

CS 329E

Elements of Mobile Computing

Fall 2017

University of Texas at Austin

Lecture 12

Agenda

- Page View Controller
- Tab Bar Controller
- Homework 6

Page View Controller

Page View Controller

- Classified as a *container* controller.
 - A container controller is used to contain and manage multiple view controllers shown in the app, as well as, controlling the way one view controller switches to another.
- Each page has its own view controller.

Page View Controller

The *UIPageViewController* is a highly configurable class, in which you are allowed to define:

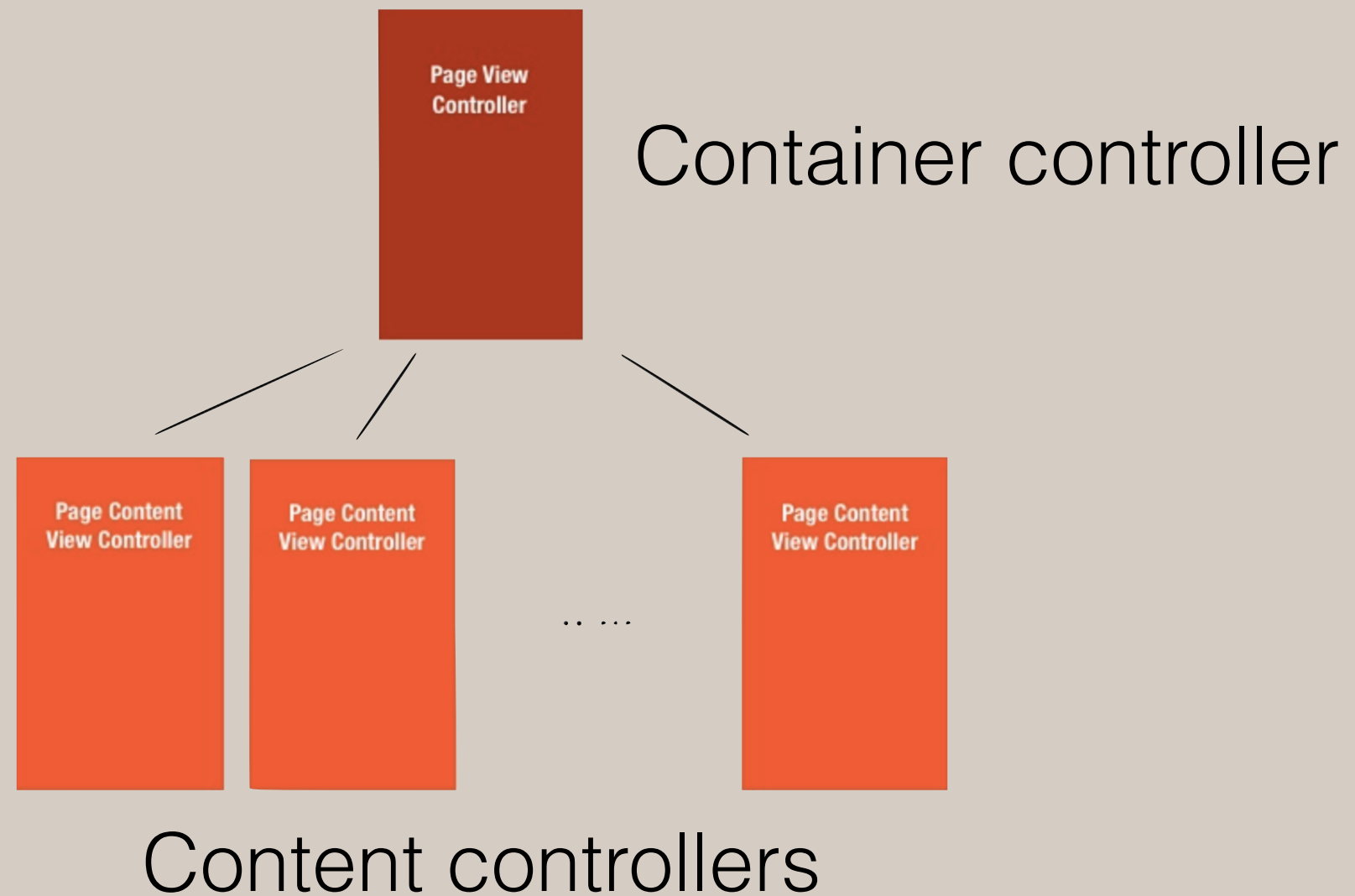
- The orientation of the page views – vertical or **horizontal**
- The transition style – page curl transition style or **scrolling** transition style
- The location of the spine – only applicable to page curl transition style
- The space between pages – only applicable to scrolling transition style to define the inter-page spacing

Page View Controller

Typical uses of a page view controller:

