DemoDecomp: an R Package for General Demographic Decomposition Methods

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Abstract

Background

Most demographic indices are functions of parameters, such as age-structured rates. There are many case-specific methods to decompose differences in indices to differences in parameters, but only a few general methods exist.

Objective

We aim to demonstrate the use of two general decomposition methods available in the `R` package`DemoDecomp`.

Methods

Three methods are demonstrated: pseudo-continuous decomposition proposed by Horiuchi et. al. (2008) (`horiuchi()`), stepwise replacement decomposition (`stepwise_replacement()`) by Andreev et. al. (YYYY), and lifetable response experiment (`ltre()`) by Caswell (YYYY).

Results

Conclusions

Contribution

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.

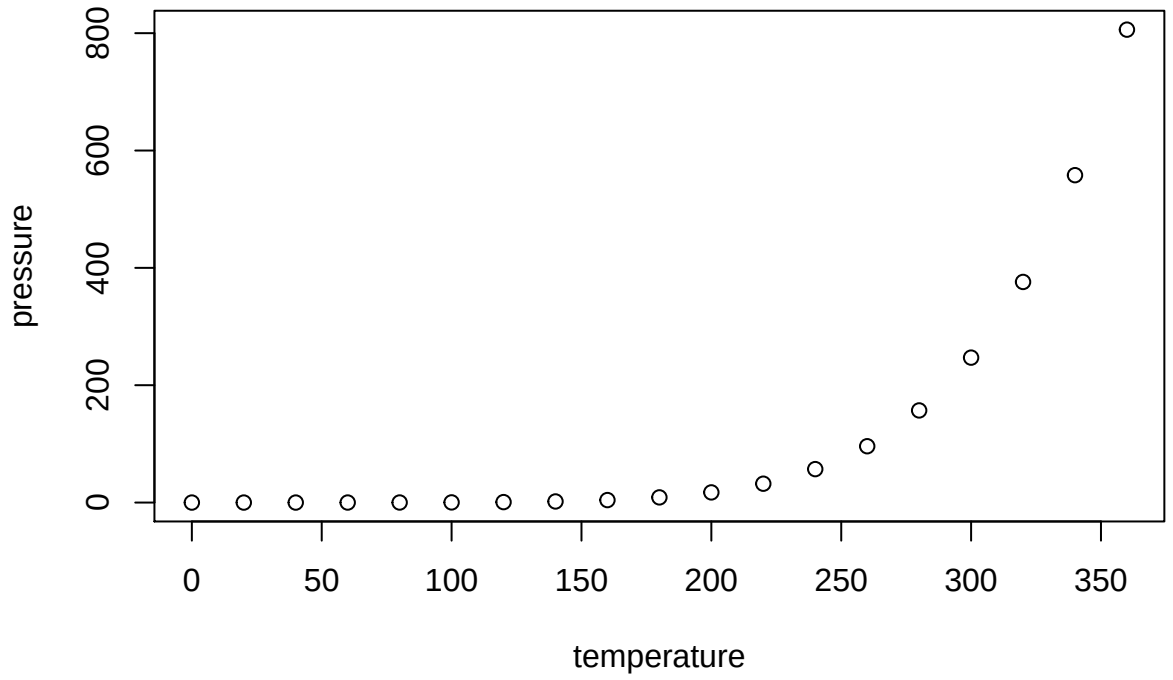
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
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:



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