CodeLab II (CCO5000-20)

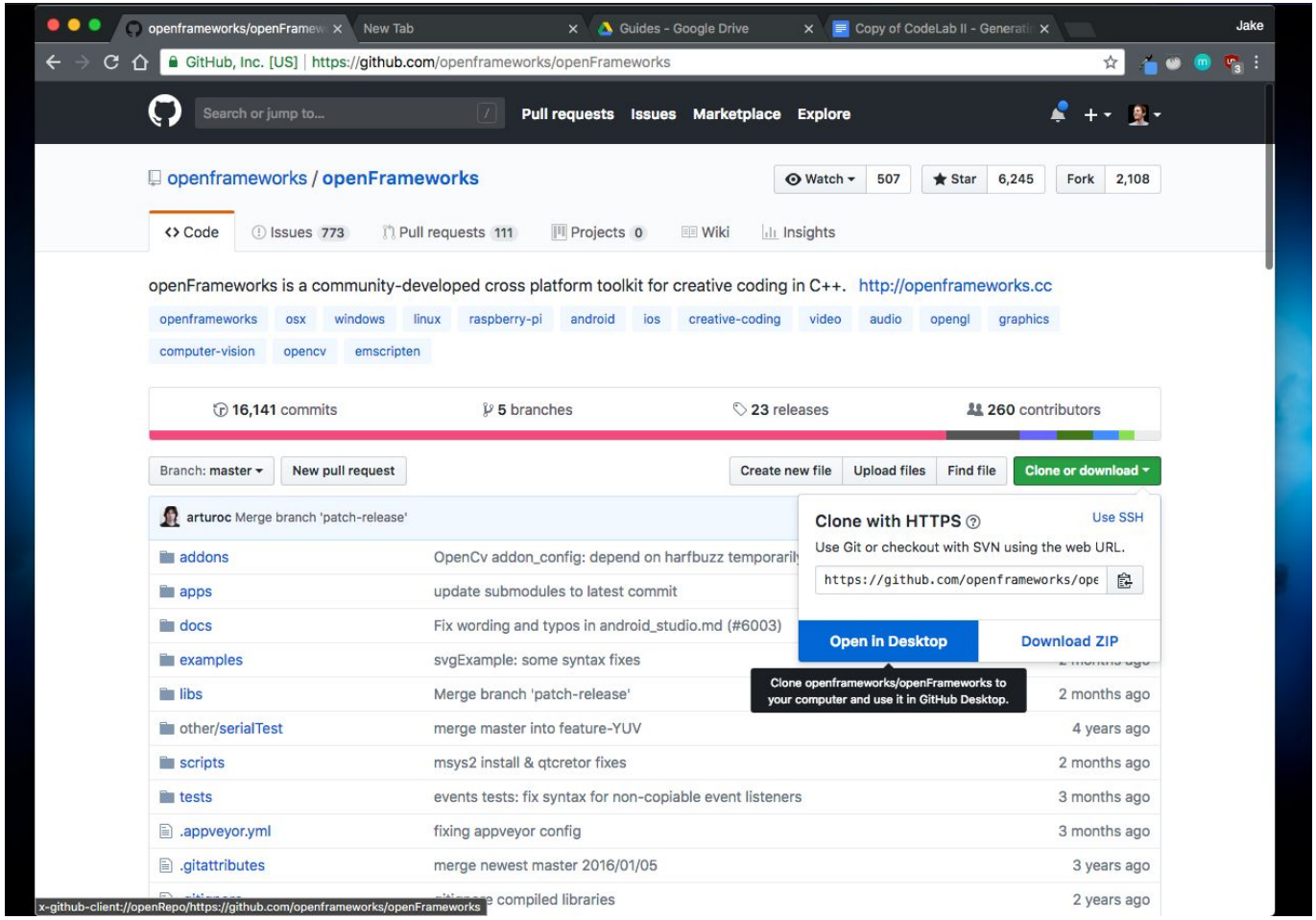
Setting up openFrameworks for Data Driven App - Xcode

Creative Computing
The School of Creative Industries
College of Liberal Arts, Bath Spa University

