

Open Data Project: Traffic Violations User Guide

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1 Access the online version

- 1. Open a Javascript enabled Web Browser (preferable Google Chrome)
- 2. Copy and paste the following URL in the URL bar: https://pradyumna16.github.io/D3Cesium/



NOTE: this application runs with several new HTML5 technologies the most important of which is <u>WebGL</u>. Even though these new standards are quickly becoming widely adopted, some browsers and systems need to be updated to support them. If you cannot see the application running as the image above, here are a few things to try.

- 1. Update your web browser. Most of the Cesium team uses Google Chrome, but Firefox, Internet Explorer 11, and Opera will also work. If you're already using one of the above browsers, make sure it's updated to the latest version.
- Update your video card driver to better support 3D. If you know what type of video card you have, you can check the vendor web site for updates. The three most popular are: <u>Nvidia</u>, <u>AMD</u>, and <u>Intel</u>.
- 3. If you're still having problems, try visiting http://get.webgl.org/, which offers additional troubleshooting advice. You can also ask for help on the Cesium forum.



2 Visualization options

2.1 Change the shape of the World Map

1. Click on the globe-shape button on the top right side of the screen



2. Select the first option for a globe map view, the second option for a flat map view or the third option for an inclined flat map view







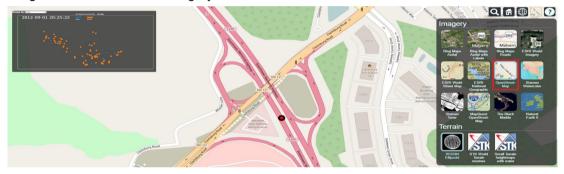


2.2 Change the Imagery Layer

1. Click the Imagery selection button on the top right side of the screen.



2. Click on any of the available options. The default option is Stamen Toner, for an Open Streets Map you can select either OpenStreet-Map or MapQuestOpenStreet Map. For real satellite images select ESRI World Imagery.







3 Navigation options

3.1 Fly to the location of an incident

1. Click on a specific data point in the navigation panel.



2. The application will directly zoom into 100 meters above the specific coordinates of the selected data point.

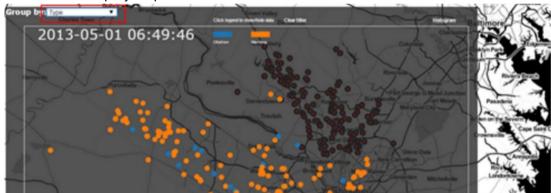




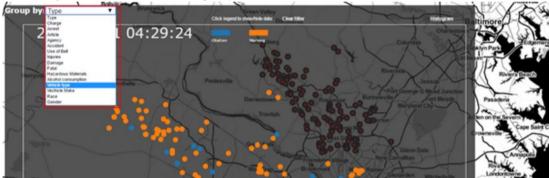
4 Data handling

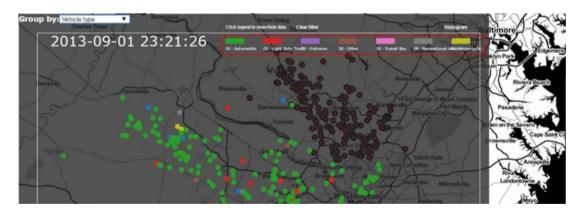
4.1 Grouping

1. Click on the Group By drop down list



2. Select any dimension available to group the data





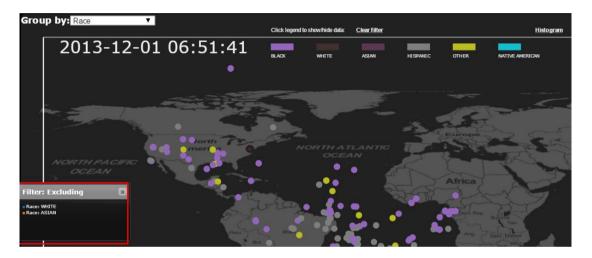


4.2 Filtering

1. Click on the legend to show/hide data.



2. On the left side of the screen a panel will pop-up with all the filtered values selected.



3. To clear the selected filters, click on the "Clear filter" option





4.3 See detailed information

1. Hover on any data point in the navigation panel. A new panel window will pop-up on the right side of the screen with all the available information.



4.4 See aggregated data

1. Click on the "Histogram" option located on the top right side of the Navigation panel. The panel will extend to show a horizontal bar chart with the number of incidents grouped by the selected grouping dimension.





5 Time handling

With the play-time widget you can control the time of the playing visualization. It is composed by the following elements:

- 1. Play onwards button
- 2. Play backwards button
- 3. Pause button
- 4. Triangle handle
- 5. Time bar



5.1 Play onwards

1. To play the time onwards, the triangle handle of the play-time widget has to be placed of the right side of the widget. The play button must be pressed.



5.2 Play backwards

1. To play the time backwards, the triangle handle of the play-time widget has to be placed on the left side of the widget. The reverse play button must be pressed.



5.3 Change pace

1. To change the pace of the clock, move the triangle widget from right (fast) to left (slow) when playing onwards, or from left (fast) to right (slow) when playing backwards. Note that when the triangle widget points to the left, the time automatically plays backwards.

