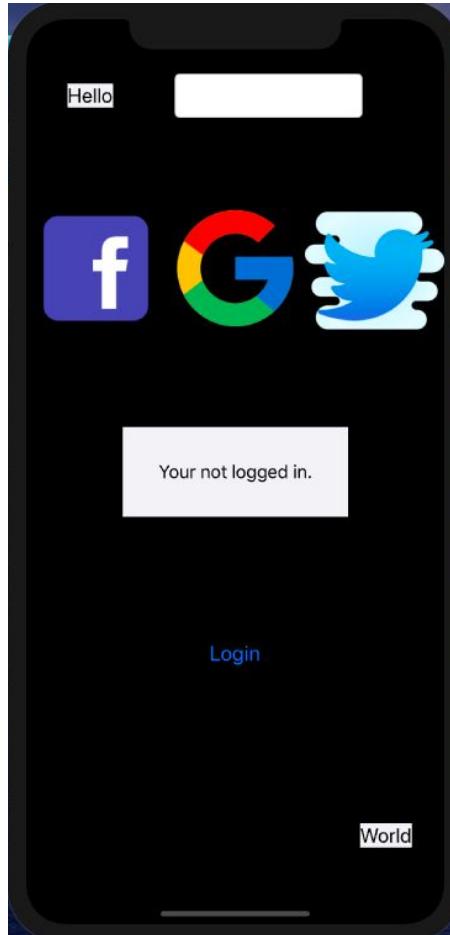


Auto Layout

The image shows a screenshot of the Xcode interface. On the left, a preview window displays a black screen with three social media icons: Facebook, Google, and Twitter. Above the icons, there is some text and a white input field. A green callout bubble points from the bottom-left towards a context menu that is open over the input field. The menu lists various Auto Layout constraints: Vertical Spacing, Vertical Baseline Standard Spacing, Leading, Center Horizontally, Trailing, Equal Widths, Equal Heights, and Aspect Ratio. At the bottom of the menu, there are two instructions: "Hold Shift to select multiple" and "Hold Option for alternates". On the right side of the image, the "Constraints" panel is open, showing a grid diagram and a list of constraints. The selected constraint is "Align Trailing to: Safe Area" with a constant of 0, priority of 1000, and a multiplier of 1.1. Other listed constraints include "Bottom Space to: Your not log..." and "Edit". The "Horizontal" tab is selected in the panel.

與下面的
原件做約束

Auto Layout



Hw02



Hw02

這邊給個提示
不需要新增很多
viewcontroller—
個就可以



Hw02

在刪除的模式下按新增
沒用必須先按返回



Hw02

