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Virtual Box IMAGE information.

Download the “Windows10_Trail90.zip” zip file given in the location – “https://drive.google.com/folderview?id=0B7Qw15PElTF2Z1FybDFvWW5WUzQ&usp=sharing”

Extract the zip file to get the Virtual box image file. Double click on the **Windows10_Trail_64.vbox**

Virtual Box Version: 5.0.14 (Created)

Operating System Running: Windows 10 Enterprise 64 bit version. Trail Period 90 days.

Logging in User Name: GeekO

Password for logging in: SCORE_GeekO

This application needs Internet. Internet is required to fetch tweets.

As this is running a 64 bit Operating System, your hardware should have enabled Intel Virtualization. These links might help in this regard –

http://www.howtogeek.com/213795/how-to-enable-intel-vt-x-in-your-computers-bios-or-uefi-firmware/

https://docs.fedoraproject.org/en-US/Fedora/13/html/Virtualization_Guide/sect-Virtualization-Troubleshooting-Enabling_Intel_VT_and_AMD_V_virtualization_hardware_extensions_in_BIOS.html

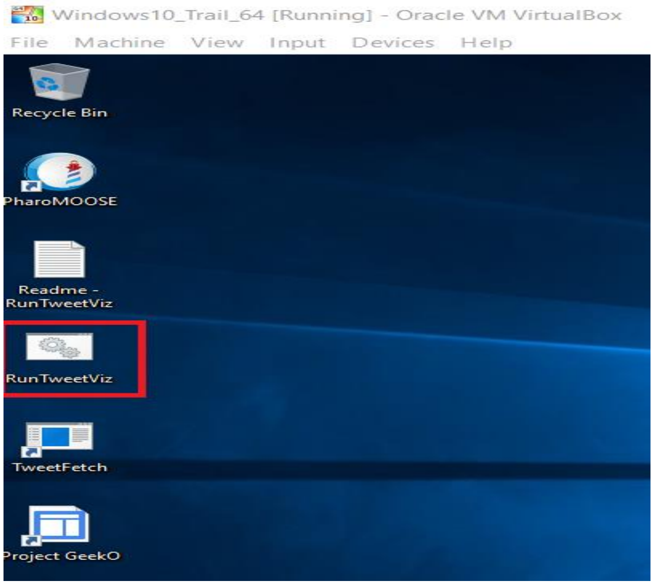
https://www.youtube.com/watch?v=-Wa7TGjmn5M

Folder Structure inside Google Drive

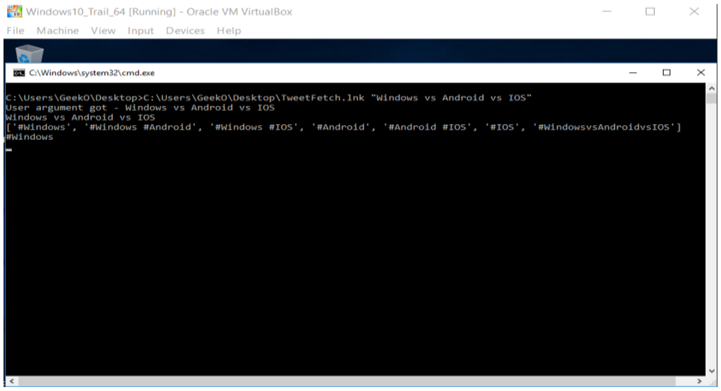
1. Readme file - Readme-AgileTweetViz-GeekO.pdf
2. Virtual Box image
3. Documentation – All the documentation related files. [This is also present inside the machine]
4. AgileTweetViz-GeekOh : This is the virtual visual management board of the project – Taiga
5. GitHub – AgileTweetViz : This is the Github source control of the project
6. Project GeekO : This is the Google Site for maintaining the project.

Fast Execution of AgileTweetViz:

1. In the Desktop, Double click on the “RunTweetViz” bat file.
   It will take by default “Windows vs Android vs IOS” as user input. It will generate hashtags related to that input and fetches tweets from the twitter.