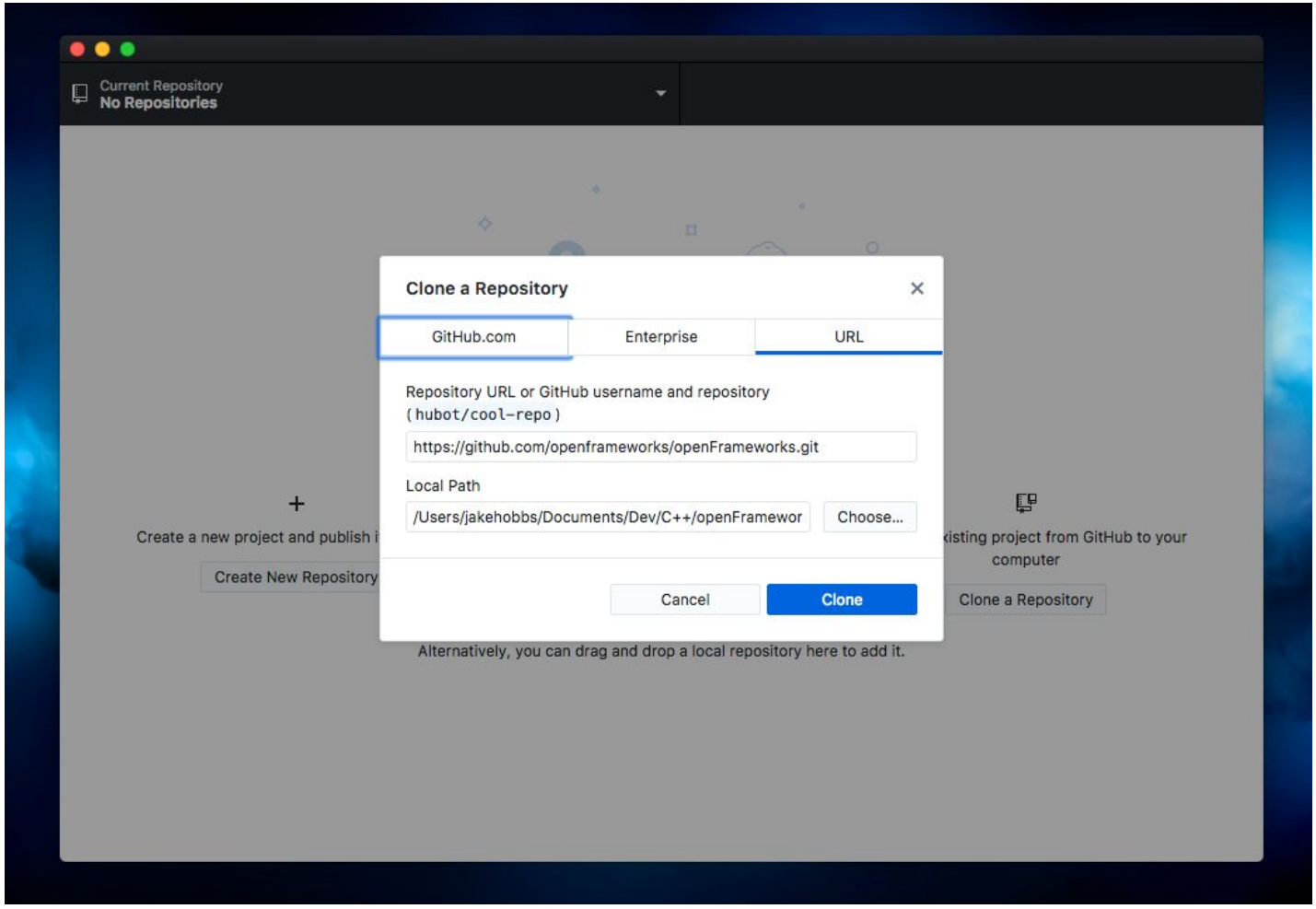
Pre-packaged versions of openFrameworks that have been tested with the twitter addon have been provided on minerva. The following guide provides an insight into the steps followed to put together these pre-packaged versions.

If you wish to follow the guide and download everything yourself you do so at your own risk. As the master version of openFrameworks is constantly changing you may encounter errors not listed in this guide. Therefore I advise using the pre-packaged versions provided, where these steps and error checks have been done for you.

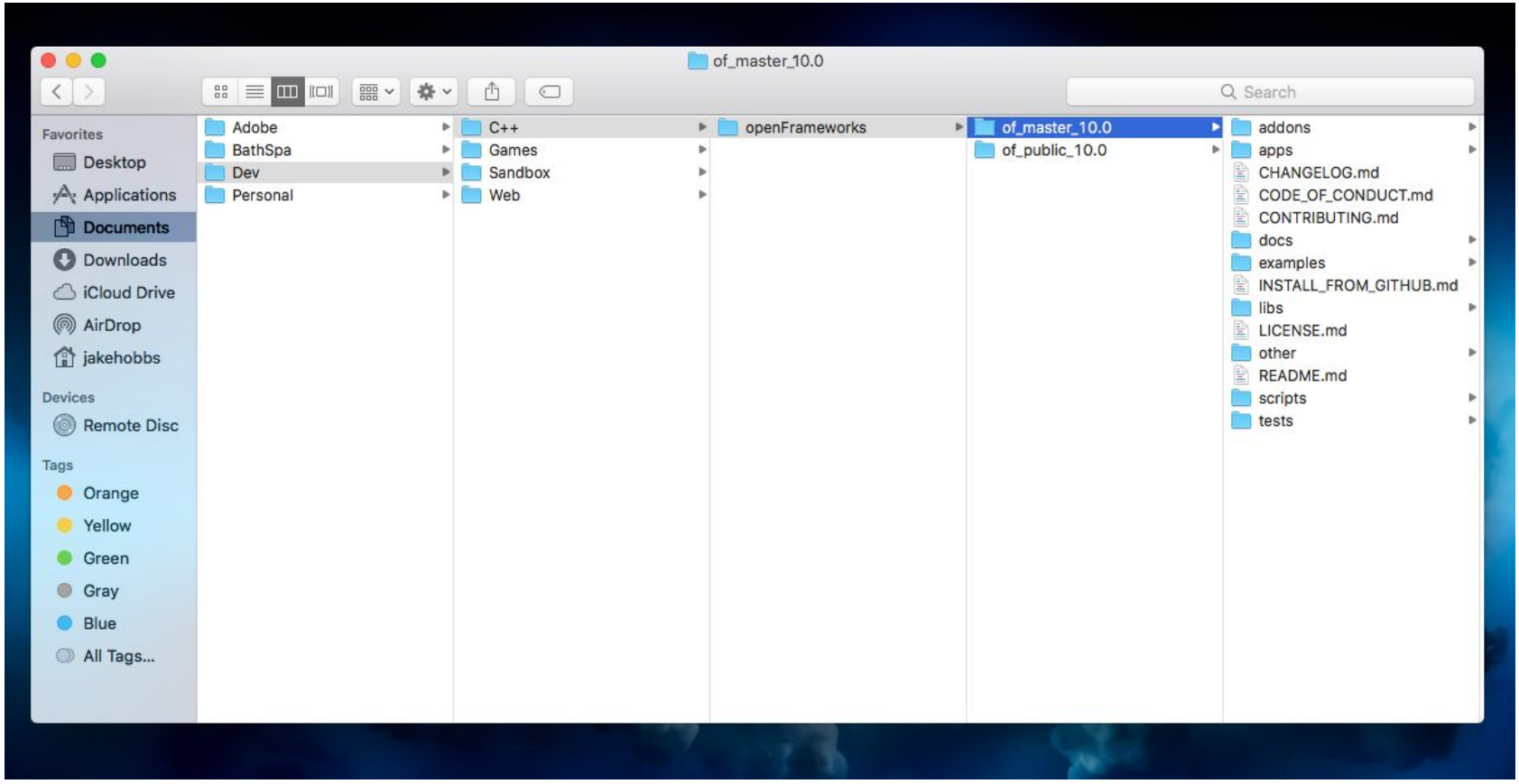
1. Download the master version of openFrameworks from the github page. You can do this by going to the following link: https://github.com/openframeworks/openFrameworks/tree/master From here click the *“Clone or download”* button and select *“Open in Desktop”.* (A browser pop-up may open asking if you’d like to open Github Desktop - click ok).



