

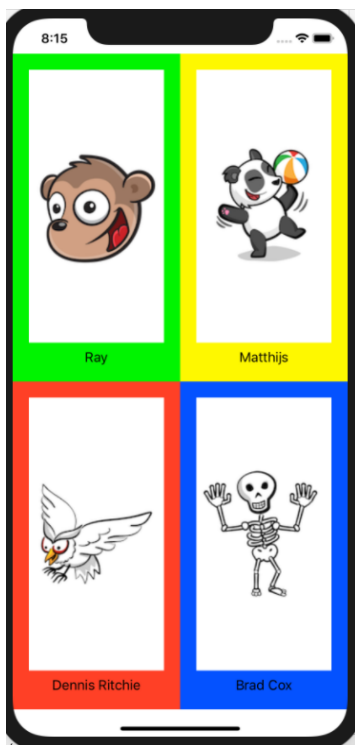
Computer Science 316

iOS App Development

Lab Assignment #4

Due: Sunday, February 13, 2022 (Before midnight)

1. Create a new single view iOS project with XCode named AutoLayout. Download images.zip from our Moodle site (Lab 3) and copy all four images into Assets.xcassets of your XCode project. Next open a browser and go to <https://www.raywenderlich.com/811496-auto-layout-tutorial-in-ios-getting-started>. Scroll down to the middle of the online tutorial and look for section titled "Putting it into Practice: Gallery Example". Follow the instructions to complete the tutorial. Your simulator should produce screen outputs similar to these below when rotated:



2. Create a single view iPhone app with XCode using five Labels, three TextFields, two TextViews and a Button to provide input and output outlets and appropriate action. Appropriate keyboard should show up for the user to enter a place (e.g. a city), a verb, and a number and should disappear when the user finishes editing. When the user click on the button (Create Story), the text template will be used with the input substitutions of <place>, <verb> and <number>, and displayed in the Story text view area as shown below. **Hint: using the replacingOccurrences() function of String would be a lot easier.**

Place:

Verb:

Number:

Template:

The iOS developers descended upon <place>.
They vowed to <verb> night and day, until all
<number> Android users came to their senses.
<place> would never be the same again.

Story:

Create Story

Number:

Template:

The iOS developers descended upon <place>.
They vowed to <verb> night and day, until all
<number> Android users came to their senses.
<place> would never be the same again.

Story:

| | | |
|---|----------|----------|
| 1 | 2 ABC | 3 DEF |
| 4 | 5 | 6 |

Number:

Template:

The iOS developers descended upon <place>.
They vowed to <verb> night and day, until all
<number> Android users came to their senses.
<place> would never be the same again.

Story:

Carrier

4:38 PM

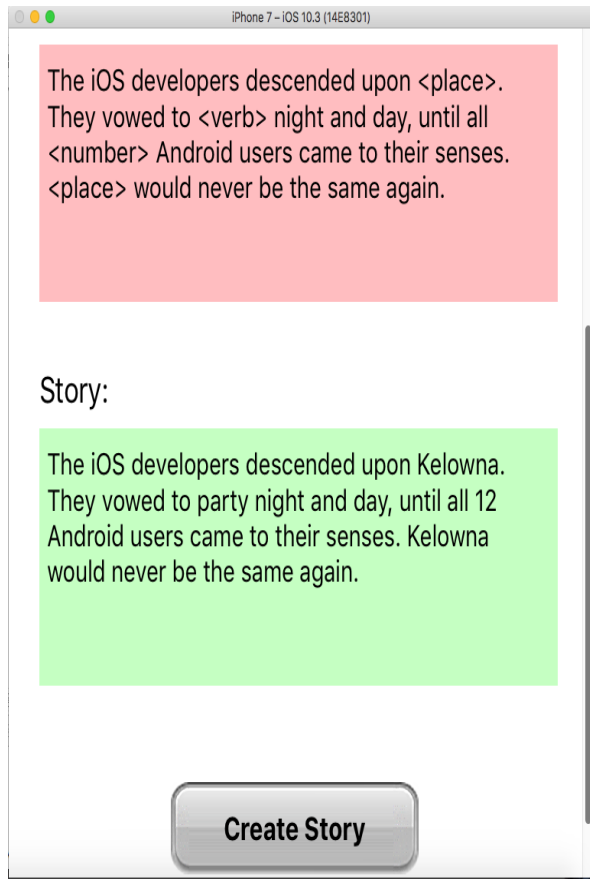
Place:

Verb:

Number:

Template:

The iOS developers descended upon <place>.
They vowed to <verb> night and day, until all
<number> Android users came to their senses.
<place> would never be the same again.



3. Recreate the given program named ***“BunniesHop”*** as follows:

- Use a different background image file of your choice.
- Use two UIImageViews (instead of five) for showing only two animations of “Bunny Hop”. One is on the right and the other is on the left of the screen. One animation is about hopping up while the other is about falling down in the animation sequence at the same speed.
- Use a “Segmented Control” to replace the “Stepper” for adjusting the value of the Slider. The Segmented Control being used should have five segments: Low, Medium-Low, Medium, Medium-High, High. Figure out each value represented by each segment to be used for adjusting the value of the Slider accordingly.

Submitting your work:

Copy all three iOS project folders into **Lab4** folder. Then compress your **Lab4** folder and submit it via [Lab 4](#) link on our Moodle course page by *Sunday, February 13, 2022 (before midnight)*.