



CodeLab II (CCO5000-20)

Setting up openFrameworks for Data Driven App - Visual Studio

Creative Computing

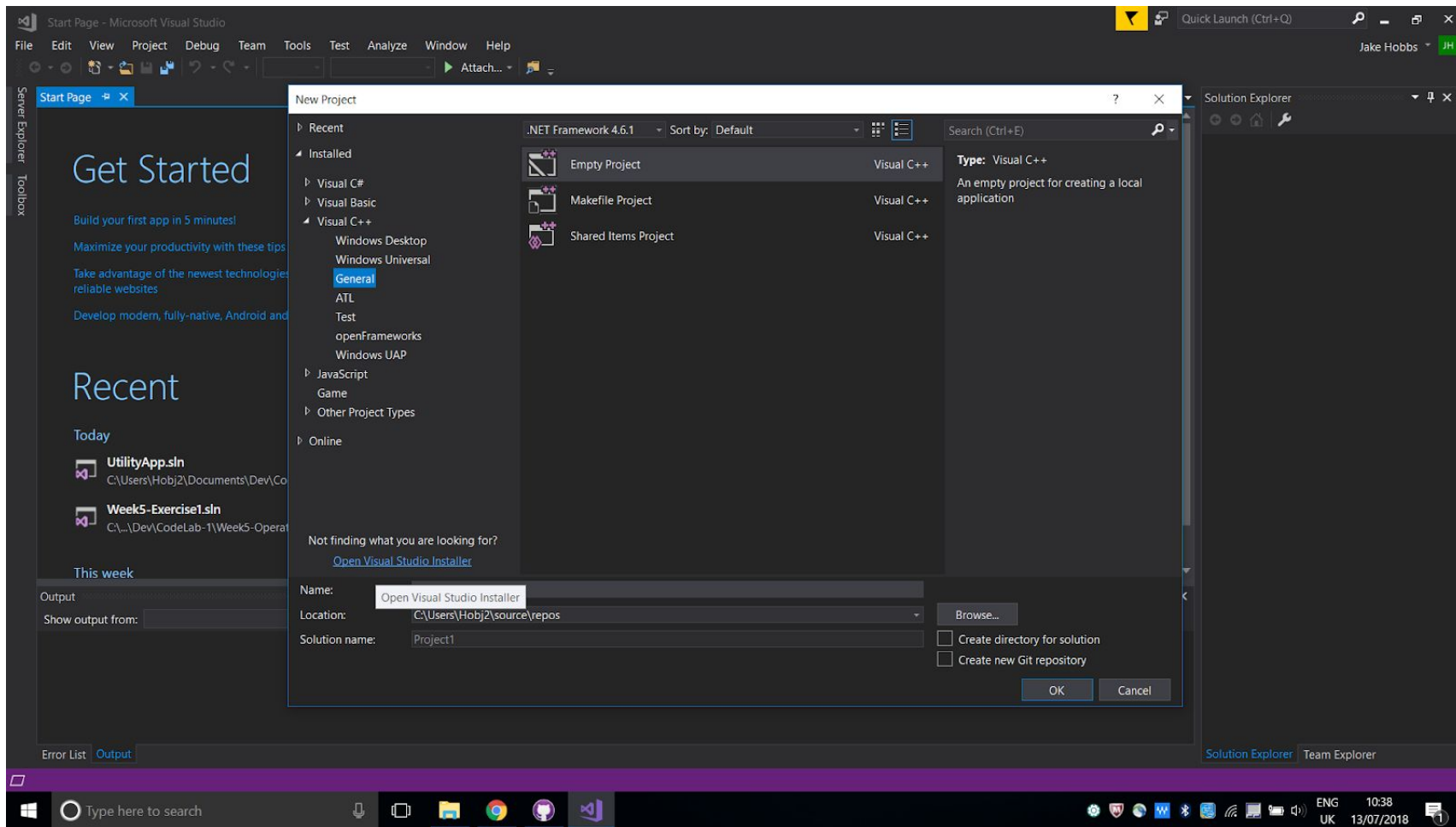
The School of Creative Industries

College of Liberal Arts, Bath Spa University

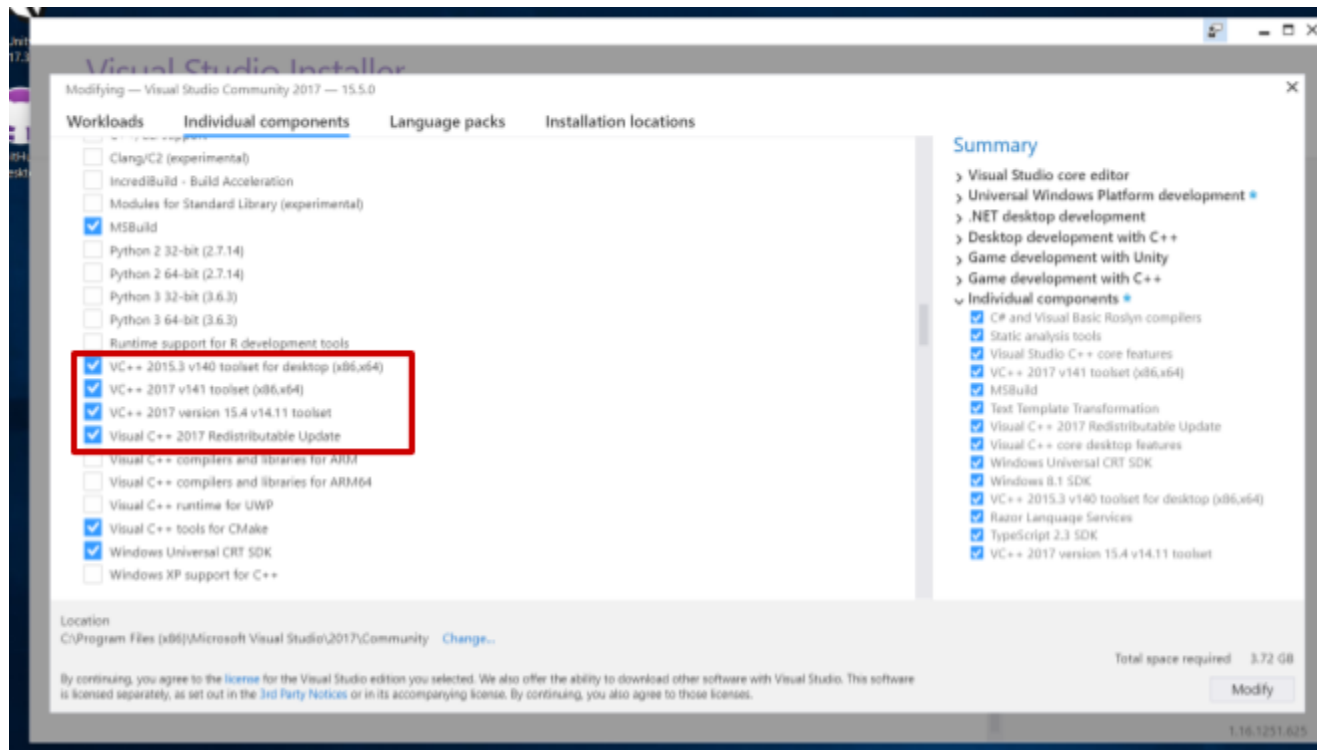
Pre-packaged versions of openFrameworks that have been tested with the twitter addon have been provided on minerva. The following guide provides an insight into the steps followed to put together these pre-packaged versions.

