Polynom

A modern, clean 16:9 beamer template

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Motivation

This theme is developed to match PowerPoint-Templates by Alexander Bartolomey GitLab / GitHub.
It is developed because of the lack of clean LaTeX-Templates that are designed with 16:9 in mind. (Also I did not want to use the theme provided by my university)

Preamble

I highly recommend the use of XeLaTeX, especially the unicode and font support are very beneficial for the creation of presentations.
Nevertheless, we will try to keep the theme working on standard LaTeX, but the theme will probably be less tested on LaTeX

Features

Clean and pleasing: Framedesign

To use stacked headlines, you have to specify

- the upper line with `\framesubtitle{...}`
- the lowe (main) line with `\frametitle{...}`

Math in Polynom

Looks very nice, thanks to serifs and boldfaced letters

$$\boldsymbol{A} = \boldsymbol{U}\boldsymbol{\Sigma}\boldsymbol{V}^{\boldsymbol{T}}$$

for every matrix $\boldsymbol{A} \in \mathbb{R}^{\boldsymbol{m}\times\boldsymbol{n}}$ with

$$\boldsymbol{\Sigma} := \mathbf{diag}(\boldsymbol{\sigma}_1, \ldots, \boldsymbol{\sigma}_{\boldsymbol{p}}) \in \mathbb{R}^{\boldsymbol{m}\times\boldsymbol{n}}, \boldsymbol{p} = \mathbf{min}(\boldsymbol{m}, \boldsymbol{n})$$

Section Titles

Section Titles

- Activated by default
  - deactivated by calling polynom with `\usetheme[sectiontitles=f]{polynom}`
- For Sections, Subsections and Subsubsections

Special Feature
Images on section titles

To add an image to the title of the next section, call `\nextsectionimage{#1}`, where `#1` is the image file, as you would specify it for `\includegraphics`. Keep in mind, that the image height **always** will be matched to the height of the bar, which has an aspect-ratio of 8:3.
See next slide for an example (Photo by Bailey Zindel on Unsplash)

Font Selection

Main Font

As a main font, we advise the usage of a heavy bold-face geometric typeface. We formerly used Googles Product Sans, but since it is not available for free due to licensing, there are several alternatives:

- TEXGyre Adventor (Free) (Works for LATEXand XeLATEX, used in this document)
- Futura PT Heavy
- Helvetica, using `\usepackage{helvet}`
- Gillius ADF (Free)
- Karla (Free)

Monospaced Font

Any monospaced font you like, we prefer Fira Mono. Please do not use Fira Code or other fonts with programming ligatures for your presentations because viewers who do not know them can (and will!) get confused by XeLaTeX ligature support, e.g. condensing !== to three horizontal lines with one skewed vertical right through it.

Textsizes

tiny scriptsize footnotesize small normalsize (Default) large Large LARGE huge Huge

Color Palette

Default Color Theme

The default palette consists of the following colors:

Color Theme `polynomseconddegree`

Load it via `\usebeamercolortheme{polynomseconddegree}`. The main palette consists of the following colors:

`polynomseconddegree` provides additional colors schemes, which you can switch dynamically, the default one can be restored by by

`\setPaletteBlue`

Red Color Theme `polynomseconddegree`

To use the red color scheme, call `\setPaletteRed` before the first frame you want to use it on (also affects section-titles etc.)

palette primary	palette secondary	palette tertiary	palette quaternary

Green Color Theme `polynomseconddegree`

To use the green color scheme, call `\setPaletteGreen` before the first frame you want to use it on (also affects section-titles etc.)

palette primary	palette secondary	palette tertiary	palette quaternary

Banner-Pages

Banner Pages

To highlight important messages, you can create banner pages with the following code: `\setbeamertemplate{banner page}[polynom][Bannerpagetext]`
Now you have to use this on your next frame:

`\usebeamertemplate{banner page}`

Alternatively, you can use the command `\bannerpage{...}`

buzzword!

If you replace `banner page` by `banner page invert`, or use `\bannerpageinvert{...}` you get an...

inverted banner page!

Postamble

Development

This theme is under active development to progressively match the PowerPoint template so that the PowerPoint and LaTeX–template will be usable in a similar (even though not completely identical (eyes on ligature–support and animations) manner.
The development takes place in `this` repository, please submit any bug reports or feature requests there.

Thanks

Many thanks to Alexander Bartolomey for the great PowerPoint template and his work on the LaTeX implementation.