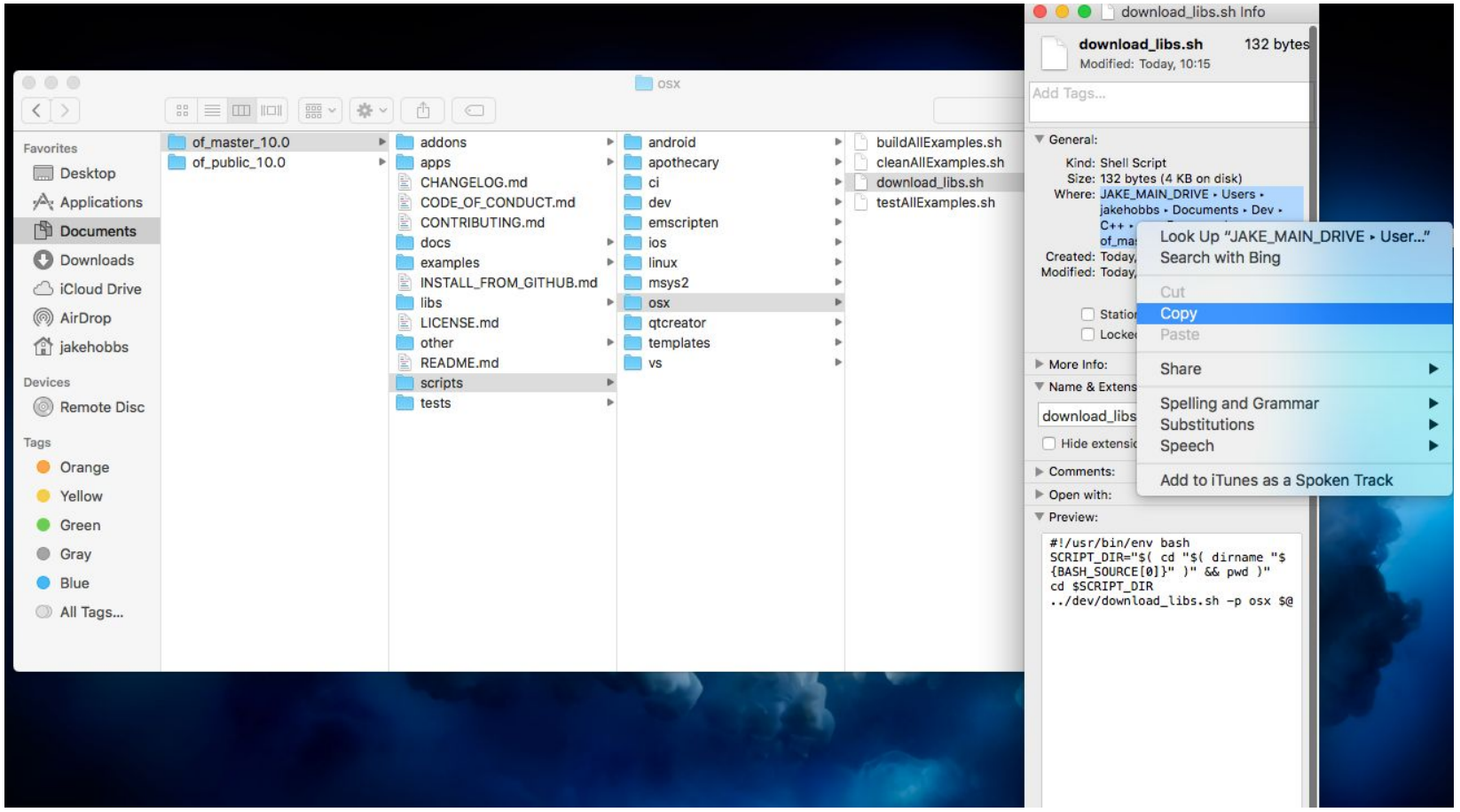
2. Github desktop will open and ask where you would like to clone the repository to. Select "*Choose...*" on Local Path and save it somewhere sensible. For example mine is saved in "*Documents → Dev → C++ → openFrameworks*". Once you've selected a folder click "*Clone*". Github desktop will now download openFrameworks to your machine, this may take a few minutes.