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.

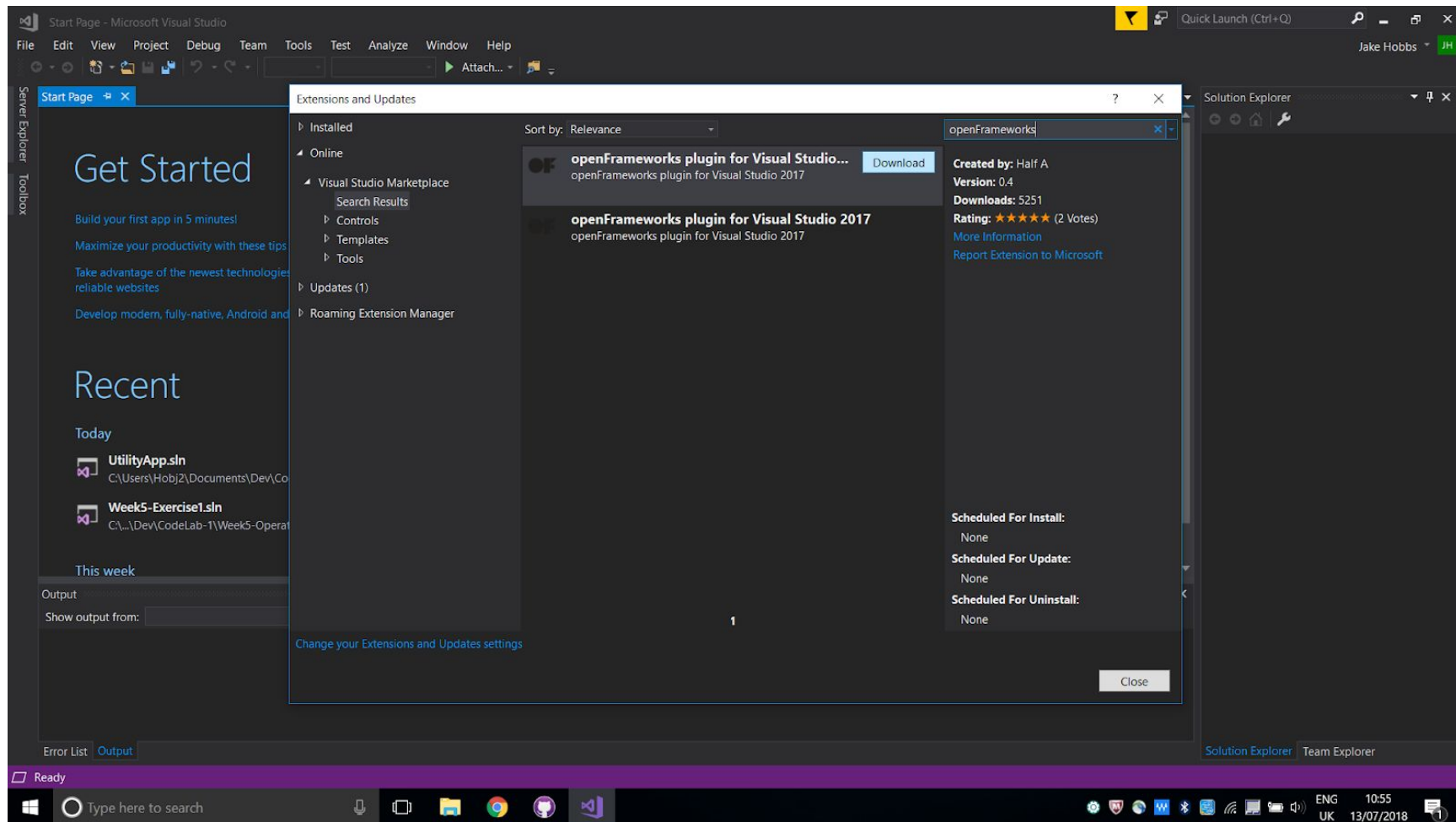
1. Open visual studio, go to “File → New Project” and then click “Open Visual Studio Installer”.



