# Custom LATEX Beamer Theme: Foo is not bar but foo

A Modern Beamer Theme

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#### Overview

#### Motivation and Goal

- × Traditional Beamer theme looks too Classical
- We want newer one!

#### Previous research

Metropolis is cool modern theme but we need a little bit of pop

#### What we've found are ...

- 1 It's possible to design a Beamer theme
- We completely understood LaTeX (...just joking).

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## How to use this template

#### Preparation

- Fork this repository
- 2 Install LATEX and latexmk

#### Build pdf

Run make

slide.pdf should be generated

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## Your first slide

```
\documentclass[
 xetex, % Use XeTeX
 unicode,
  10pt
]{beamer}
\usepackage{sty/slide}
\title{Title of the slide}
\author{My Name}
\institute{My University}
\date{\today}
\begin{document}
\maketitle
\begin{frame}{Title of the frame}
 Body of the frame
\end{frame}
\end{document}
```

- You can set the font size(Now it's 10 pt)
- Start comments with %
- Each pages are called frames
   in Beamer

Some Templates

```
Use itemize to list things.
  \begin{itemize}
  \item This is the first item.
 \item This is the second item.
 \item This is the third item.
 \end{itemize}
\end{frame}
```

\begin{frame}{Title of the frame}

\begin{frame}{Title of the frame} Use enumerate if the order matters

\begin{enumerate} \item Do this first \item And then do that \end{enumerate} \end{frame}

#### Use **itemize** to list things

- This is the first item.
- This is the second item.
- This is the third item.

Use **enumerate** if the order matters

- Do this first
- And then do that

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## Bored with bullet points?

\begin{itemize}
\ngitem
Bullet points cannot show
the relation of the items
\thusitem
You may find it good to
use some extra symbols
\end{itemize}

- Bullet points cannot show the relation of the items
- → You may find it good to use some extra symbols

#### Custom \item Macros

- ✓ \okitem: OK!
- × \ngitem: NG
- → \thusitem: Thus, ...
- ♦ \butitem: But, ...
- E.g. \egitem: For example, ...

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## **Emphasize your key points!**

- Make sure to \emph{Emphasize} your key points <sup>1</sup>
- $^{2}$  \Emph{Use this} to empasize very important point  $^{2}$
- We have \EMPH{this command} for the very very important notes<sup>3</sup>

<sup>1</sup> let them to be bold

<sup>&</sup>lt;sup>2</sup>I defined customly

<sup>&</sup>lt;sup>3</sup>I defined customly

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## **Block, Definition, Examples**

\begin{block}{Title of the block}
Here is the body sentences of the
block. Notice foo is not bar!
\end{block}

```
\begin{definition}
  A prime number is \dots
\end{definition}

\begin{example}
  \begin{itemize}
  \okitem 2 is a prime number
  \okitem 3 is also a prime number
  \ngitem 4 is not a prime number
  \end{itemize}
\end{example}
```

#### Title of the block

Here is the body sentences of the block. Notice foo is not bar!

#### Definition

A prime number is ...

#### Example

- ✓ 2 is a prime number
- ✓ 3 is also a prime number
- × 4 is not a prime number

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## Source codes

```
\lstinputlisting[
language = tex
]{./fig/sample-10.tex}
```

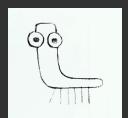
- You need to pass fragile as the option of frame
- There are a lot of options in the listings package

E.g. language, linewidth, . . .

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## **Inserting images**

\includegraphics[width = 3cm]{./fig/logo.jpg}



## **Equation**

$$x = a_0 + \frac{1}{a_1 + \frac{1}{a_2 + \frac{1}{a_3 + \frac{1}{a_4}}}}$$

 $\sqrt[n]{1+x+x^2+x^3+\cdots+x^n}$ 

(1)

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## **Change colors**

#### Set maincolor accentcolor to change the color theme

```
\definecolor{maincolor}{RGB}{210, 100, 130} % Setting the main color \definecolor{accentcolor}{RGB}{0, 170, 210} % Setting the accent color
```

- X Do not just use primary colors
- ✓ but cooler one! (You may like to google "Material Design, Color")

## Header and the progress bar

#### Header

The header can be eliminated if you add the following command

```
\setbeamertemplate{headline}{}
```

 $\checkmark\,$  You won't get the extra space on top if you write this before the first frame

## Progress Bar

You can eliminate Progress bar as follows:

```
\setbeamercolor{footline}{fg = backgroundcolor}
```

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## **Summary and future works**

## Summary

- It's possible to design Beamer theme
- LATEX too difficult (for me ...)

#### Future works

- Read the Beamer manual<sup>[1]</sup>
  - × IT'S TOO LONG ...
- Find someone who helps me with LATEX

#### References

- Vedran Miletić Till Tantau Joseph Wright. The beamer class. User Guide for version 3.60. Dec. 2020. URL:
  - http://tug.ctan.org/macros/latex/contrib/beamer/doc/beameruserguide.pdf (visited on 02/03/2021).