3. Once downloaded go to the folder where you saved to and rename the downloaded folder so you can keep track of different versions. By default it will be named openFrameworks, I like to rename mine so I can tell the difference between the public version (available here) and the master version from github (see image below)

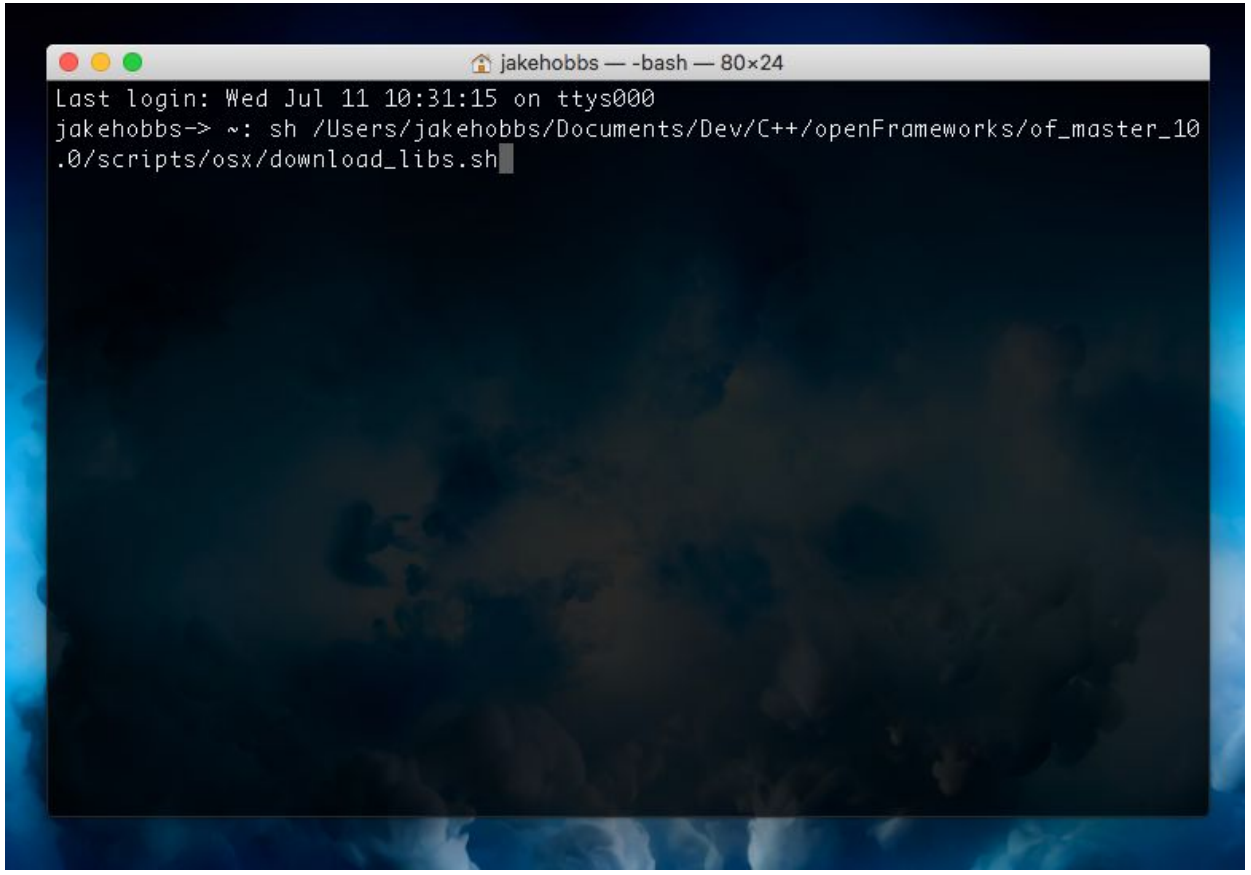


4. Now In this openFrameworks installation go to the following folder "*scripts → osx".* Right click and get info on the *"download_libs.sh"* file and copy the file path

