

User guide for crash4viz

By Katharine Chen, Tianqi Fang, Yutong Liu, Shuyi Yin

Step 1:

Clone github repo by ***git clone***

https://github.com/syin3/crash4viz.git

Step 2:

Install the package by ***python setup.py install***

Step 3:

Know what's in our data by looking at

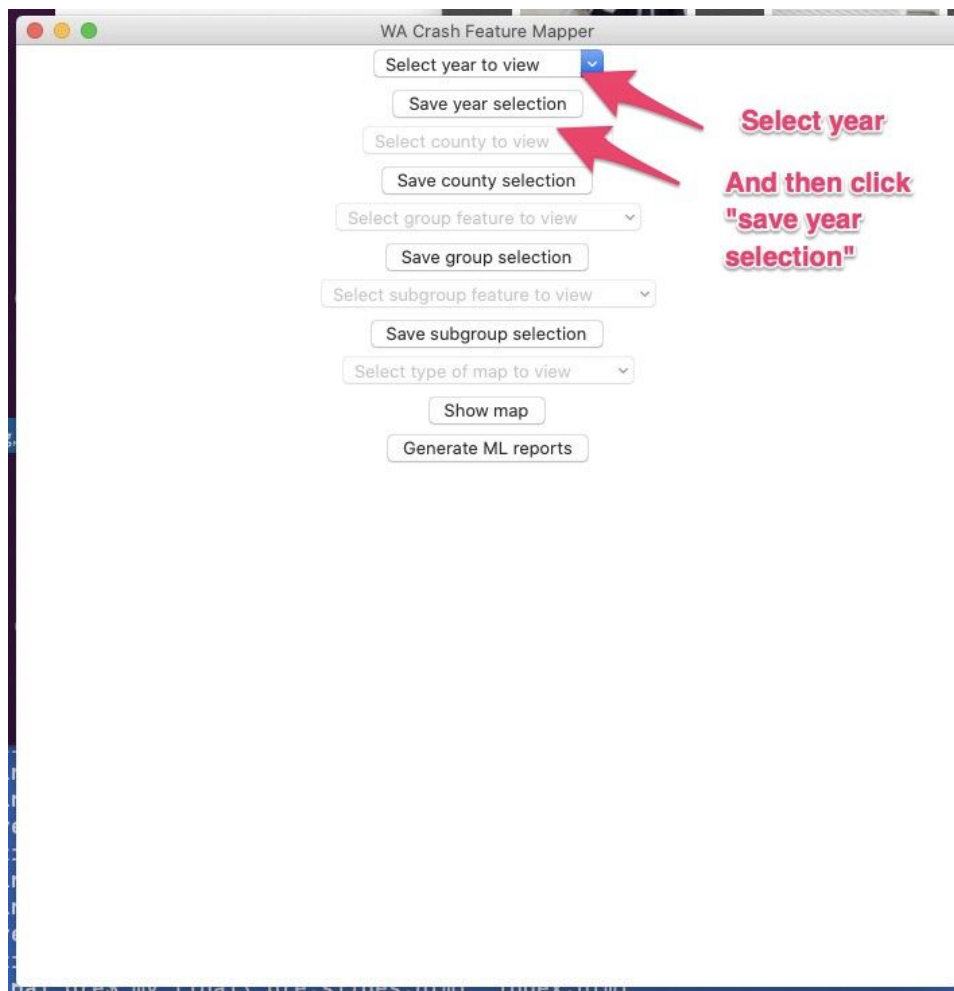
crash4viz/docs/data handbook/var_explanation.pdf and

crash4viz/docs/data handbook/hsis_data_guidebook.pdf

Step 4:

Start using!

(1) Must select year for mapping or report



(2) To visualize, must have valid choices for all fields:

The screenshot shows a web application titled "WA Crash Feature Mapper". It contains several dropdown menus and buttons. The dropdowns are set to "2017", "Klickitat", "Weather", "Clear or Partly Cloudy", and "Basic road-map". Below each dropdown is a "Save" button. A green arrow points to the "Show map" button, and a red arrow points to the "Generate ML reports" button. A red text box on the right says "After selecting And saving all choices,". A green text box at the bottom right says "Click show map". At the bottom, a message reads: "Basic map for Clear or Partly Cloudy, under Weather conditions saved in 'outputs' folder".