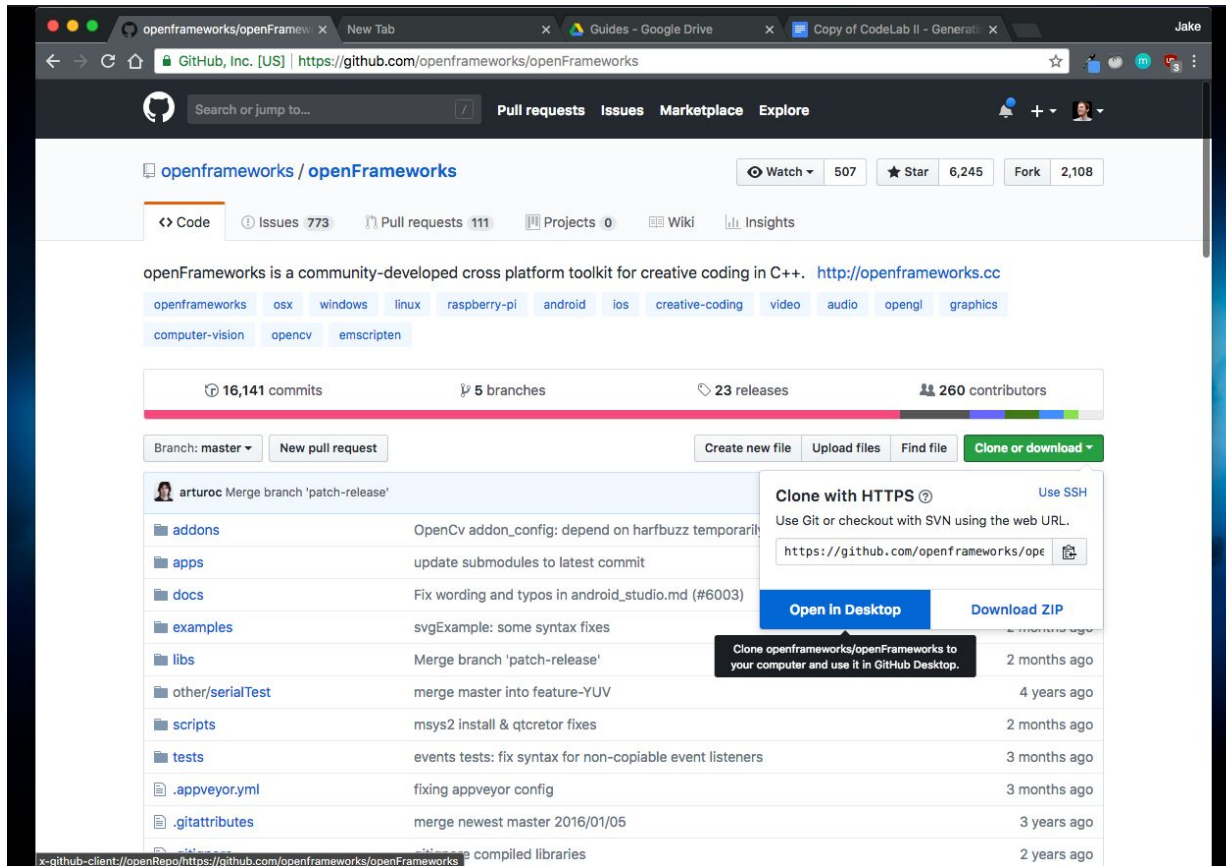
2. Once the installer is open click “*Individual Components*” and make sure common tools 2017 checkbox is selected and click “*Modify*”. This may take a while depending on size of download.



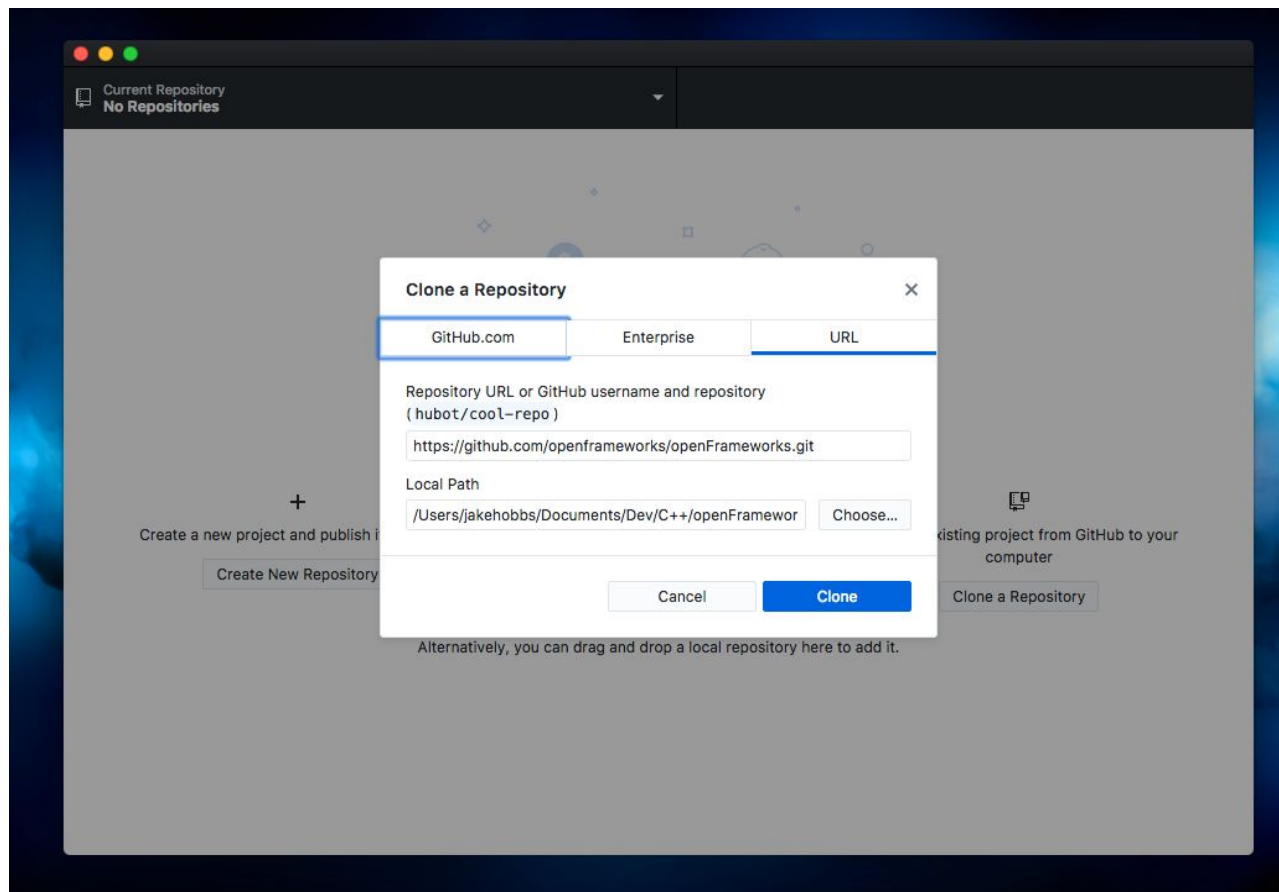
3. Open visual studio go to “Tools → Extensions & Updates” and search for the openFrameworks 2017 plugin. Click “Download” then close visual studio for plugin to install fully.