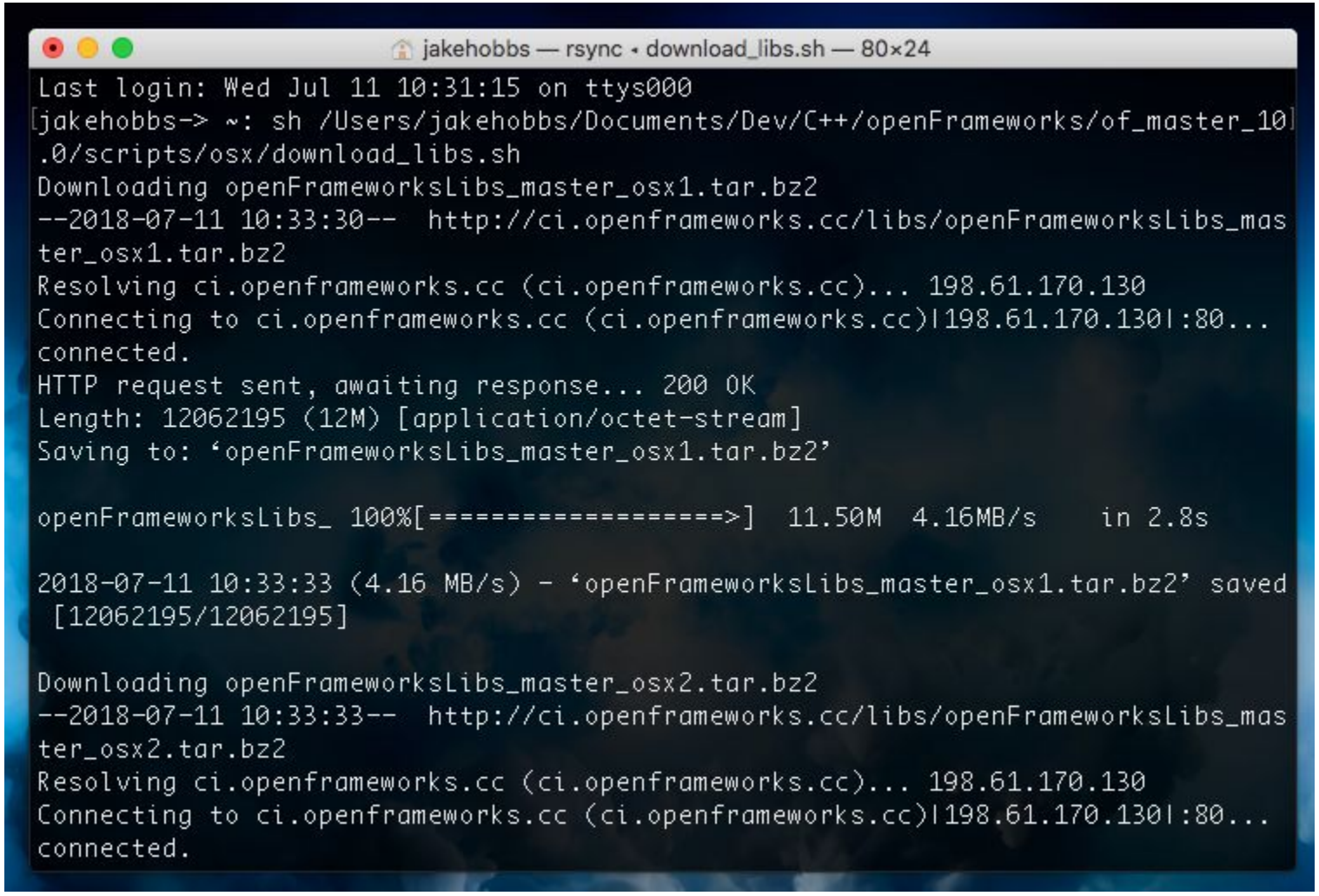


5. Open the Terminal program. This can usually be found in *Applications → Utilities → Terminal.* Once Terminal is open type ***sh*** followed by a space then paste the file path you copied from step 4. At the end of this file path ensure you also add the file name: **download_libs.sh**, then hit enter. For example what I would type would be something like:

/Users/jakehobbs/Documents/Dev/C++/openFrameworks/of_master_10.0/scripts/osx/download_libs.sh



6. This will download some libraries that openframeworks requires. The process may take a few moments depending on the speed of your internet connection. Once complete you may close Terminal.
    - *NOTICE: If you get a wget command not found message at this point see steps 7 - 8. Else skip to step 9.*


jakehobbs — rsync • download_libs.sh — 80×24
Last login: Wed Jul 11 10:31:15 on ttys000
[jakehobbs-> ~: sh /Users/jakehobbs/Documents/Dev/C++/openFrameworks/of_master_10
.0/scripts/osx/download_libs.sh
Downloading openFrameworksLibs_master_osx1.tar.bz2
--2018-07-11 10:33:30-- http://ci.openframeworks.cc/libs/openFrameworksLibs_mas
ter_osx1.tar.bz2
Resolving ci.openframeworks.cc (ci.openframeworks.cc)... 198.61.170.130
Connecting to ci.openframeworks.cc (ci.openframeworks.cc)|198.61.170.130|:80...
connected.
HTTP request sent, awaiting response... 200 OK
Length: 12062195 (12M) [application/octet-stream]
Saving to: ‘openFrameworksLibs_master_osx1.tar.bz2’
openFrameworksLibs_ 100%[===================>] 11.50M 4.16MB/s   in 2.8s
2018-07-11 10:33:33 (4.16 MB/s) - ‘openFrameworksLibs_master_osx1.tar.bz2’ saved
 [12062195/12062195]
Downloading openFrameworksLibs_master_osx2.tar.bz2
--2018-07-11 10:33:33-- http://ci.openframeworks.cc/libs/openFrameworksLibs_mas
ter_osx2.tar.bz2
Resolving ci.openframeworks.cc (ci.openframeworks.cc)... 198.61.170.130
Connecting to ci.openframeworks.cc (ci.openframeworks.cc)|198.61.170.130|:80...
connected.

7. If you got a wget command not found message in step 6 you will need to install wget tools to your mac. The easiest way to do this is with Homebrew, a handy tool that helps you quickly download different development packages on mac:

    - Paste the following command into terminal and hit enter:
      `usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"`

