# XXTitle

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**20XX**

# XXTITLE

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XX ECTS thesis submitted in partial fulfillment of a
*Magister Scientiarum* degree in XX

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University of Iceland
Reykjavik, XXmonth 20XX

XXTitle
XXShort title (50 characters including spaces)
XX ECTS thesis submitted in partial fulfillment of a M.Sc. degree in XX

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Bibliographic information:
XXAuthor name, 20XX, XXTitle, M.Sc. thesis, Faculty of XX, University of Iceland.

ISBN XX

Printing: Háskólaprent, Fálkagata 2, 107 Reykjavík
Reykjavik, Iceland, XXmonth 20XX

*Dedication*

# Abstract

bla

# Útdráttur

bla

# Preface

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# Abbreviations

# Acknowledgments

# 1 Introduction

This is the introduction

## 1.1 Some section

This is some section

### 1.1.1 This is some subsection

This is some subsection

# 2 Examples

Here are some examples

## 2.1 R code

Load some library

```
library(tidyverse)
library(knitr)
library(kableExtra)
library(ggthemes)
theme_set(theme_tufte() +
            theme(panel.border = element_rect('black', fill = NA)))
```

Load some data and create some table.

```
mtcars %>%
  filter(row_number() <= 10) %>%
  kable(booktabs = T, 'latex',
        caption = "Some table") %>%
  kable_styling(full_width = F,
                bootstrap_options = 'striped',
                latex_options = 'hold_position')
```

*Table 2.1: Some table*

| mpg | cyl | disp | hp | drat | wt | qsec | vs | am | gear | carb |
|---|---|---|---|---|---|---|---|---|---|---|
| 21.0 | 6 | 160.0 | 110 | 3.90 | 2.620 | 16.46 | 0 | 1 | 4 | 4 |
| 21.0 | 6 | 160.0 | 110 | 3.90 | 2.875 | 17.02 | 0 | 1 | 4 | 4 |
| 22.8 | 4 | 108.0 | 93 | 3.85 | 2.320 | 18.61 | 1 | 1 | 4 | 1 |
| 21.4 | 6 | 258.0 | 110 | 3.08 | 3.215 | 19.44 | 1 | 0 | 3 | 1 |
| 18.7 | 8 | 360.0 | 175 | 3.15 | 3.440 | 17.02 | 0 | 0 | 3 | 2 |
| 18.1 | 6 | 225.0 | 105 | 2.76 | 3.460 | 20.22 | 1 | 0 | 3 | 1 |
| 14.3 | 8 | 360.0 | 245 | 3.21 | 3.570 | 15.84 | 0 | 0 | 3 | 4 |
| 24.4 | 4 | 146.7 | 62 | 3.69 | 3.190 | 20.00 | 1 | 0 | 4 | 2 |
| 22.8 | 4 | 140.8 | 95 | 3.92 | 3.150 | 22.90 | 1 | 0 | 4 | 2 |
| 19.2 | 6 | 167.6 | 123 | 3.92 | 3.440 | 18.30 | 1 | 0 | 4 | 4 |

## 2.2 Figures

Create some simple plot

```
mtcars %>%
  select(-vs, -am) %>%
  gather(variable, value, -cyl) %>%
  ggplot(aes(x = factor(cyl), y = value)) +
  geom_boxplot() +
  facet_wrap(~variable, scales = 'free', ncol = 2)
```

### 2.2.1 Discussion

This is some subsection where we discuss this and that.

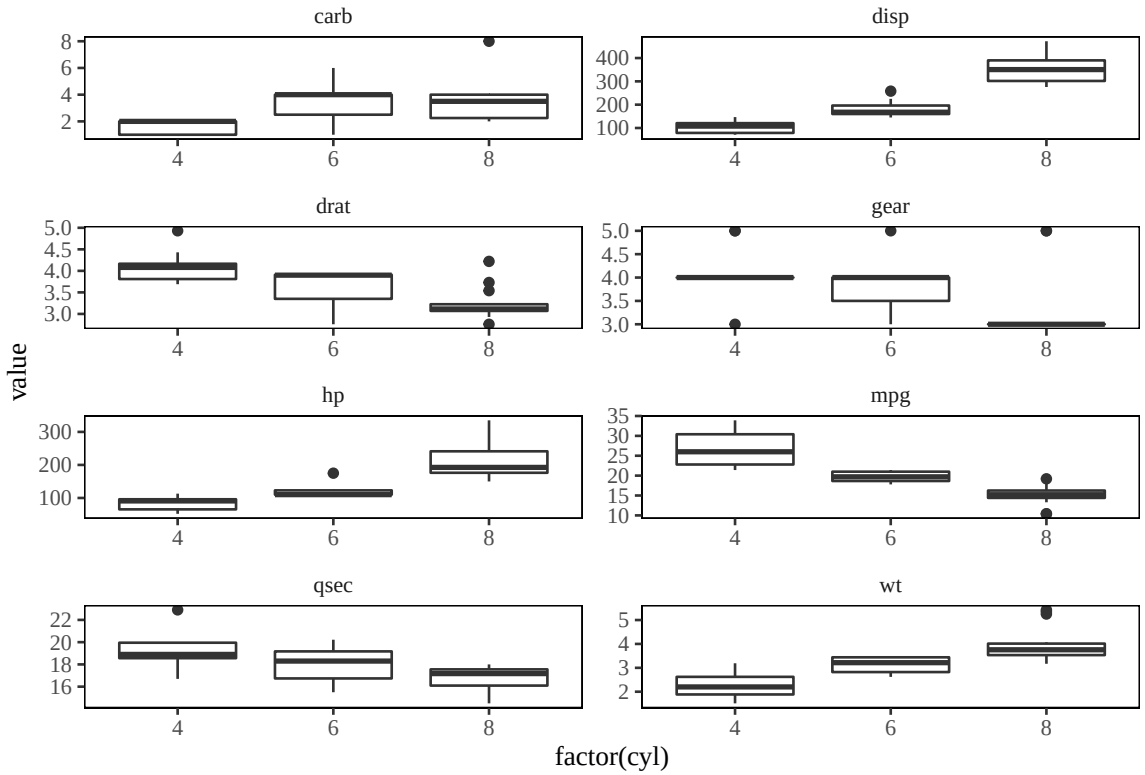


*Figure 2.1: Some boxplot*