RSSReader

Lesson 7



Description

Add the individual RSS feed URLs as user defined runtime attributes for each view controller, and use the attribute to retrieve different data within each view controller.

Learning Outcomes

- Distinguish differences between class definitions and instances.
- Practice creating user defined runtime attributes using Interface Builder IBInspectable properties.
- Describe how storyboards assign user defined runtime attributes to IBInspectable controller properties.



Vocabulary

RSS feed	URL	property
user defined runtime attribute	inspectable attribute	@IBInspectable

Materials

- RSSReader Lesson 7 Xcode project
- RSS feed URLs text file (feedurls.txt)
- Internet connectivity to the ax.itunes.apple.com domain

Opening

If each controller will perform an identical operation, but each will use a different RSS feed url, how can we use different RSS feeds with each controller?

Agenda

- Discuss how the songs, albums, apps and movies RSS feeds all have a similar data structure, but that each controller instance will need to use a different RSS feed URL.
- Within the TopMediaController interface, change the titleText property to feedURL.

```
@IBInspectable var feedURL: String!
```

- Using Interface Builder, select a view controller, open the Identity Inspector (\tag{83}), and delete the old titleText user defined runtime attribute. Repeat the attribute removal for each view controller.
- Using Interface Builder, select the Top Song view controller, open the Attributes Inspector (\tau\mathbb{H}4), and change the Feed URL attribute value to http://ax.itunes.apple.com/WebObjects/MZStoreServices.woa/ws/RSS/topsongs/limit=1/json.
- Update the inspectable Feed URL attribute for the remaining view controllers, using the appropriate url provided in the **feedurls.txt** file.
- Update the implementation of viewDidLoad to use the feedURL property.

```
func viewDidLoad() {
   super.viewDidLoad()
   let request = NSURLRequest(URL: NSURL(string: feedURL)!)
...
```

- Discuss how each controller instance will rely on the particular value of its feedURL property to retrieve the RSS data.
- Run the app (***R**), interact with each tab, and observe how each tab displays the respective top song, album, app and movie data.

Closing

Use a web browser to examine the actual RSS feed data. Do you see a way we might retrieve an image for the song, album, app and movie?

Modifications and Extensions

• Increase the robustness of the controller by using optional binding to check that the feedURL exists before using it to instantiate an NSURLRequest object. Display an appropriate alert view if a problem occurs.

Resources

Apple RSS Feeds http://www.apple.com/rss/

The Swift Programming Language: Properties https://developer.apple.com/library/ios/documentation/Swift/Conceptual/Swift_Programming_Language/Properties.html

Interface Builder Help: Adding User Defined Runtime Attributes https://developer.apple.com/library/ios/recipes/xcode_help-interface_builder/Chapters/AddUserDefinedRuntimeAttributes.html

Creating a Custom View that Renders in Interface Builder https://developer.apple.com/library/ios/recipes/xcode_help-IB_objects_media/Chapters/CreatingaLiveViewofaCustomObject.html

The Swift Programming Language: Attributes https://developer.apple.com/library/ios/documentation/Swift/Conceptual/Swift_Programming_Language/Attributes.html

NSURL Class Reference https://developer.apple.com/library/ios/documentation/Cocoa/Reference/Foundation/Classes/NSURL Class/

NSURLRequest Class Reference https://developer.apple.com/library/ios/documentation/Cocoa/Reference/Foundation/Classes/NSURLRequest_Class/