

The *googleVis* package

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Basic Information

- ▶ To create a *googleVis* chart or graph, you must have a connection to the internet
- ▶ This means that unfortunately you can not produce these graphs direction in a document
- ▶ Although you have the downfall of not being able to include a *googleVis* product in a \LaTeX document, *googleVis* is a great tool for when your final product is HTML based

Chart Types

- ▶ Annotated Time Line
- ▶ Area Chart
- ▶ Bar Chart
- ▶ Bubble Chart
- ▶ Candlestick Chart
- ▶ Combo Chart
- ▶ Column Chart
- ▶ Gauge Chart
- ▶ Geo Chart
- ▶ Geo Map
- ▶ Intensity Map
- ▶ Line Chart
- ▶ Map
- ▶ Motion Chart
- ▶ Org Chart
- ▶ Pie Chart
- ▶ Scatter Chart

The basic code

- ▶ The commands for each type of chart always begins with **gvis**
- ▶ After gvis the next part is the chart type you would like to use
- ▶ So for example if you would like to create a pie chart the code would be *gvisPieChart(.....)* with the options you want for your pie chart in the middle
 - ▶ The chart types will always be capitalized

RStudio and GoogleVis

- ▶ Once your code is written you have to use the plot command on it
- ▶ Once it is plotted, you have to the viewer will be blank
 - ▶ To actually see the vizualization you have to click on the button that opens it in a webpage

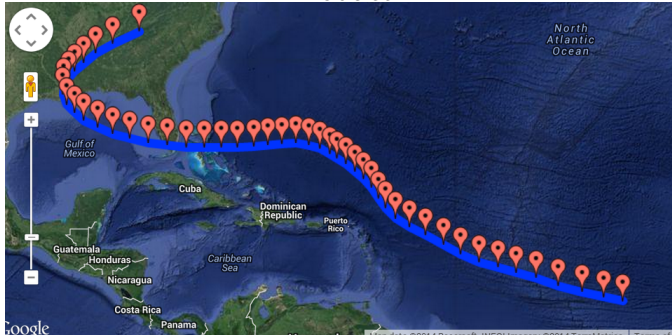
Examples

Maps

Code

```
1 library(googlevis)
2 attach(Andrew)
3 AndrewTable<- head(Andrew)
4 Map<- gvisMap(Andrew, "LatLong" , "Trip",options=list(showLine=TRUE, enableScrollwheel=TRUE))
5 Table<- gvisTable(AndrewTable)
6 plot(gvisMerge(Map,Table))
7
```

Product



GeoMap

Code

```
1 library(googlevis)
2 library(datasets)
3 states<- data.frame(state.name,state.x77)
4 plot(gvisGeoMap(states, "state.name", "Illiteracy",
5               options= list(region="US", dataMode="regions")))
```

Product

