## The MWG LATEX beamer theme

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Dedicated to my teachers and fellow students in year 11

They showed me the beauty of METEX as well as the several flaws of MS Office documents

#### **Abstract**

The MWG beamer theme is considered as a beamertheme suitable for every possible use. It uses the red color and the logo of the Markgräfin Wilhelmine Gymnasium, Bayreuth.

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## Important note

Since the MWG logo included in the footline by default consists of a TikZ source approximately 5 850 lines long, presentations may compile very long time. This can be very nasty, especially during the process of creating the presentation.

You can avoid this by passing the draft option which removes the logo *temporary*. Besides that, many theme options applicable may permanently remove or replace the logo. See section 2 for further details.

## Dependencies and other requirements

The GYPT theme requires  $\mathbb{E}_{E}X \circ_{\varepsilon}$  and – in addition to the ones requested by the beamer class – following packages:

appendixnumberbeamer

A simple solution for appendix frames not being calculated into the total number of

etoolbox Provides access on  $\varepsilon$ -T<sub>F</sub>X primitives

tikz The frontend to pgf used for drawing background and logo

## Call for cooperation

Please report bugs and other problems as well as suggestions for improvements to my email address (sfr682k@t-online.de).

## Style sample

The style sample shown in figure 1 was made using the sample presentation "Writing presentations in MFX beamer?" created and maintained by Sebastian Friedl1.

#### License

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The latest version of this license is available at http://www.latex-project.org/lppl.txt and version 1.3c or later is part of all distributions of LTFX version 2008-05-04 or later.

This work has the LPPL maintenace status 'maintained'. The current maintainer of this work is Sebastian Friedl.

This work consists of the following files:

- beamerthemeMWG.tex and
- beamerthemeMWG\_documentation.tex

<sup>&</sup>lt;sup>1</sup>Source available on GitHub (*MFX Project Public License 1.3c or later*)

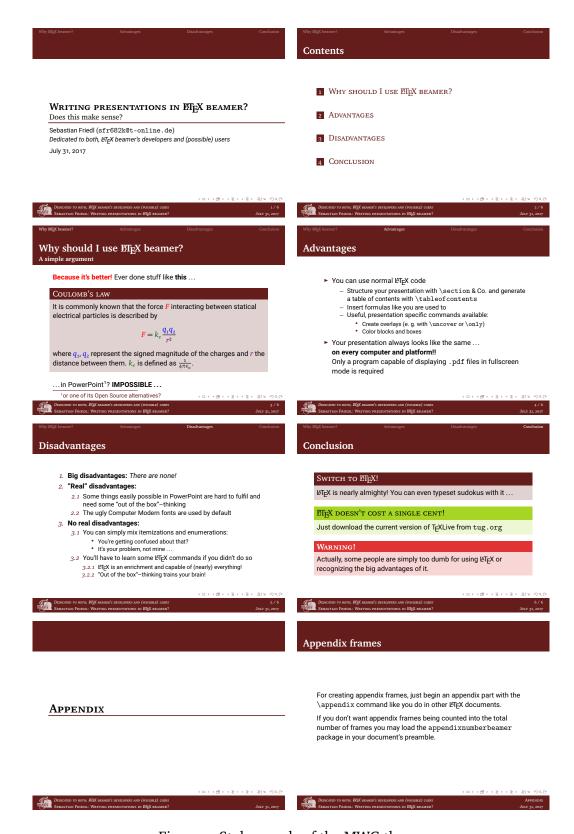


Figure 1: Style sample of the MWG theme

## 1 Using the theme

For using the theme you have to copy the file beamerthemeMWG.sty into the folder containing the master file of your presentation. Advanced users may also install the style file on their local system.

After that, simply use the command \usetheme{MWG} to set the theme used in your presentation to the MWG theme.

## 2 Theme options

Passing some options to the theme influences the way it behaves.

Syntax: \usetheme[<option1>, <option2>, ...]{MWG}

## Available options:

nologo No logos will be shown anywhere on the frame

draft Prevents placement of the logo in the footline but keeps reserving the space.