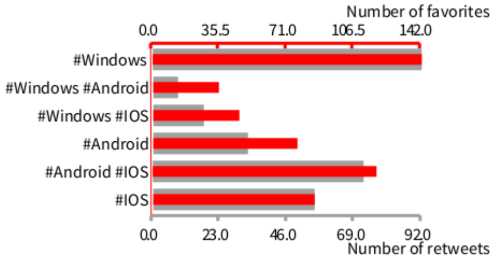

Windows10_Trail_64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
PharoMOOSE
Readme - RunTweetViz
RunTweetViz
TweetFetch
Project GeekO

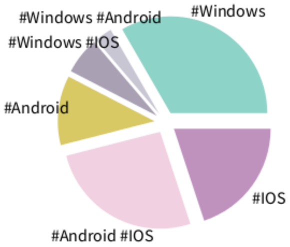
2. After fetching tweets, it will open the Pharo virtual image, where we can generate different visualizations.


Windows10_Trail_64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
C:\Windows\system32\cmd.exe

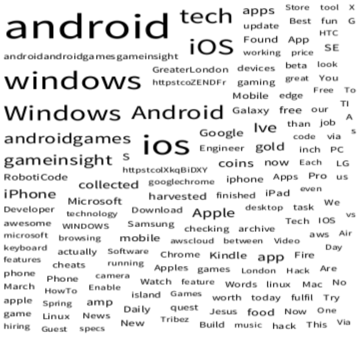
```
C:\Users\GeekO\Desktop>C:\Users\GeekO\Desktop\TweetFetch.lnk "Windows vs Android vs IOS"
User argument got - Windows vs Android vs IOS
Windows vs Android vs IOS
['#Windows', '#Windows #Android', '#Windows #IOS', '#Android', '#Android #IOS', '#IOS', '#WindowsvsAndroidvsIOS']
#Windows
```

3. Pharo is saved with different playgrounds for different types of visualizations.
   a. Visualize Graphs – This will generate the visualization which will show the popularity of hashtags in pie and bar graphs.

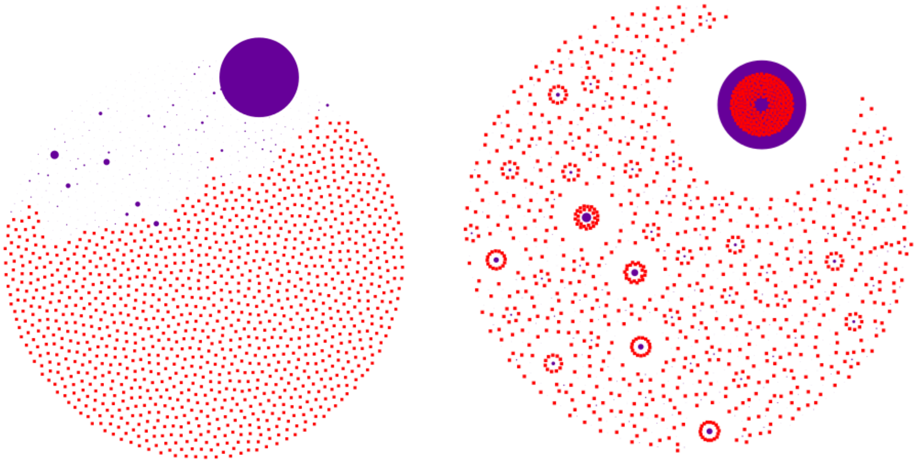




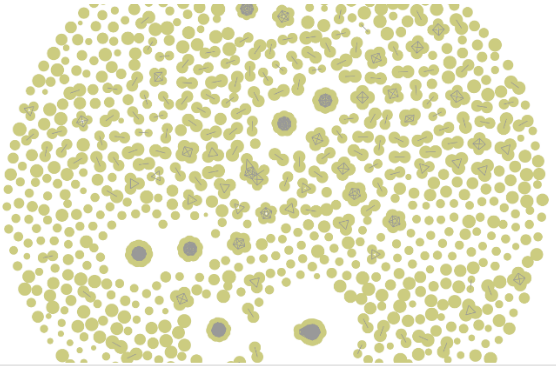
   b. Visualize Words – This will generate a word map of all words presents in tweets which are analyzed.



