

R Code for Examples in the book "Statistics: The Art and Science of Learning from Data" by Agresti, Franklin and Klingenberg, 5th edition

Chapter 2

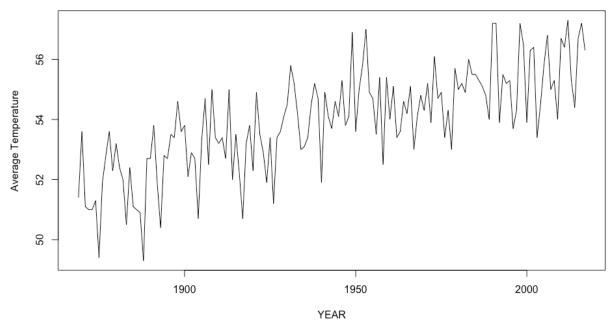
Example 9: Warming Trend in NYC – Time Plot

Read in dataset (using updated version):

```
temps <-
read.csv('http://www.artofstats.com/data/chapter2/central_park_yearly_temps_u
pto2017.csv')
attach(temps) # so we can refer to variable names</pre>
```

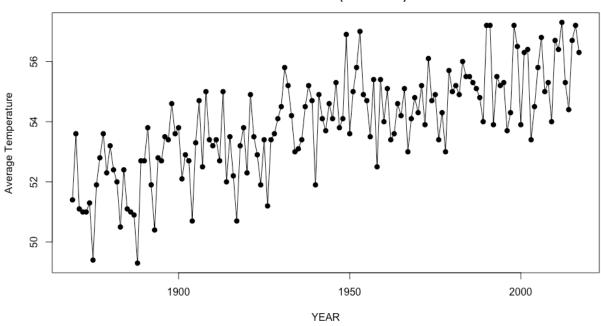
Basic Time Plot:

```
plot(x = YEAR, y = ANNUAL, type = 'l',
    main = 'Annual Average Temperature \n in Central Park (1869-2017)',
    ylab = 'Average Temperature')
```

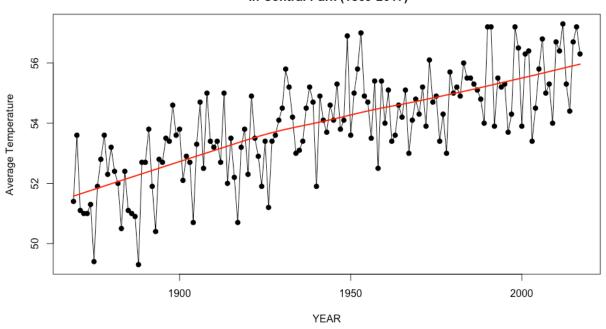


Include Points:

```
plot(x = YEAR, y = ANNUAL, type = 'o', pch=19,
    main = 'Annual Average Temperature \n in Central Park (1869-2017)',
    ylab = 'Average Temperature')
```



Include Smooth Trend Line:



For more fine tuning, it is better to use the ggplot2 library. If you haven't installed it already, first type: install.packages(ggplot2).