WA Crash Feature Mapper

2017

Save year selection

Klickitat

Save county selection

Weather

Save group selection

Clear or Partly Cloudy

Save subgroup selection

Basic road-map

Show map

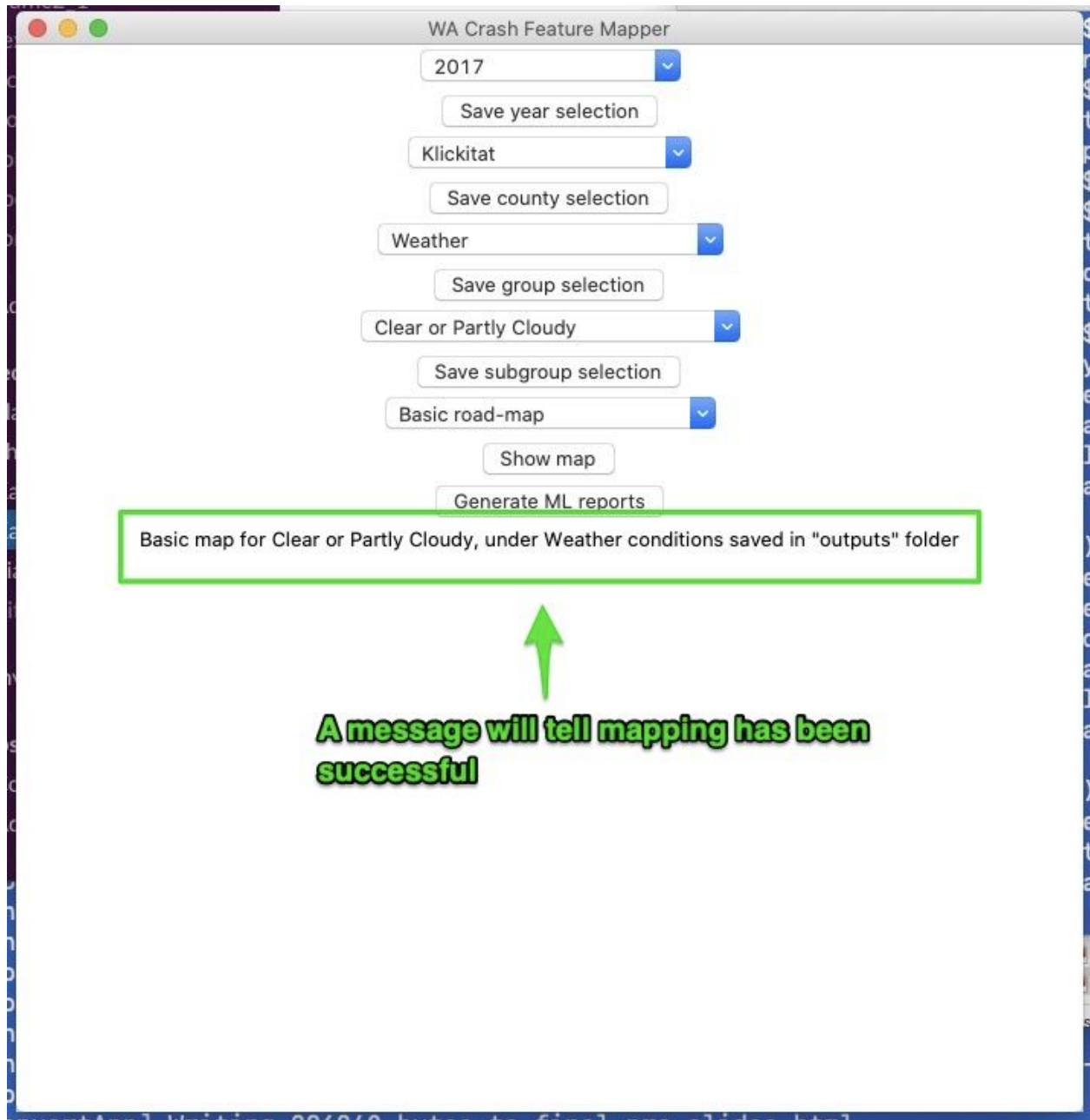
Generate ML reports

After selecting And saving all choices,

Click show map

Basic map for Clear or Partly Cloudy, under Weather conditions saved in "outputs" folder

If successful, a message at the bottom will show up as follows. It will tell the kind of map with selected features are plotted in the output folder, which is "/crash4viz/outputs/" in our case.



- (3) To generate analysis report, the user is only asked to select year. After selection, clicking "Generate ML reports" will produce statistics plots in outputs folder. Again, `"/crash4viz/outputs/"` in our case.