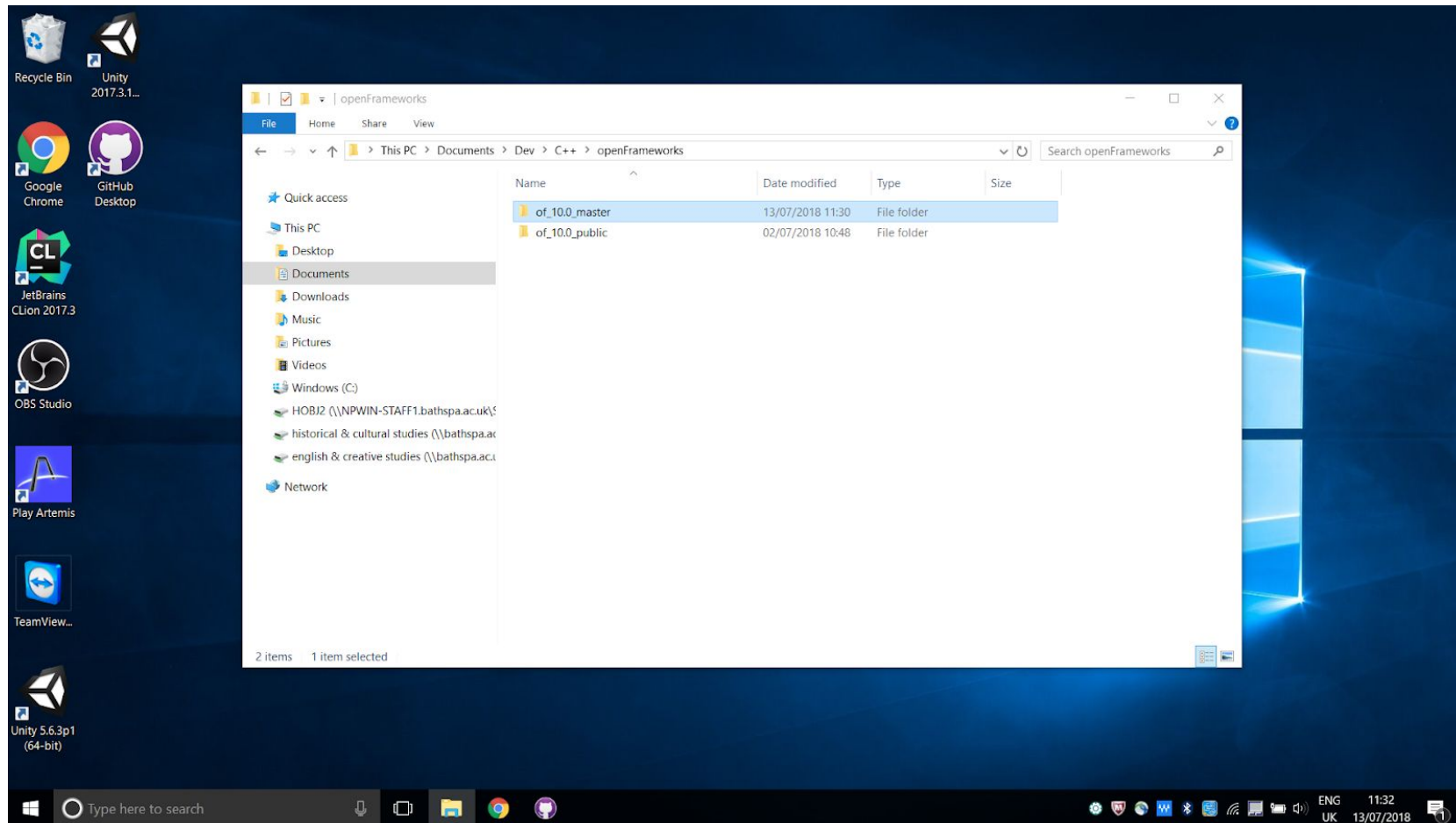
4. Download the master version of openFrameworks from the github page. You can do this by going to the following link: <https://github.com/openframeworks/openFrameworks/tree/master> From here click the “Clone or download” button and select “Open in Desktop”. (A browser pop-up may open asking if you’d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



