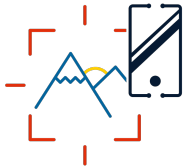


Visit Espresso Lab URL : [ibm.biz/wow-espresso](http://ibm.biz/wow-espresso)



# Mobile ESPRESSO LABS with MobileFirst, Watson and Bluemix



**Lab: create a Watson image recognition app  
with Swift - details:** <https://github.com/blumareks/2016WoW/tree/master/LabVisual>



**Lab: create a Watson text-to-speech app  
with Swift - details:** <https://github.com/blumareks/2016WoW/tree/master/LabTTS>



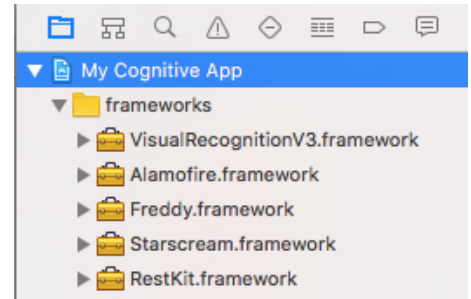
**Lab: create a Watson sentiment analysis  
app with Swift - details:** [https://github.com/blumareks/2016WoW/tree/  
master/LabSentiment](https://github.com/blumareks/2016WoW/tree/master/LabSentiment)

## Lab: create a Watson photo recognition app with Swift

1. fork GUIs from [ibm.biz/wow-espresso](https://github.com/ibm.biz/wow-espresso)
2. from the terminal update packages: `carthage update --platform iOS`

### 3. add the created frameworks to the project:

1. Under the project name, create a new group in your Xcode project called `Framework`.
2. Navigate to the root folder of your project in Xcode and select all the framework files in the `<your project>/Carthage/Build/iOS/` directory of your project (required Watson library framework, Alamofire, RestKit, Freddy, Starscream). Drag and drop those files from Finder into the new `Framework` group in your project in Xcode.
3. Create the new BUILD COPY phase and add the above frameworks.



4. Add the required code to invoke the service from github: [ibm.biz/wow-espresso](https://github.com/ibm.biz/wow-espresso) - and get the **Bluemix Watson Service credentials for:**

- sentiment analysis
- visual analysis
- text to speech

Follow me on Tweeter: @blumareks and read my blog: [blumareks.blogspot.com](http://blumareks.blogspot.com)

Check this Android equivalent: [https://github.com/blumareks/2016EduHackathon\\_SanFrancisco](https://github.com/blumareks/2016EduHackathon_SanFrancisco)