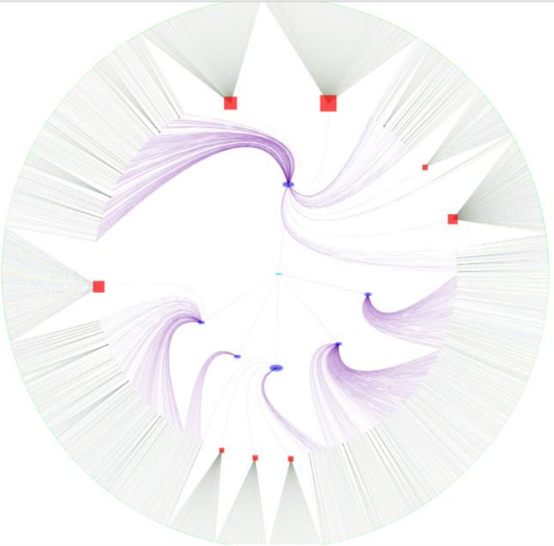
   c. Visualize User – This will generate visualization for twitter user and their tweets



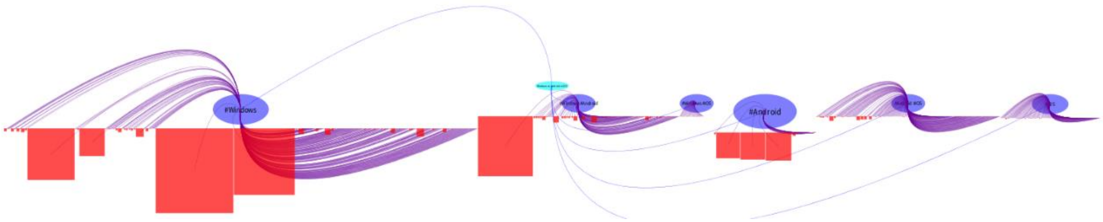
d. Visualize Tweet Message – This will group all the similar tweets together which are having similar tweet texts.



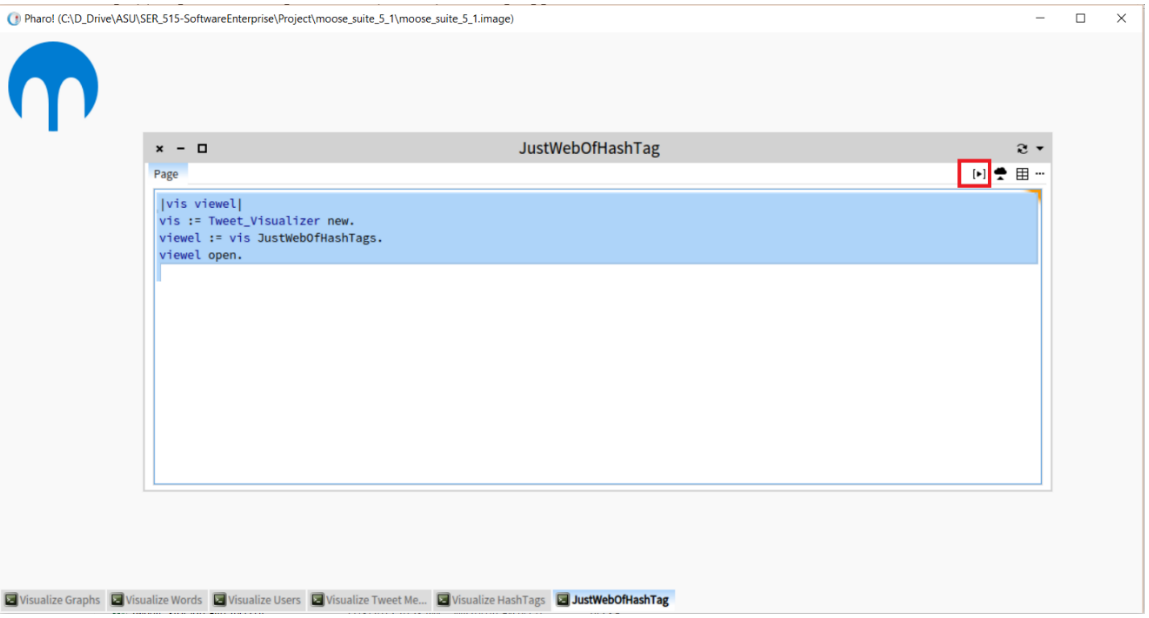
e. Visualize HashTags – This visualization gives the relationship between Hashtags and tweets. (you may have to zoom out to get the visualization)



