**Global Climate Change**

**Messaging**

This visualization is designed to compare important factors that impacts the global climate change vs the actual increase. The data is based on NASA models to predict the temperature changes if only “one of the factors were to exist” and disregarding other factors. The single factor modeled temperatures are compared against the actual temperature changes to determine correlation.

The factors being discussed are:

* Volcanic
* Orbital
* Solar
* Aerosol
* Green house

At the end of visualization, the user can clearly conclude the most important factor that’s causing global warming.

**Narrative Structure**

The visualization follows the *interactive slideshow format*. The visualization goes through 6 scenes in one order but the user has control over when to move to next scene by pressing the next button and can use hover action on annotation to get more information on the climate change factor being presented in the scene.

**Visual Structure:**

The visualization uses line graphs that are accumulated on the graph with same scale and axis as user steps through the scene by pressing next button. The accumulative structure helps user compare the effect of each factor. At the end the conclusion is highlighted.

**Scenes:**

There are 7 scenes in the visualization. The first scene is only text description to motivate the problem. Next 6 scenes in the visualization add a line graph for the contributing factor and contrasting against the actual temp. increase with common axis. The scenes for non-contributing factors is presented first. The line graph for primary factor is presented on last scene to guide the user naturally reach conclusion at the end.

**Annotation**

Supporting annotation is added to a rectangular area in the blank area of svg area. The text is replaced in the same rectangle as users moves through scene.

**Parameters**

The parameters of visualization is the model ype (volcanic model, orbital model etc). As this parameter changes a new line graph is added for the model.

**Triggers**

The triggers are the two buttons start and reset. At the start of visualization the button name is “start”. After user presses it once the button name changes to “next” to guide user on the further action.