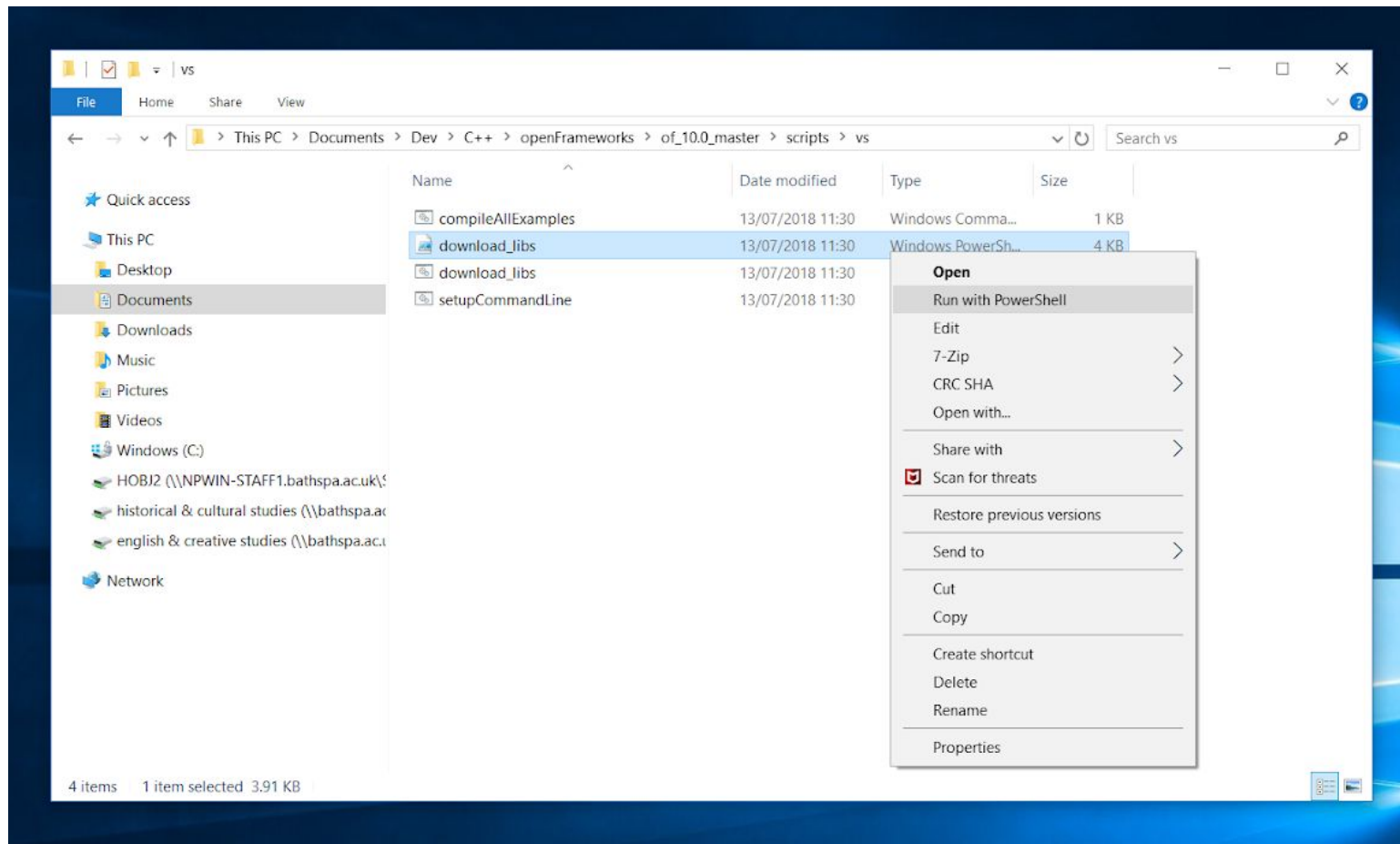
5. Github desktop will open and ask where you would like to clone the repository to. Select “Choose...” on Local Path and save it somewhere sensible. For example mine is saved in *Documents* → *Dev* → *C++* → *openFrameworks*. Once you’ve selected a folder click “Clone”. Github desktop will now download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



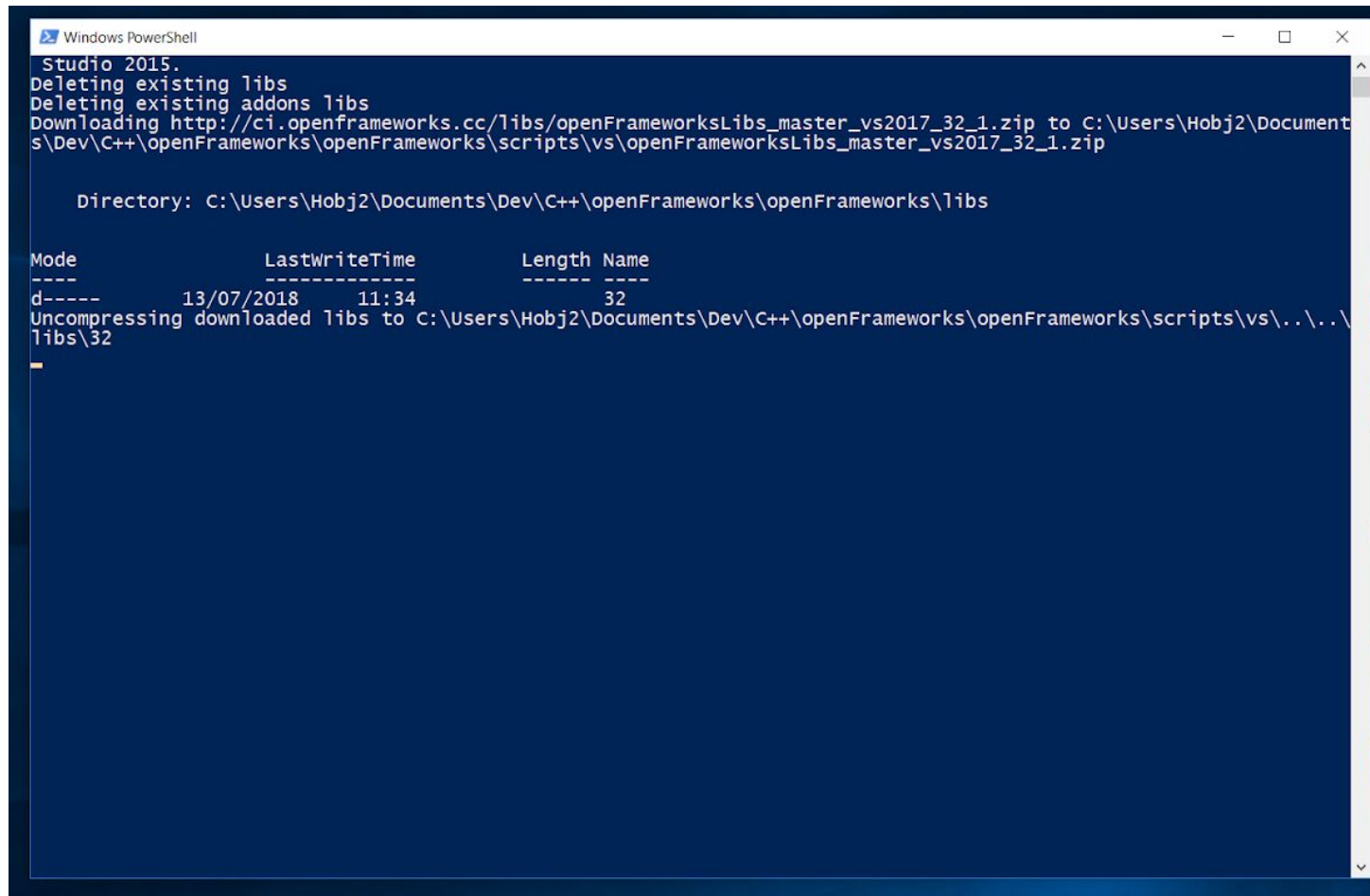
6. Once downloaded go to the folder where you saved to and rename the downloaded folder so you can keep track of different versions. By default it will be named openFrameworks, I like to rename mine so I can tell the difference between the public version ([available here](#)) and the master version from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