f. JustWebOfHashTag – This visualization gives the tree relationship of the hashtags which was generated from user given input and the tweets generated.



4. Select the visualization which needs to be executed. This will open the window containing the code to run the visualization. You can play the visualization by clicking play icon. Sometimes you may have to resize the window of visualization (can double click on the title bar or click on box) window pane to find the “play” icon.



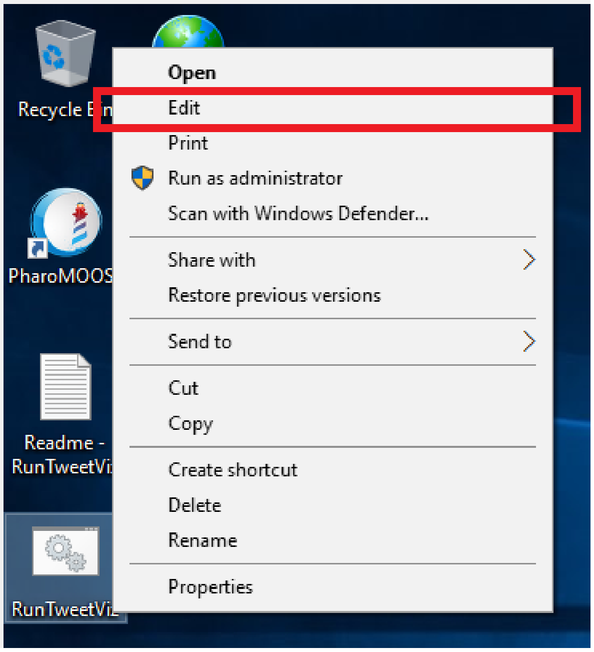
```
|vis viewel|
vis := Tweet_Visualizer new.
viewel := vis JustWebOfHashTags.
viewel open.
```

5. After viewing the visualization, close the Pharo. For the popup “Quit Pharo without saving” select option Yes.

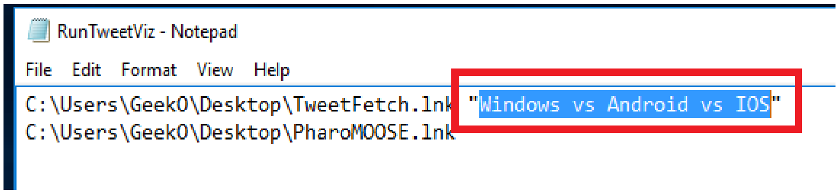
Custom User Input for TweetFetch

To give a different user input rather than default “Windows vs Android vs IOS”, follow the given steps.

1. On the desktop, right click on RunTweetViz. Select Edit option.



2. In the first line, replace ”Windows vs Android vs IOS” with your own text like “Windows vs MAC vs Linux”



```
C:\Users\Geek0\Desktop\TweetFetch.lnk "Windows vs Android vs IOS"
C:\Users\Geek0\Desktop\PharoMOOSE.lnk
```

3. Save the File. Double click the RunTweetViz bat file, it will use new input given by the user.

Executing Just TweetFetch

To just fetch/download tweets based on our output, use TweetFetch on desktop.