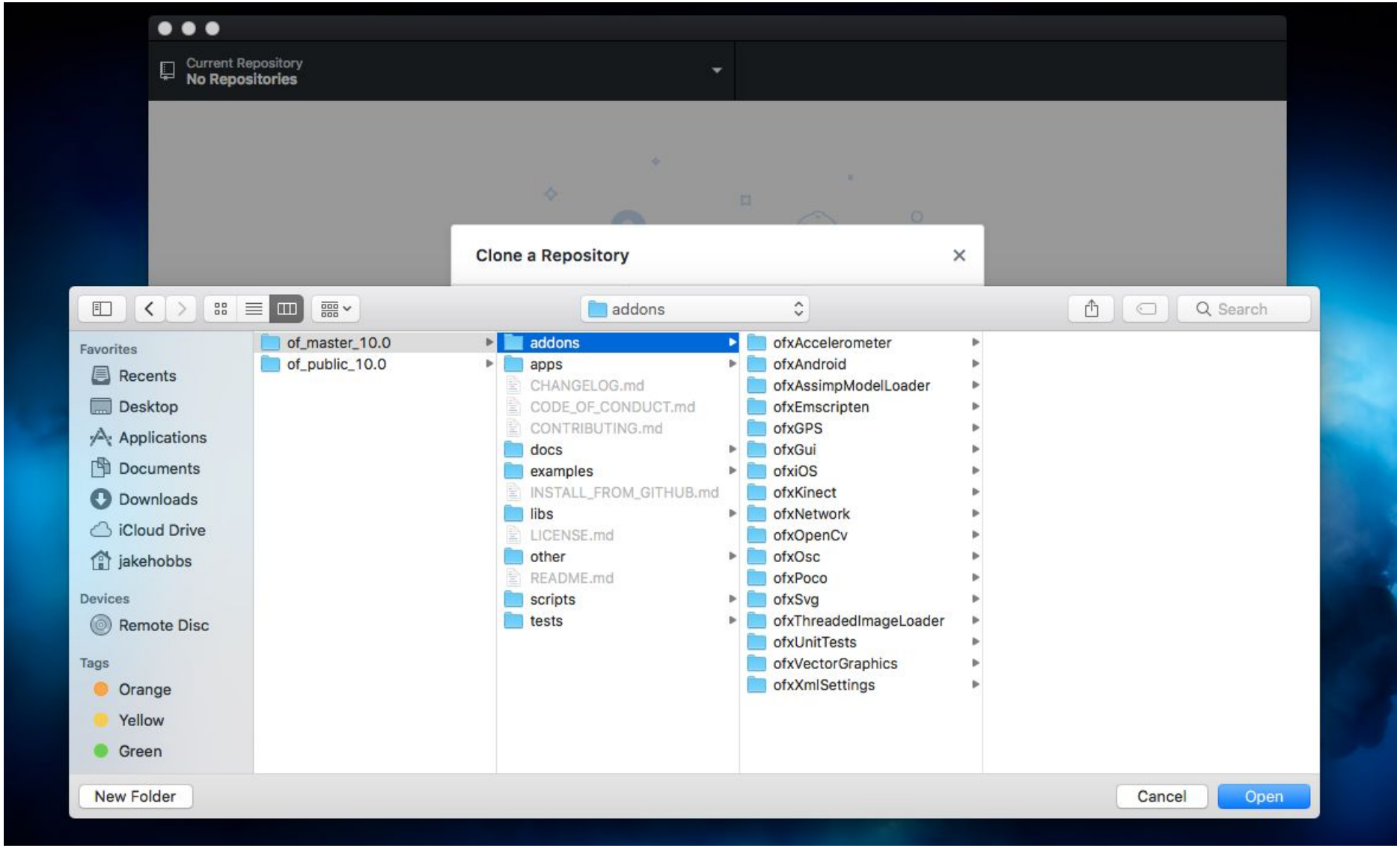
    - This will download homebrew to your computer. Once the process is complete you can use the following homebrew command in terminal to install the wget tools.
      `brew install wget`

8. Once wget is installed return to step 6 to download the required library files.

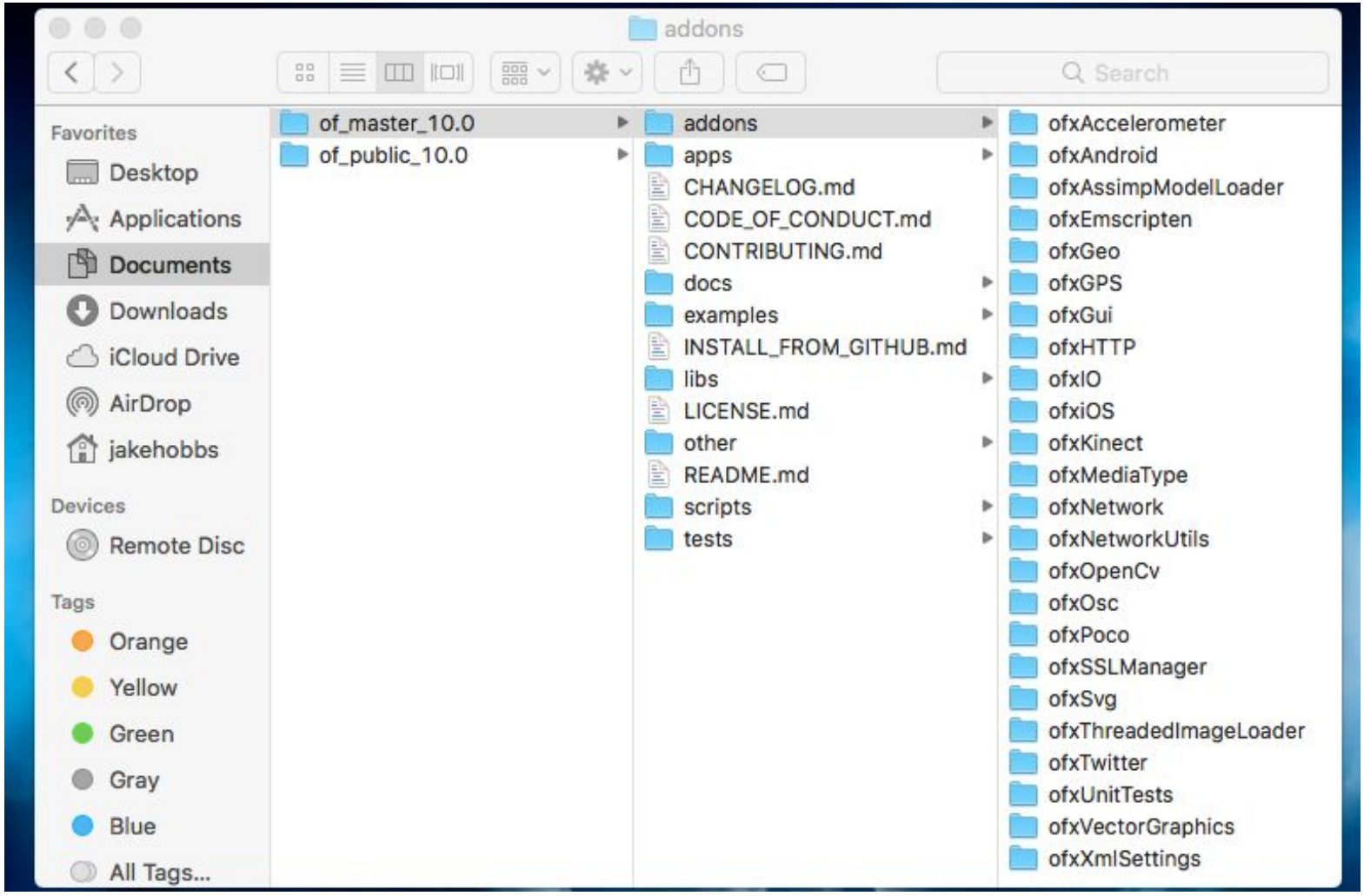
9. Now we need to download the addons required for the Data Driven Application. These are listed below:

