

Note for Class

Azmi

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R Markdown

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>.

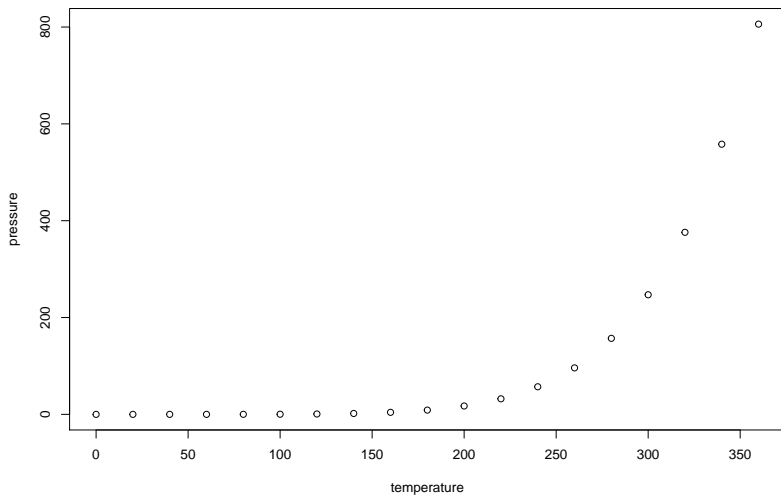
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
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:



Next, plot the `FAIR` results for the `FAIR` model using the `plot` function.

Example - Mediation and confounder

Among important concept in disease causation is bias and confounding. Confounders can be due to a noncausal association between a given exposure and an outcome observed as a result of the influence of third variable

```
grid.newpage()
exposure <-
  "Exposure
  (e.g. Coffee)"
expbox <- boxGrob(exposure, x=.2, y=.8)
outcome <-
  "Outcome
  (e.g. Lung Ca)"
outbox <- boxGrob(outcome, x=.8, y=.8)
confounder <-
  "Confounder
  (e.g. Smoking)"
confbox <- boxGrob(confounder, x=.5, y=.2)
connectGrob(expbox, outbox, "horizontal")
```