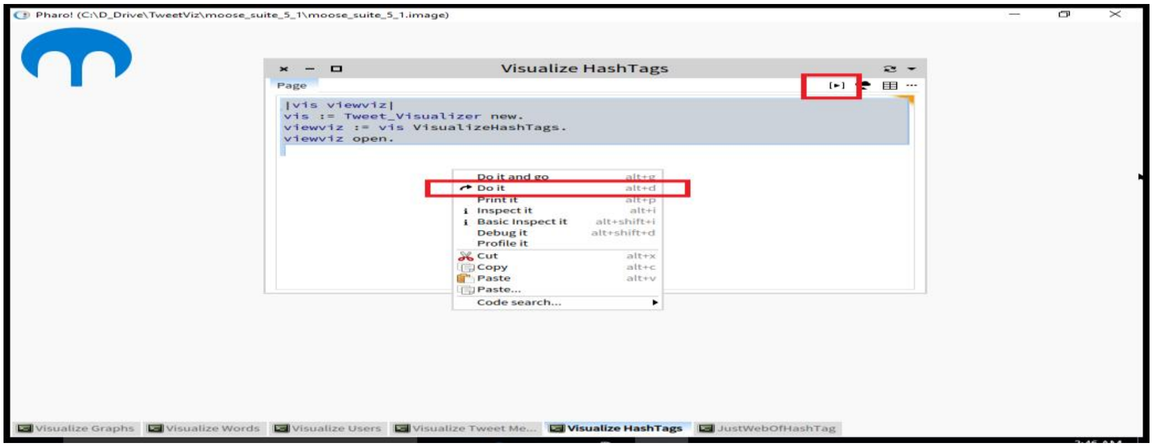
1. Open the command prompt "cmd.exe" either going to start or using run command. [It is pinned to Task bar]
2. Drag TweetFetch icon and drop it to Command prompt.
3. After TweetFetch.lnk, give input string like "Sundevils vs Wildcats"
4. This will download the tweets and store it in csv file.

Playing with Pharo

1. How to play in playground? Two ways

   1) Click on the play icon on the playground

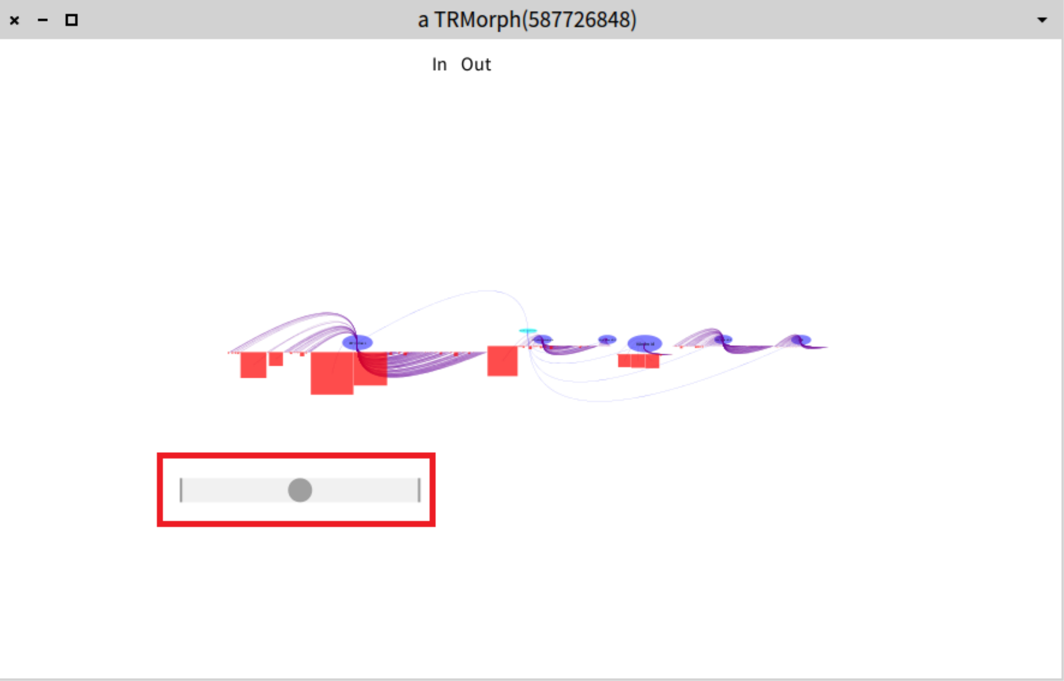
   2) Right click on the playground. It will open a context menu. In that select "Do it".