    https://github.com/bakercp/ofxGeo
    https://github.com/bakercp/ofxHTTP
    https://github.com/bakercp/ofxIO
    https://github.com/bakercp/ofxNetworkUtils
    https://github.com/bakercp/ofxMediaType
    https://github.com/bakercp/ofxSSLManager
    https://github.com/bakercp/ofxTwitter

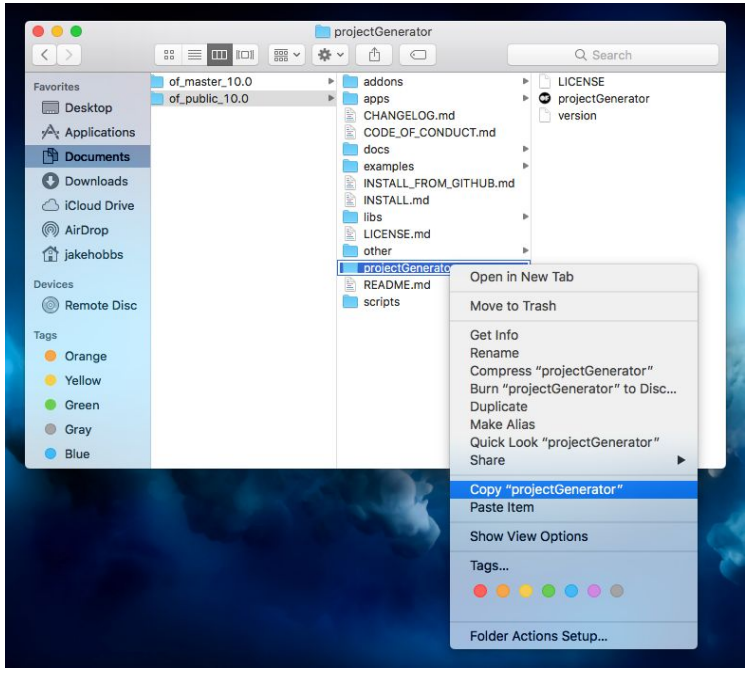
    Go to each of these links in turn and click the *"Clone or download"* button and select *"Open in Desktop"* (like in step 1). Once Github desktop has opened select *"Choose…"* on local path and navigate to the addons folder of your openFrameworks installation and click *"Open"*. Repeat this process for each of the addons listed above.

