

Excercise Sheet

1. Open RStudio and create a new RMarkdown File (.Rmd) with the follwing YAML parameter:

- Title: The Iris Data Set
- Document Type
- Default Output Format: PDF

2. Create an R chunk called: load

```
data("iris")
library(c("stargazer", "xtable"))
```

3. Make horizontal rule under the title

4. Create the subtitle: Description

5. Print a summary of the dataset using

```
summary(iris)
```

6. Create a nicer summary using

```
options(xtable.comment = FALSE)
xtable::xtable(summary(iris), type = "latex", comment = FALSE,
               caption = "Summary of the data set")
```

7. Create a new section called Scatterplot Matrix and plot

```
plot(iris)
```

8. Perform a logistic regression analysis and produce a neat table with the output

```
iris[['Is.Versicolor']] <- as.numeric(iris[['Species']] == 'versicolor')
iris[['Is.Virginica']] <- as.numeric(iris[['Species']] == 'virginica')
fit.1 <- glm(Is.Versicolor ~ Petal.Length + Sepal.Length, data = iris)
fit.2 <- glm(Is.Virginica ~ Petal.Length + Sepal.Length, data = iris)
#summary(fit)
output <- capture.output(stargazer(fit.1, fit.2, title = 'Regression Results',
                                   summary=FALSE, header=FALSE))
cat(output)
```

9. Include the references using bibliography.bib