BDA - Assignment X

Anonymous

Contents

This is a template with format instructions for Assignments in the Bayesian Data Analysis course at Aalto University. R markdown is a convenient way of writing exercise reports by combining text and R code using markdown syntax. To create your assignment, remove the formatting instructions and use this file as a template.

More information on how to use markdown, see this and more information on R markdown can be found here.

Also, *R Markdown: The Definite Guide*, an extensive book on R Markdown can be found here.

Note The report should be anonymous and submitted to peergrade.io as `assignmentX.pdf`. If you have problem with creating a PDF file directly from R markdown, start by creating an HTML file and the just print the HTML to a PDF.

Loaded packages

Below are examples of how to load packages that are used in the assignment

```
# To install aaltobda, see the General information in the assignment.
library(aaltobda)
```

Format instructions

All exercises in the assignment should start with header 1 fully specifying that it is exercise X (ie # Exercise 1).

a)

Subtasks in each assignments should be numbered and use header 2 (two ##).

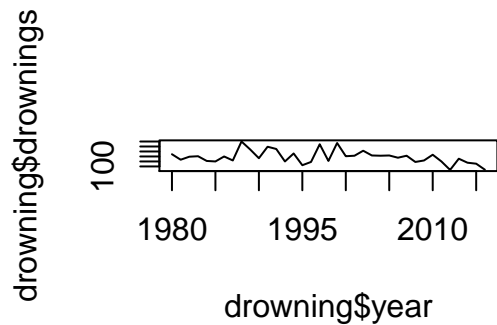We can easily add R code as chunks in the following way:

```
5 + 5
```

```
## [1] 10
```

Plots

Include plots, where we can specify the width and height of the figure.

```r
data("drowning") # Access the data in aaltobda package
plot(drowning$year, drowning$drownings, type = "l")
```


Equations

Equations can easily be formulated using LaTeX in line as $f(k) = \binom{n}{k}p^k(1-p)^{n-k}$ or use the math environment as follows:

$$
\begin{array}{ccc}
x_{11} & x_{12} & x_{13} \\
x_{21} & x_{22} & x_{23}
\end{array}
$$

If you are new to LaTeX equations, you could use the latext4technics equation editor to create LaTeX equations to include in the report.

More information on using LaTeX in R markdown can be found in 2.5.3 in R Markdown: The Definite Guide.