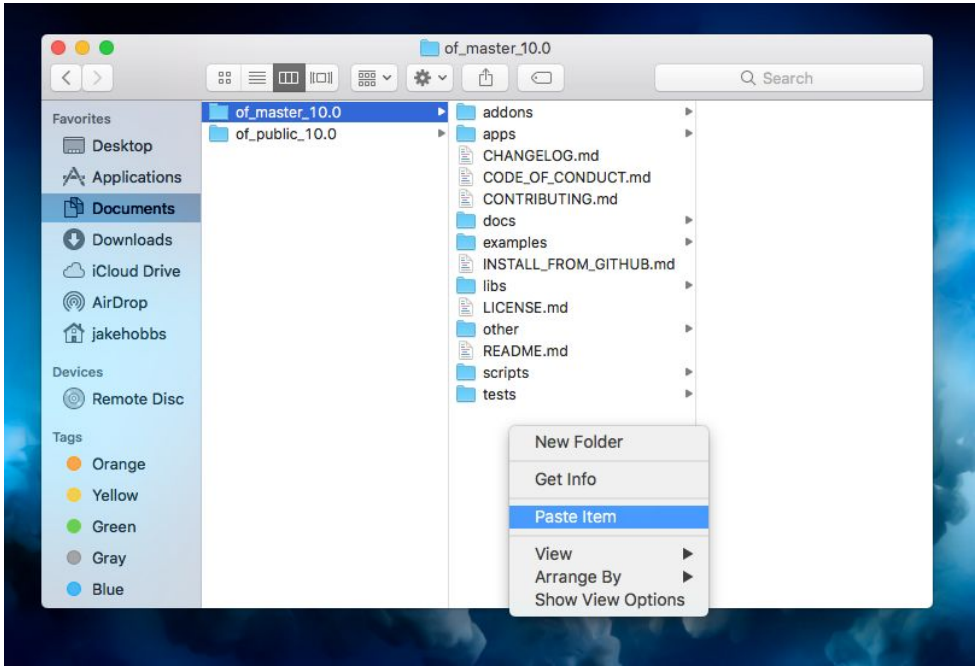

Current Repository
No Repositories
Clone a Repository
addons
Search
Favorites
Recents
Desktop
Applications
Documents
Downloads
iCloud Drive
jakehobbs
Devices
Remote Disc
Tags
Orange
Yellow
Green
of_master_10.0
of_public_10.0
addons
apps
CHANGELOG.md
CODE_OF_CONDUCT.md
CONTRIBUTING.md
docs
examples
INSTALL_FROM_GITHUB.md
libs
LICENSE.md
other
README.md
scripts
tests
ofxAccelerometer
ofxAndroid
ofxAssimpModelLoader
ofxEmscripten
ofxGPS
ofxGui
ofxiOS
ofxKinect
ofxNetwork
ofxOpenCv
ofxOsc
ofxPoco
ofxSvg
ofxThreadedImageLoader
ofxUnitTests
ofxVectorGraphics
ofxXmlSettings
New Folder
Cancel
Open

10. Your addons folder should now look something like this

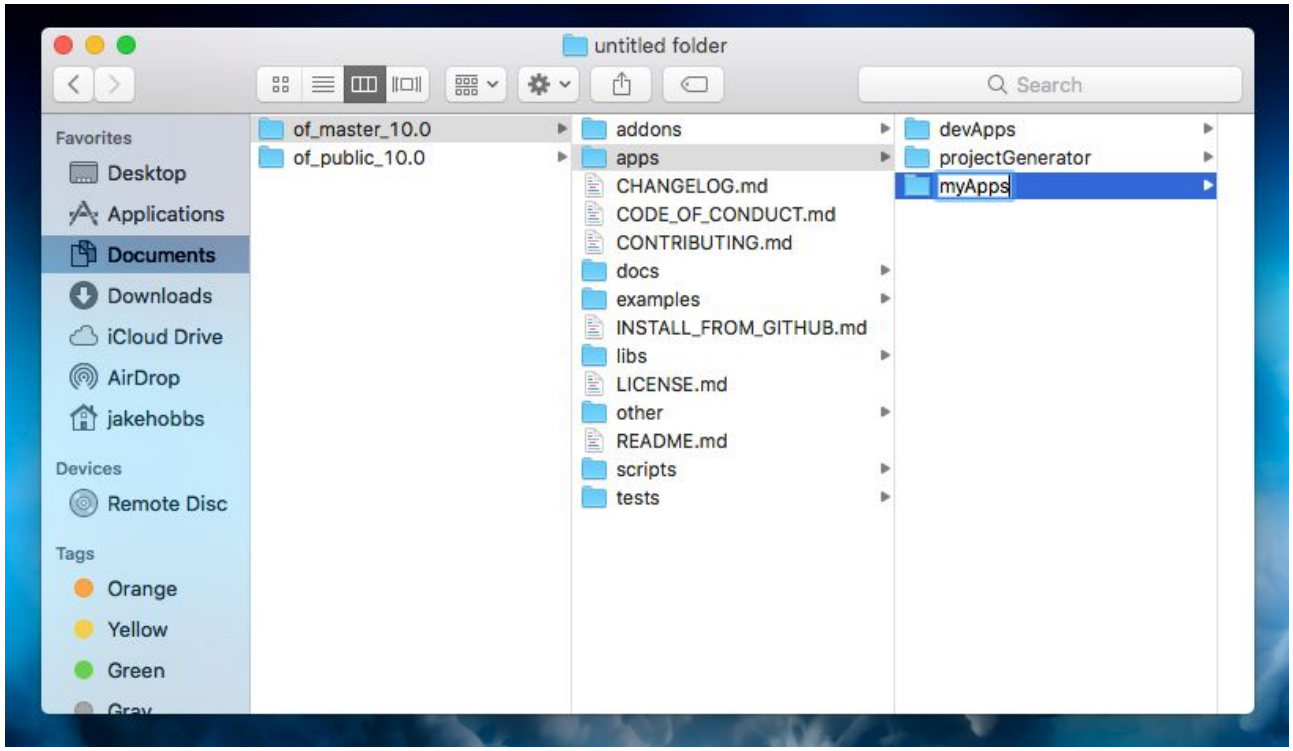


11. This master version of openFrameworks from github does not come with the project generator included. The easiest way to add the project generator is to copy it from the public version of openFrameworks into your master version. You should have the public version downloaded from previous weeks sessions, so go to this openFrameworks installation copy the project generator folder and paste it into the master installation. If you don't have the public version (available here), download it then copy the project generator.





12. Go to the “*apps*” folder of the openFrameworks installation right click and create a new folder called “*myApps*”



13. Your openFrameworks installation is now setup ready to begin building the Data Driven Application. For guidance on how to get the basic project setup from your assignment repository see the following guides:

    Generating Data Driven App Project (Option 2) - Xcode

    Creating Twitter App for Data Driven App

    At this point you can remove the openFrameworks and addon repositories cloned in the earlier steps from being listed in Github Desktop, as you no longer need to keep track of these. To do so click the Current Repository dropdown button, right click each listed repository you wish to remove, click remove and then click remove again on the confirmation popup window.