**Creating interactive stream visualizations for CL website**

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Last edited: 7/12/20

The following document describes the steps required to develop an interactive data visualization for the Clear Lake Wix Website. All Data analysis and processing is conducted in Matlab and then imported into a Python environment for online visualizations.

Software required:

* Matlab
* Python Editor (Spyder, Sublime, Jupyter Etc)
* Github Desktop

Steps

1. Clone Github Repo
2. Create plotly visualization
3. Host visualization on GitHub Pages
4. Get iframe embed code
5. **Clone Github Repo** – The github repository is the online cloud storage area where all interactive web data visualizations are hosted. Cloning the repository allows collaborators to access repository from personal computer and upload data .
   * Navigate to <https://github.com/micahswann/CL_wix>
   * Press the Green “Code” button to Clone the repository.
   * Select “Open with GitHub Desktop” to view repo locally on computer

A screenshot of a cell phone

Description automatically generated

1. **Create plotly visualization –** In python create data visualization using plotly graphing library
   * Note plots must be saved as .html file to the Github Repo
   * Example codes of Plotly visualizations Github Repo
     1. Met\_vis.py
     2. Stream\_vis.py
   * Additional Resources

* Tutorial for plotting plotly figures online: <https://towardsdatascience.com/how-to-create-a-plotly-visualization-and-embed-it-on-websites-517c1a78568b>
* Plotly documentation: <https://plotly.com/python/>

1. **Host visualizations on Github** 
   * Save python code, raw\_data and .html file with plotly figures to GitHub repo.
   * “Push” changes to origin on Github Desktop
2. **Get iframe embed code –** Copy path to location of .html plotly graph in GitHub repo. Input as iframe on Wix

https://micahswann.github.io/CL\_wix/Met/CLO/

Sub\_folder path

Path to github repo