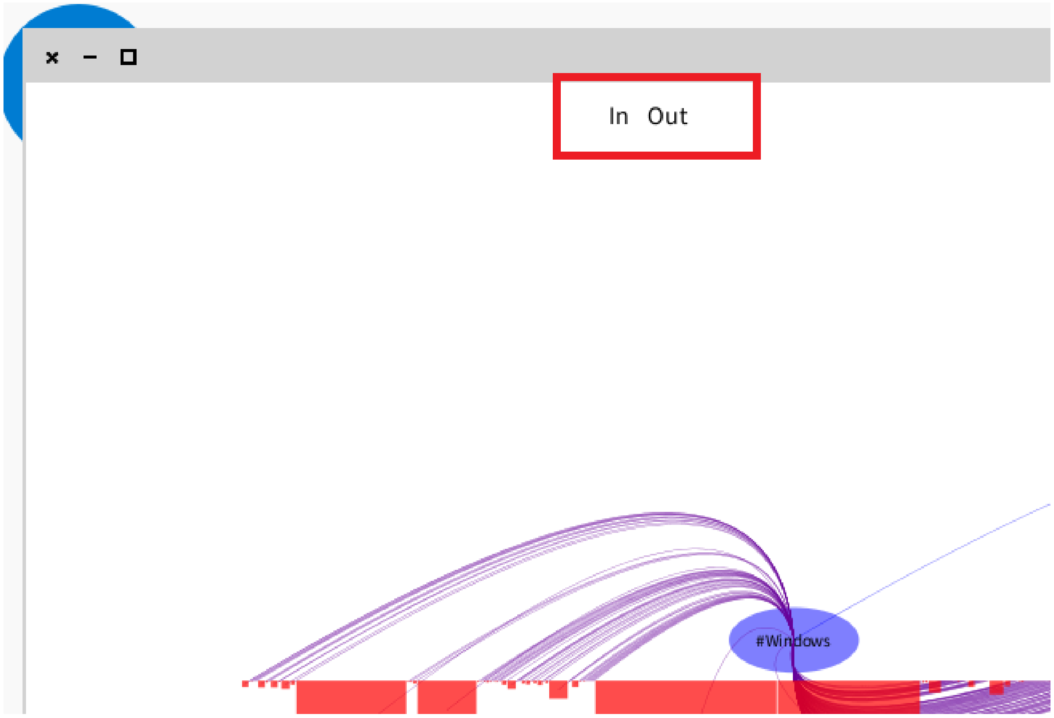
Pharo! (C:\D_Drive\TweetViz\moose_suite_5_1\moose_suite_5_1.image)

```
|vis viewviz|
vis := Tweet_Visualizer new.
viewviz := vis VisualizeHashTags.
viewviz open.
```

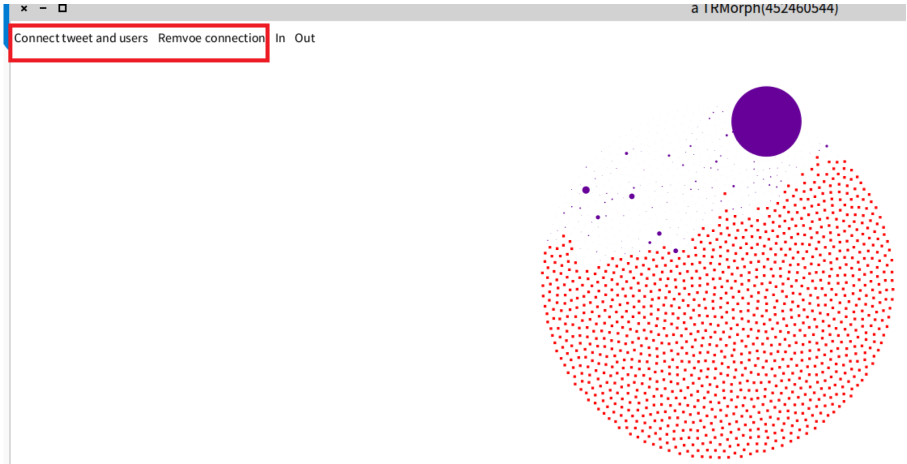
2. Horizontal Scroll bars in visualizations: JustWebOfHashTag, VisualizeHashTags. As shown in the figure, if moving circle in the highlighted section to left or right, visualization can be scrolled to left or right.