In contrast to the draft option of the beamer class, the other contents of the frame

still stay the same and remain displayed.

externallogo Removes the logo from the footline and the logo specified with the \logo command

will be shown on the right-hand side directly above the footline

nosmallcaps Apply this option if the used fonts don't provide a small caps shape

notoc This option prevents the navigation being placed in the headline, resulting in an empty

headline. Use the noheadline option for removing the complete headline.

noheadline Removes the headline

smallfootline Uses a footline half the size of the default footline

## 3 Features

There are some features allowing configuration and personalization of the MWG theme as well as easier writing the presentation's source.

#### 3.1 Title graphic

The theme is capable of showing a graphic on the title— and other structure frames. The title graphic used by the theme is declared with \titlegraphic{<graphic>}, where <graphic> represents a command like \includegraphics used for loading the title graphic itself.

Note:

The title and structure frames will have a slightly different layout when a title graphic is defined

## 3.2 Structure frames

When using the MWG theme there will be a separation frame generated when the \appendix command is set.

In addition to that, other structure frames may be inserted – this can happen either manually or automatically.

#### Manual insertion of structure frames

\partframe - a frame showing the current part \sectionframe - a frame showing the current section \subsectionframe - a frame showing the current section and subsection

The commands can be used inside as well as outside a frame.

If a command is used *inside* a frame this frame will be used; please note that the elements of the structure frame may cover the other content placed in this frame. If a command is used *outside* a frame the theme will generate one; this frame won't be

calculated into the total number of frames and there won't be a frame number shown in the footline.

### Automatically insertion of structure frames

Commands activating automatically insertion:

```
part frames \activatepartframes
section frames \activatesectionframes
subsection frames \activatesubsectionframes
```

#### Commands deactivating automatically insertion:

```
part frames \deactivatepartframes
section frames \deactivatesectionframes
subsection frames \deactivatesubsectionframes
```

It is recommended to deactivate the automatically insertion of part frames before using the \appendix command; otherwise there will be two separation frames generated.

## 4 Appropriate fonts

Many elements of the MWG theme use the SMALL CAPS font shape.

This can lead to some unwanted results (like sans–serif text mixed up with serif small caps) when the default MEX document font, Computer Modern is used.

On the other hand, the theme does not require any font packages, since there may be some problems with engines like XAMTEX or LualMEX.

Therefore, you should load some font packages on your own.

In following, recommended combinations are listed.

For this documentation, the Charter & Roboto combination is used.

## 4.1 Font combinations using MFX packages

```
Charter & Roboto
                                              supports: \text{MT}_{\text{FX}}, \text{pdf} \text{MT}_{\text{FX}}, \sqrt{math}
\usepackage[charter]{mathdesign}
\usepackage[osf]{XCharter}
\usepackage[osf,scale=.92]{roboto}
\renewcommand{\familydefault}{\sfdefault}
Charter & Droid Sans
                               \usepackage[charter]{mathdesign}
                                         doesn't support: SANS-SERIF SMALLCAPS
\usepackage[scale=.85,defaultsans]{droidsans}
                                              supports: \text{ET}_{FX}, \text{pdf}_{ETFX}, \sqrt{math}
Utopia & Source Sans Pro
\usepackage[utopia]{mathdesign}
                                         doesn't support: SANS-SERIF SMALLCAPS
\usepackage[scale=.95]{sourcesanspro}
Times & Helvetica
                               supports: Letex, pdfletex, Xallex, Lualetex, √math
\usepackage[slantedGreek]{mathptmx}
\usepackage[scaled=.92]{helvet}
   Font combinations for XHMFX and Lual Lual using fontspec
Please check whether these fonts are installed on your local system before using this font
combinations. The fontspec and unicode-math packages both require the document
being compiled with XHMFX or Lual TFX.
Cambria, Calibri & Consolas
                                            supports: X¬MT<sub>F</sub>X, LuaMT<sub>F</sub>X, √math
\usepackage{fontspec}
\usepackage{unicode-math}
\setmainfont{Cambria}
\setmathfont{Cambria Math}
\setsansfont[Scale=MatchLowercase]{Calibri}
\setmonofont[Scale=MatchLowercase]{Consolas}
Load the fonts with the Numbers=0ldStyle option to obtain old style figures
Constantia, Corbel & Consolas
                                                   supports: XqETeX, LuaETeX
\usepackage{fontspec}
\setmainfont{Constantia}
\setsansfont[Scale=MatchLowercase]{Corbel}
\setmonofont[Numbers=OldStyle,Scale=MatchLowercase]{Consolas}
List of Figures
```