Usage Guide

0. Getting Started

Please make sure you have `MATLAB` installed, and the version should be `2018a` at least. Wonder how to find out which one you have installed? Please launch `MATLAB` and run the following command in `Command Window` :

```
version
```

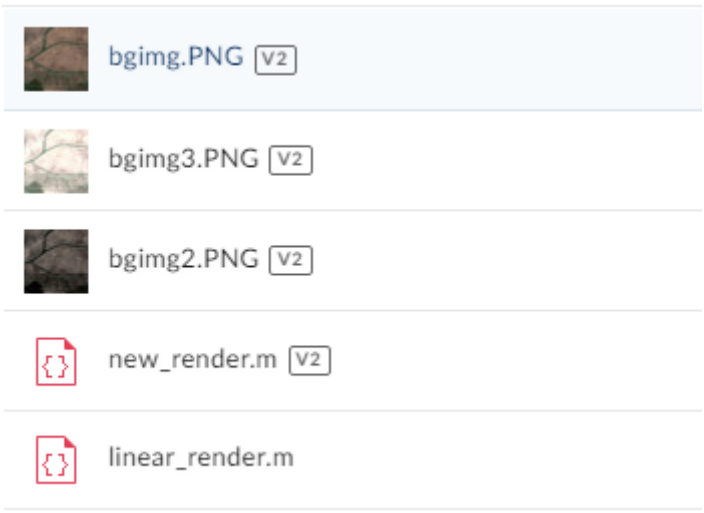
You shall see something as:

```
>> version

ans =

    '9.4.0.813654 (R2018a)'
```

Next, please download the scripts. If zipped, please unzip and check if the following files are under the same directory:



Then, you are good to go!

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1. Launch Program

Please navigate to the directory where the scripts are, then simply run `new_render`. Or run the following command in `Command Window` :

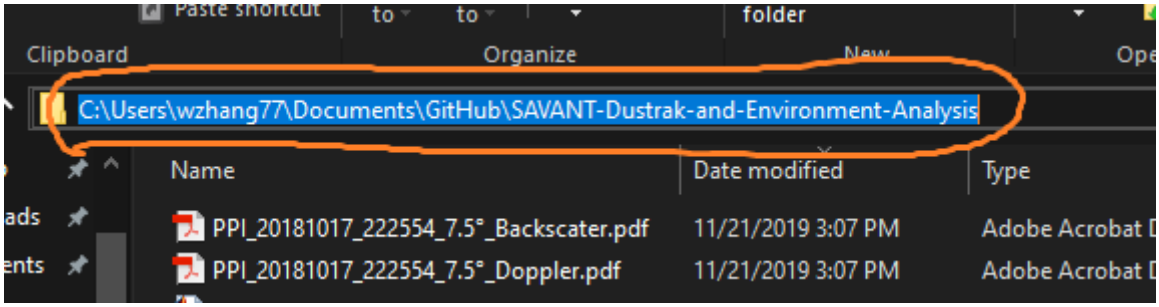
```
new_render
```

Then, you shall see the `Command Window` updated as:

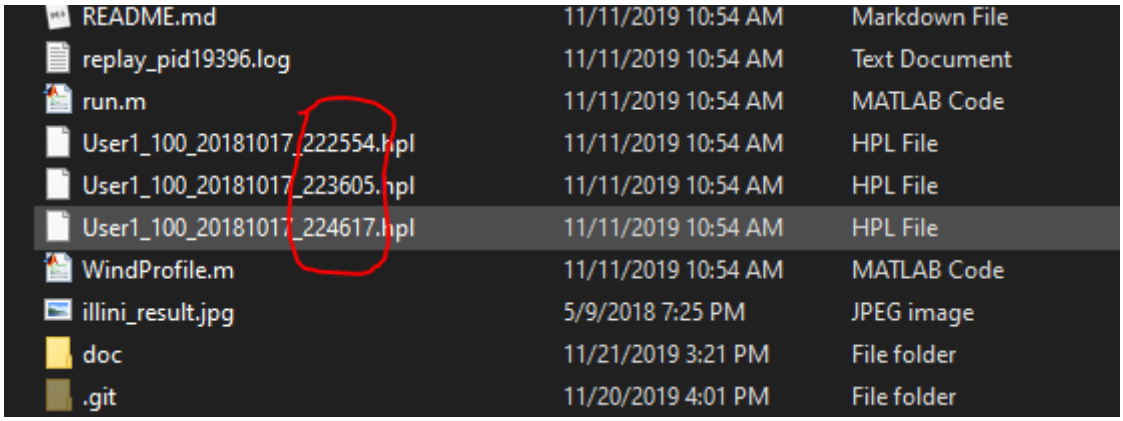
```
New to MATLAB? See resources for Getting Started.

Please paste your full data directory here:
C:\Users\wzhang77\Documents\GitHub\SAVANT-Dustrak-and-Environment-Analysis
```

As shown above, please go to `Explorer` window where the `.hpl` files are:



As labeled in the picture above, please make sure you copy and paste the entire file path into the `Command Window`. Next, go back to the data folder, and obtain the 6 digits tag which you are trying to visualize:



Then, type the digits into the `Command Window`:

```
C:\Users\wzhang77\Documents\GitHub\SAVANT-Dustrak-and-Environment-
Please enter the last 6 digits of the hpl file:
222554
```

Next, you will have the selection on how the background should be like:

```
Please choose your background level: [1] Clear, [2] Altered
2
```

The clear one is the same as shown in the `Google Maps` or `Google Earth`. The `Altered` one has blur matt finish on the background. After selecting the background style, you can choose the angle which you should like to visualize:

```
Here is a list of angles you may choose from :
[ 1] 0.00, [ 2] 0.50, [ 3] 1.00, [ 4] 1.50, [ 5] 2.00, [ 6] 2.50, [ 7] 3.00 ,[ 8] 3.50
[ 9] 4.00, [10] 4.50, [11] 5.00, [12] 5.50, [13] 6.00, [14] 6.50, [15] 7.00 ,[16] 7.50
[17] 8.00, [18] 8.50, [19] 9.00, [20] 9.50, [21] 10.0,
And [0] Quit
16
```

Please wait for a minute or so while all the process finishes. After finishing the visualization, please feel free to interact with it in the `MATLAB` figure window. No worries, a high 1,200 DPI `.png` file will be saved for each figure under the same directory where the scripts are. When you are done, simple type `0` to quit the script.

2. Troubleshooting

Should you have any questions, such as changing the range of the color scale or so, feel free to reach me at:

nyamaza1@mail.ccsf.edu