

Introduction Markdown

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Introduction

Latex

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Introduction

this lecture

- ▶ in this part, we look at
 - ▶ markdown
 - ▶ pandoc
 - ▶ atom

Latex

latex vs markdown

- ▶ Latex is great!
- ▶ markdown does not compete with latex when writing a paper or PhD thesis
- ▶ however,
 - ▶ when writing a short note (say, assignment or referee report), latex is a bit heavy handed
 - ▶ latex is geared towards pdf; markdown is a lot more flexible, e.g. export to html
 - ▶ markdown to write your first notes (e.g. on a paper), then you convert to latex
 - ▶ creating presentations in latex is ... horrendous (and we don't want to talk about Office at all)
 - ▶ jupyter notebooks allow you to explain your code with markdown, results in something like this

Installation

what you need

- ▶ markdown: nothing
- ▶ pandoc: go to pandoc website
- ▶ an editor, e.g. atom
 - ▶ you can use editors like atom and emacs also for latex and lots of other things
 - ▶ please don't use Scientific Workplace (or any other 'wysiwyg' editor); it is easy at the start, but you will regret such a choice for the rest of your life ...

markdown

simple!

- ▶ markdown allows you to create structure in a simple way
- ▶ much simpler than latex and more readable in source file
- ▶ especially when making presentations this is very useful

- ▶ examples are:

```
this is a heading
```

```
=====
```

```
subheading
```

```
-----
```

or when doing a presentation:

```
new slide
```

```
-----
```

```
* first bullet
```

```
* second bullet
```

- ▶ math you type as in latex

* `x^2`, `$$\beta$`, `$$\sqrt{9}$`, `$$\frac{1}{2}$`, `$$\bar{x}$`

- ▶ This yields:

- ▶ $x^2, \beta, \sqrt{9}, \frac{1}{2}, \bar{x}$

pandoc

- ▶ this is where the magic happens
- ▶ you need to be able to work with shell/terminal/command prompt (which is useful for latex as well)
- ▶ with pandoc you can convert markdown files into many other file formats
- ▶ pandoc website contains examples of how to convert from one file format into another
- ▶ these commands can be quite elaborate

- ▶ the command to turn the markdown version of this presentation into an html file is given by

```
pandoc -s --mathjax --slide-level 2 --toc --toc-depth=1 -t
```

- ▶ if you are really addicted to latex beamer, then do:

```
pandoc --slide-level 2 --toc --toc-depth=1 -t beamer markd
```

- ▶ the result
- ▶ which is not as neat as the html version

- ▶ have fun using pandoc!