7. In this openFrameworks installation go to the following folder “*scripts* → *vs*”. Right click the “*download_libs*” powershell file and select “*Run in Windows Powershell*”.



8. This will download some required libraries, it may take a while, be patient. Once complete powershell will automatically close.



```
Windows PowerShell
Studio 2015.
Deleting existing libs
Deleting existing addons libs
Downloading http://ci.openframeworks.cc/libs/openFrameworksLibs_master_vs2017_32_1.zip to C:\Users\Hobj2\Documents\Dev\C++\openFrameworks\openFrameworks\scripts\vs\openFrameworksLibs_master_vs2017_32_1.zip

Directory: C:\Users\Hobj2\Documents\Dev\C++\openFrameworks\openFrameworks\libs

Mode                LastWriteTime         Length Name
----                -
d-----          13/07/2018    11:34             32
Uncompressing downloaded libs to C:\Users\Hobj2\Documents\Dev\C++\openFrameworks\openFrameworks\scripts\vs\..\..\libs\32
```

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>

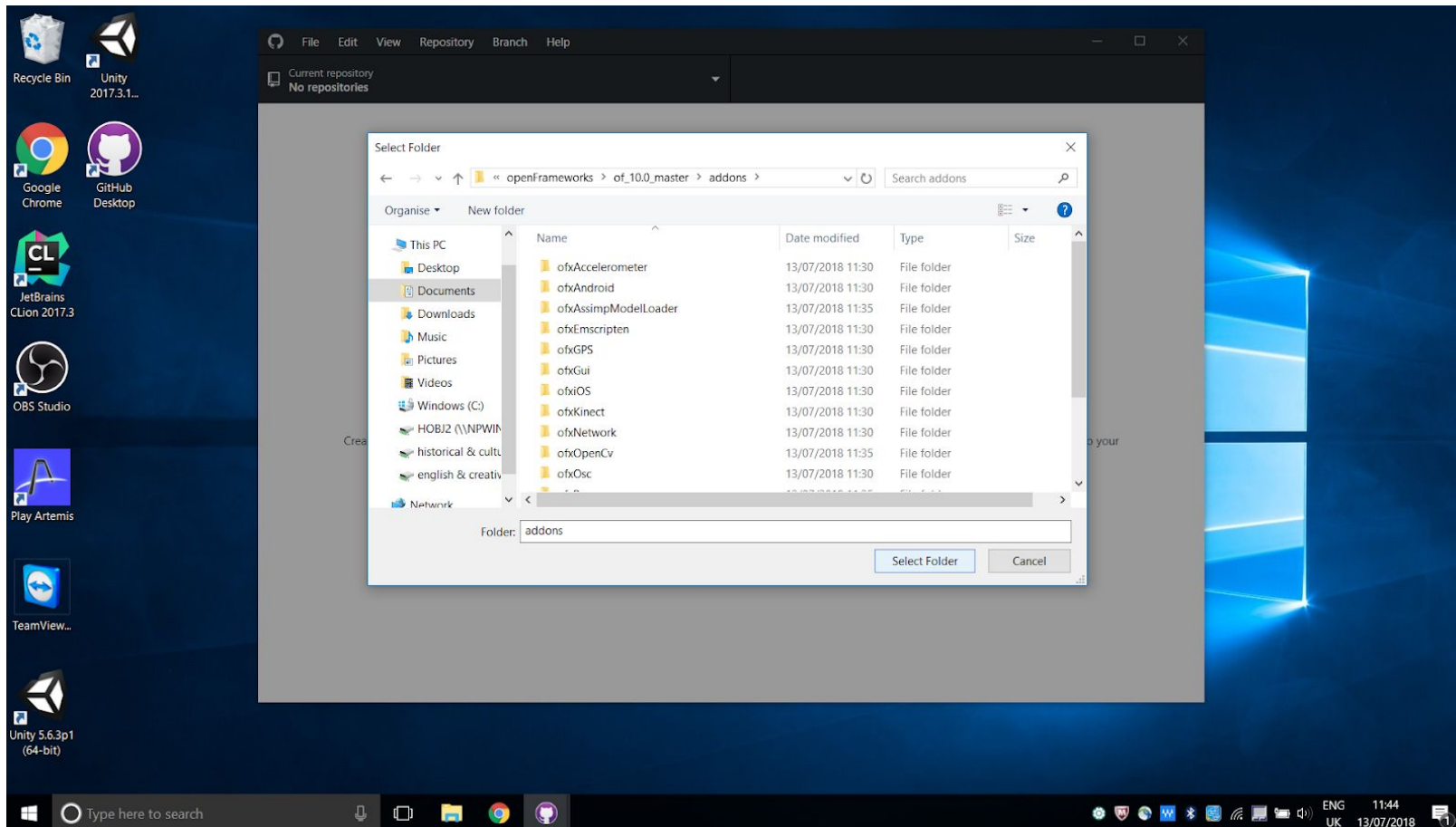
<https://github.com/bakercp/ofxNetworkUtils>

