Preparing beautiful presentations in the HZDR and HIF styles

— A LaTeX template —

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Introduction

This template is based on the popular LaTeX Beamer class. It mimics the official presentation template outlined in the corporate design manual. For producing a HIF version, enable the global `hif` option:

HIF setting

```
\documentclass[hif, ...]{beamer}
```

PDF and SVG output is possible (see below). SVG offers some interesting features: embedded videos, GIFs and animations that work reliably in modern Web browsers, such as Chrome, Edge and Firefox, and the mouse pointer can be turned into an emulated laser spot:

SVG settings

```
\documentclass[
  dvisvgm, hypertex, % required
  laserspot % optional
]{beamer}
```

Send bug reports and feature requests to a.grahn@hzdr.de or open an issue on the bug tracker.

Producing output (I)

This presentation and its sources are packaged as a `zip` archive which can be downloaded here. It can also be downloaded or cloned from its source repository.

The archive's root directory, `LaTeX-Beamer-2020`, should be used as the master. Make a copy of it for every new presentation. Alternatively, the subdirectory `beamerthemehzdr` can be copied to `$TEXMFHOME/tex/latex/`. On Unix-like systems, the personal `texmf` tree is located in the user's home directory as `~/texmf`. In doubt, it can be found with `kpsewhich --var-value TEXMFHOME` on the command line.

Also, the `zip` file can be imported as a new project in the Overleaf online editor.

Building the presentation requires at least TeX Live 2023 (preferred) or MiKTeX with up-to-date packages. Both distributions can be installed with normal user privileges alongside a system-wide installation. Additionally, building the SVG version needs a recent Ghostscript.

PDF

```
pdflatex talk   % or lualatex talk
```

Producing output (II)

For SVG output, first enable the `hypertex` and `dvisvgm` document class options in the input file.

SVG

```
dvilualatex talk
dvisvgm --zoom=-1 --font-format=woff2 --bbox=papersize \
                                --page=1- --linkmark=none talk
```

As usual, run `latex` as often as needed to resolve internal references. Runs of `bibtex`/`biber` and `makeindex` may be necessary if the presentation contains citations or an index.

DRESDEN concept

HZDR HELMHOLTZ ZENTRUM DRESDEN ROSSENDORF

Part I

This is a Part page.

Frame Title
Frame Subtitle

Some math text:

$$E = mc^2 \tag{1}$$

$$\rho = \frac{m}{V} \tag{2}$$

$$\omega = \frac{\partial v}{\partial x} - \frac{\partial u}{\partial y} \tag{3}$$

$$\int_0^1 2x \, \mathrm{d}x = 1 \tag{4}$$

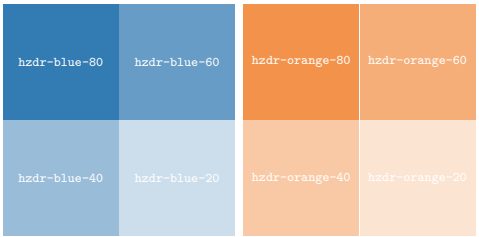
$$\log(a \cdot b) = \log a + \log b \tag{5}$$

Colours
(Primary)

Pre-defined, named colours are available and can be used with the usual colour commands, such as `\textcolor{<colour>}{...}`.

Primary colours

Primary colours at different saturations



Colours
(Secondary)

hzdr-gray-80	hzdr-gray-50	hzdr-gray-30

DRESDEN concept

HZDR HELMHOLTZ ZENTRUM DRESDEN ROSSENDORF

Part II

Videos and animations

(Available only in the SVG version.)

The End.

Thank you for your attention!