A graph typically represents static information from two or more variables. While this can accurately depict relationships between these variables, there are often trends that become most apparent through animation along the data of one variable. I propose extension of the R framework to support display of graphs animated through the interactive alteration of a single variable. This is similar to the Gapminder project (http://www.gapminder.org). This extension will allow a user to pass a data set to my R package and an interactive graph will be created. My implementation will have the following functionality:

- Graphs supported: Scatter plot; Bar graph; Bubble graph; Pie chart
- Creation of an interactive graph through syntax similar to that of the plot() function
- Slider to control the interactive variable
- ‘Play’ function with various speeds for automated animation
- Ability to change the graph type, the variable on each axis, and the interactive variable

I will implement the project using R and Microsoft’s Silverlight technology, which can be easily connected via Python.