<https://github.com/bakercp/ofxMediaType>

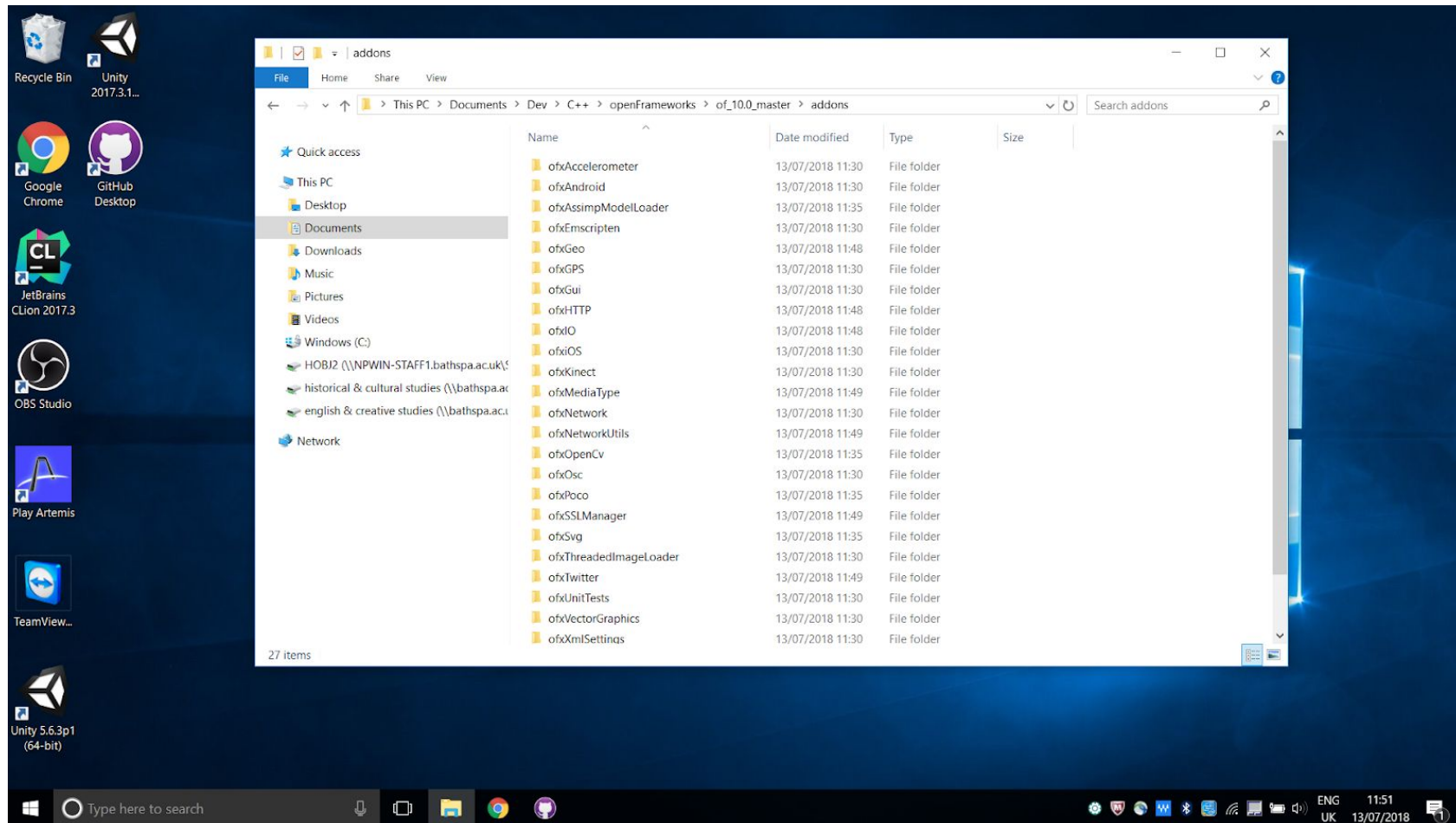
<https://github.com/bakercp/ofxSSLManager>

