Competition Policy

Session 1. Introduction to markdown

Misja Mikkers

Tilburg University

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What is Markdown?

- Markdown is a markup language for creating documents.
 - Simple Syntax (see below)
 - Can be converted to different documents (e.g. pdf, html, word,...).
 - Used by R, Jupyter, Gihub, etc...
 - Think of it as a streamlined version of latex.
 - We made this presentation using Markdown!



How to work with markdown

- R Studio supports R-Markdown.
- Consists of a markdown file ('*.Rmd').
- Very good documentation https://rmarkdown.rstudio.com
- Can be knitted in R Studio or converted using pandoc.



Anatomy of a markdown file

```
title: "My Document"
output: html_document
author: "name"
date: "date"
---
```

- multitude of options:
 - output: beamer_presentation, word_document, pdf_document
 - See documentation for more
- preamble followed by content



Headers

Header 1

```
## Header 1.1
```



Lists

- 1. item 1
- 2. item 2
- item 1
 - subitem
- item 2



Formatting

```
**bold**, *italic*, `monospace`,
```

bold, italic, monospace



Tables

```
|city |population|
|-----|
|Tilburg | 211648 |
|Amsterdam | 821752 |
```

This gives:

city	population
Tilburg	211648
Amsterdam	821752



Formulas

• Markdown allows to use Latex code for formulas:

in-line formula:
$$f(x) = a_0 + a_1 x + a_2 x^2$$

in-line formula:
$$f(x) = a_0 + a_1x + a_2x^2$$

or below text:

$$[2 = \lim_{n\rightarrow\infty} \int_{i=0}^n\frac{1}{2^i}$$

$$2 = \lim_{n \to \infty} \sum_{i=0}^{n} \frac{1}{2^{i}}$$





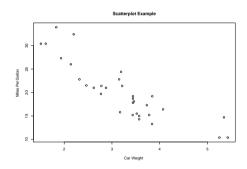
Inclusions

```
link: [link](www.link.com)
image: ![Image](image.png "image")
```



Including R code

• R markdown also allows to directly include r code





Git

- Git is a language to track versions of documents. (distributed version control system)
- Imagine working on a word document for a long time.
 - How do you make sure to know what you did?
 - You'd create periodical backups.
 - But this is not very efficient!
- Instead version management:
 - Start with the initial commit.
 - Whenever you change something git only saves the changes.
 - You can access the current up-to-date document.
 - You can also access any previous version.
 - You see which line was changed!



Github

- You can run git on your own computer
- or on specialized websites:
 - Github most popular. https://github.com
 - many alternatives: https://about.gitlab.com https://bitbucket.org
 - Github offers education accounts https://education.github.com

