

Bayes Intro 1

Mike Anderson

3/22/2021

Introduction to Applied Bayesian Statistics.

Part 1: History, Philosophy and Motivation

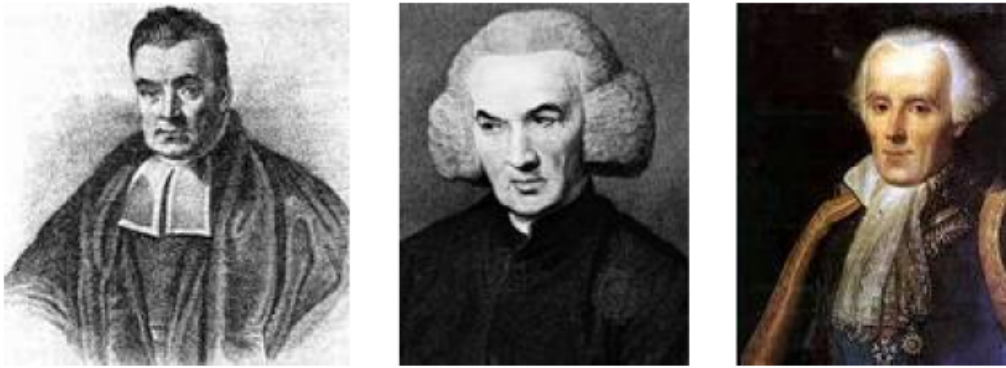


Figure 1: Bayes, Price, Laplace

Major Players in the development of Bayes' Rule

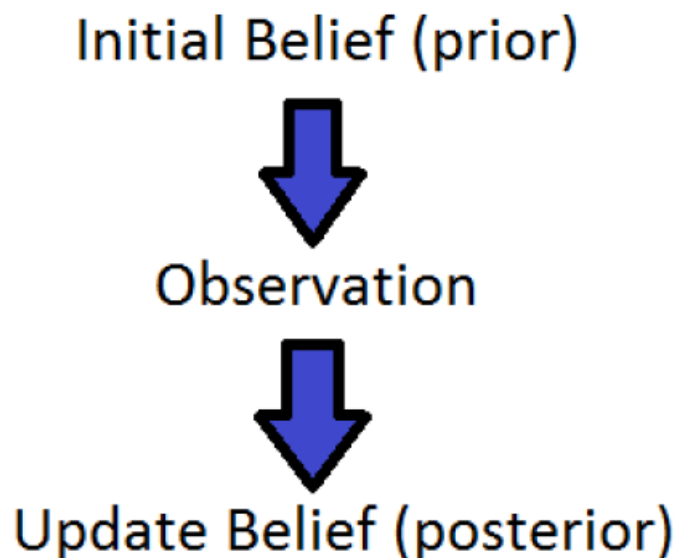


Figure 2: Bayesian Paradigm

Most of us are born Bayesians

The 3-step Bayesian Paradigm *“It is remarkable that this science (probability), which originated in the consideration of games of chance, should have become the most important object of human knowledge.”*
Pierre-Simon de Laplace (1749-1827)

Part 2: Introcutiion to Probability

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

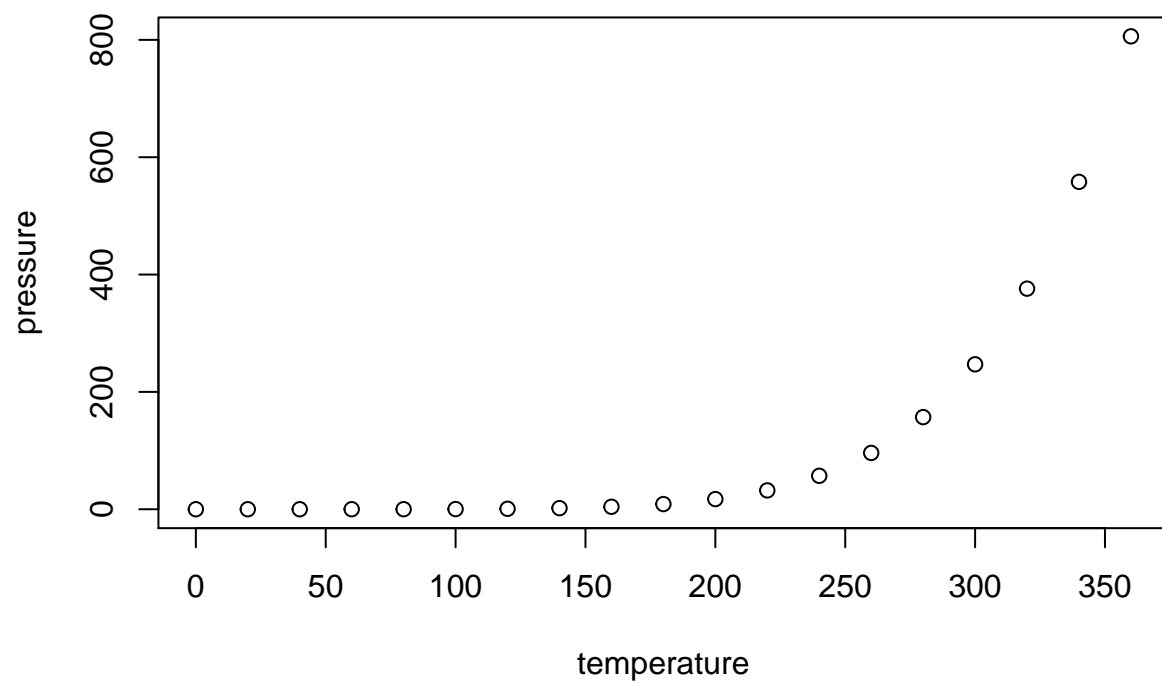
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

```
##      speed      dist
##  Min.   : 4.0    Min.   :  2.00
##  1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##  Mean   :15.4    Mean    : 42.98
##  3rd Qu.:19.0    3rd Qu.: 56.00
##  Max.   :25.0    Max.    :120.00
```

Including Plots

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.