3. Zoom In and Out in visualizations: By clicking on "In" or "Out" visualizations will be zoomed in or zoomed out respectively. This feature is available in visualizations – JustWebOfHashTag, Visualize HashTags, Visualize Graphs, Visualize Users



4. Connect user and Tweets, Remove connection. “Connect tweet and users” will join tweets with its users. Clicking on “Remvoe connection” will disconnect the users and their tweets.



TweetViz Configuration File

Applications configuration file can be found in location C:\D_Drive\TweetViz\dist\TweetViz_ConfigFile.ini

It has 2 main parts – TweetVizDB and TweetVizCommon.

TweetVizDB as information about connecting to Database of TweetViz.

TweetVizCommon has information about different general configuration parameters.

FileMemory – Location where TweetFetch module stores the CSV file containing the tweets downloaded from twitter. From this location MOOSE/PHARO will pick it for further processing.

NumberOfTweetsToFetch – This will specify number of tweets that needs to be downloaded per hashtag.

Log_Level - This is for developers to debug the issue. It has different levels of log like error, warn, debug and all.

File_Mode – This will indicate whether tweets needs to be stored in database or not. If 0 it will store both in CSV and Database. If 1 then it will only store in CSV file.

Type_Of_Tweet – This tells twitter what type of tweets to be fetched – mixed, recent, popular

Important Locations:

Taiga Project website: https://tree.taiga.io/project/ser515asu-agiletweetviz-geekoh/

Google Project site: https://sites.google.com/a/asu.edu/project-geeko/

Github Source location: https://github.com/ser515asu/AgileTweetViz-GeekOh

All Project related Files location: **C:\D_Drive**

Executables**: C:\D_Drive\TweetViz**

Location of CSV in which tweets will be stored: **C:\D_Drive\TweetViz\moose_suite_5_1\Tweets_Storage_File.csv**

Location of executables related to TweetFetch: **C:\D_Drive\TweetViz\dist**

Source Code: **C:\D_Drive\Source_Control\AgileTweetViz-GeekOh\SourceCode**

Documents related to Project: **C:\D_Drive\Source_Control\AgileTweetViz-GeekOh\Documentation**

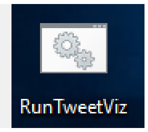
Documents related to verification and Validation: **C:\D_Drive\Source_Control\AgileTweetViz-GeekOh\Documentation\Testing**

Documents related to design: **C:\D_Drive\Source_Control\AgileTweetViz-GeekOh\Documentation\Design_Documents**

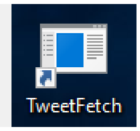
Important Icons in Desktop

1. PharoMOOSE – This will launch MOOSE VM with saved playgrounds.

2. Readme- RunTweetViz – Gives complete details relating to how to run the program, what changes can be done to configuration, overall important locations of the file.
3. RunTweetViz - This will run the bat file, which will fetch tweets and open the MOOSE VM



4. TweetFetch – This will just run the tweet Fetch part. Only downloading tweets.



5. Project GeekO – This will open the Google project Site in Microsoft Edge

6. AgileTweetViz-GeekOh – This will open the Taiga project visual management in Microsoft Edge

7. GitHub–AgileTweetViz – This will open the Github source control web page in Microsoft Edge.