<https://github.com/bakercp/ofxTwitter>

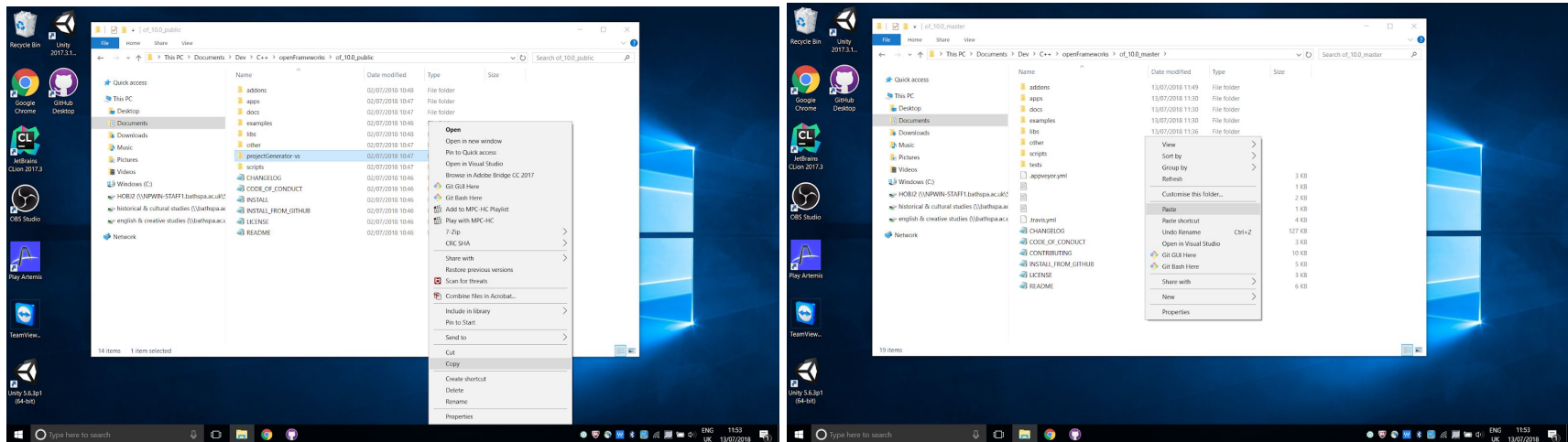
Go to each of these links in turn and click the “*Clone or download*” button and select “*Open in Desktop*” (like in step 1). Once Github desktop has opened select “*Choose...*” on local path and navigate to the addons folder of your openFrameworks installation and click “*Open*”. Repeat this process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



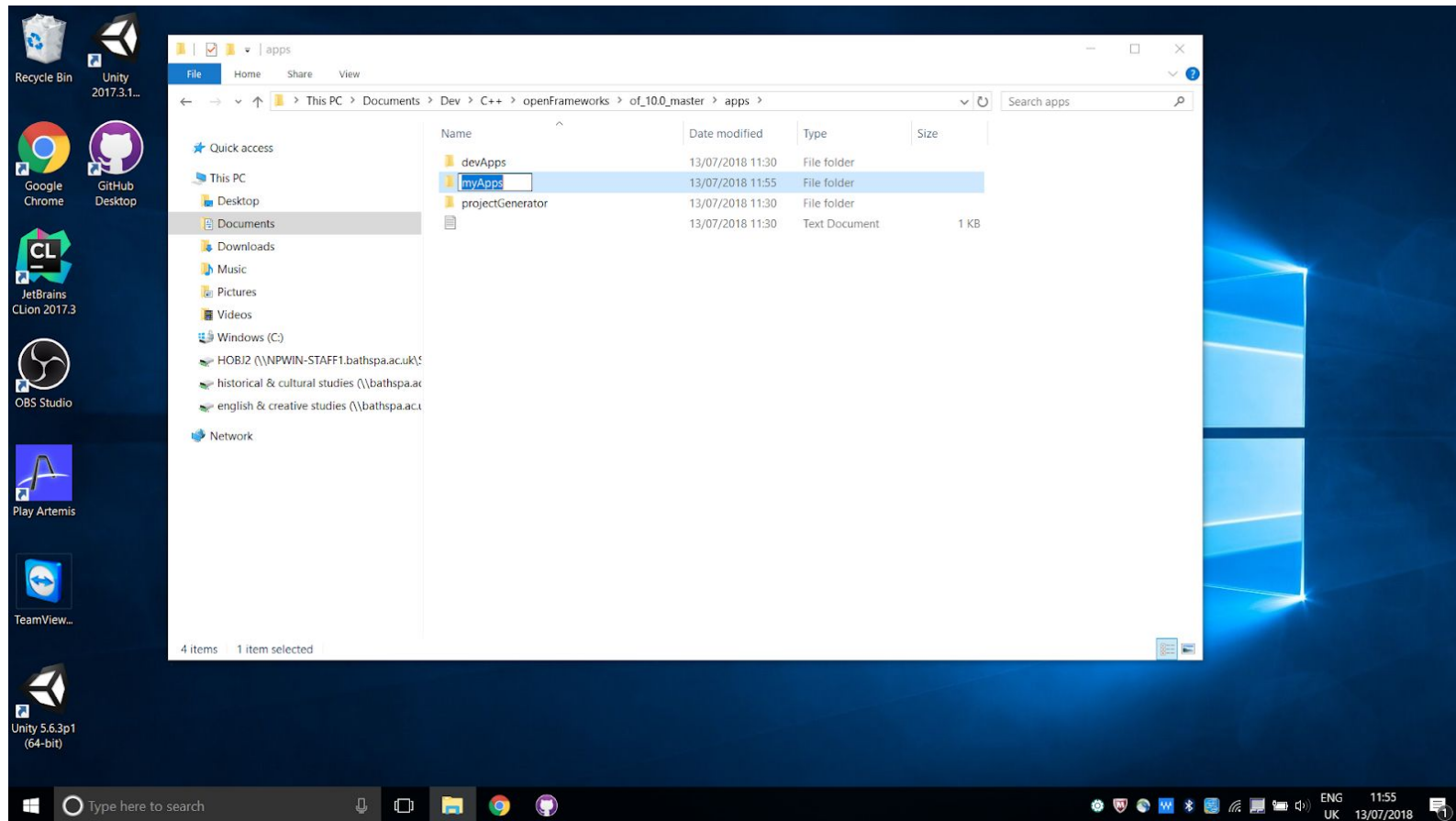
10. Your addons folder should now look something like this



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 your 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) - Visual Studio

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.