- Demo pages of app
- Help pages of app
- Electronic books
- Picture viewer

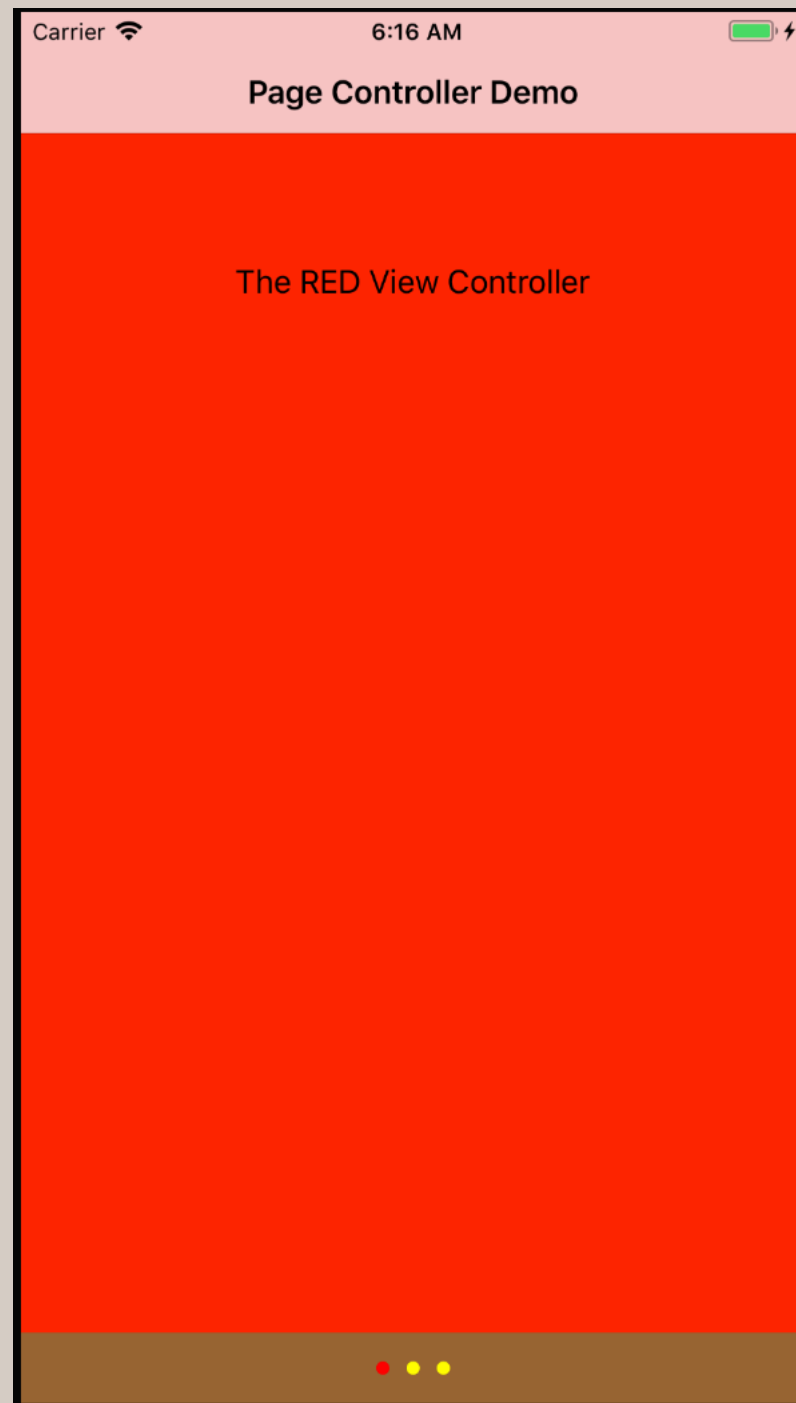
Page View Controller



Page View Controller

Demo:

- TestPageVC:
 - 3 pages



In-Class Exercise

In-Class Exercise

Create an app with a page view controller.

Tab Bar Controller

Tab Bar Controller

- Classified as a *container* controller.
- Each tab has its own view controller.

Tab Bar Controller

Creating a Tab Bar Controller app using the storyboard:

- If not already there, drag a Tab Bar Controller onto the storyboard.
 - It includes 2 child view controllers.
- Drag as many view controllers as needed onto the storyboard.
- For each view controller, control-drag from the tab bar controller to the view controller and select 'view controllers' Relationship Segue.
 - You should see a new tab appear in the tab bar controller.

Tab Bar Controller

Creating a Tab Bar Controller app using the storyboard (continued):

- You can change the tab bar item text and/or image in Interface Builder by single clicking on the tab in each individual view controller and modifying the text and/or image in the Attributes Inspector.

Tab Bar Controller

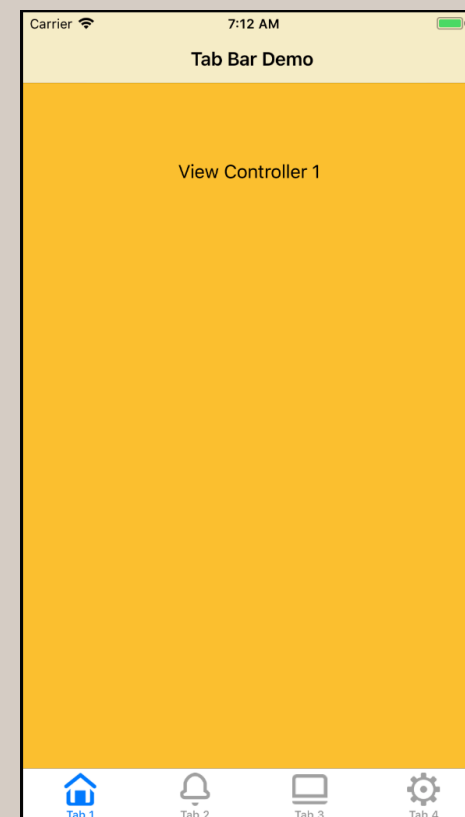
Tab Bar Controllers can not be wrapped in a Navigation Controller.

If you want to include a navigation bar at the top of each of your screens, you have to wrap each tab's view controller in their own navigation controller.

Tab Bar Controller

Demo:

- TestTabBarController2 - creating a tab bar via the storyboard.
- TestTabBarController3 - creating a tab bar programmatically.



Homework

Homework

Homework 6:

- Create an application that uses:
 - Navigation controller
 - Page view controller
 - Page control
 - UIImageView