



THIS IS THE NORMAL LENGTH OF A RESEARCH PAPER: ALWAYS LONGER  
THAN YOU WOULD EXPECT

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## Outline

1. Aspect ratio
2. vfilleditems
3. Fonts
4. Color
5. Graphics
6. Footer options
7. Citations



## Aspect ratio

This pdf uses a 16:9 aspect ratio. To utilize this version, simply use:

```
\documentclass[aspectratio=169]{beamer}
```

The default is a 4:3 aspect ratio.

```
\documentclass{beamer}
```



## Using vfilleditems

Use the provided `\vfilleditems` environment to create nicely spaced bullet points.

```
\begin{vfilleditems}
  \item I like it to have my bullet points
  \item evenly spaced from one another
  \item then few bullet points, are not crammed on
  the upper part of the slide
\end{vfilleditems}
```



## Using vfilleditems

- I like it to have my bullet points
- evenly spaced from one another
- then few bullet points, are not crammed on the upper part of the slide



## Fonts

Fonts:

This is small

This is normal size

This is large

Per default the *Fira Font Package* is used. The *Helvetica Font* is also bundled into this package.



## Fonts

To use *Helvetica* instead of *Fira Fonts*

```
\usepackage[helvetica]{pureminimalistic}
```

To disable the *Fira Fonts* and use the default font

```
\usepackage[nofirafonts]{pureminimalistic}
```



## Color

To overwrite the theme color

1. Define a new color
2. redefine the themes color (before document begins)





## Change color example

```
\usetheme{pureminimalistic}
\definecolor{textcolor}{RGB}{0, 0, 120}
\definecolor{title}{RGB}{0, 0, 0}
\definecolor{footercolor}{RGB}{133, 133, 133}
\definecolor{bg}{RGB}{25, 116, 210}

\renewcommand{\beamertextcolor}{textcolor}
\renewcommand{\beamerbgcolor}{bg}
\renewcommand{\beamerfootertextcolor}{footercolor}
\renewcommand{\beamertitlecolor}{title}
```



## Dark mode

I've included a simple way to use a dark mode color theme. To use the dark color mode, provide the `darkmode` option.

```
\usepackage[darkmode]{pureminimalistic}
```

Sometimes, the logos have to be changed to look nice on a dark background. For now, I am simply loading different files if `darkmode` is used.



## Logos

Commands setting the logos:

- `\logotitle` – Command used for the title page. Here `\linewidth` corresponds to the entire paper width.
- `\logoheader` – Command used for the header. Here `\linewidth` corresponds to a smaller box, as the horizontal space is shared with the title.
- `\logofooter` – Command used for the footer. Here `\linewidth` corresponds to a smaller box, as the horizontal space is shared with the footer text.



## Logos – Load own logo

To use your own logos, simply redefine the commands and adjust the sizes.

```
\renewcommand{\logotitle}{\includegraphics%  
  [width=.2\linewidth]{alternative_logo/gameboy.png}}  
\renewcommand{\logoheader}{\includegraphics%  
  [width=.5\linewidth]{alternative_logo/gameboy.png}}  
\renewcommand{\logofooter}{\includegraphics%  
  [width=.15\linewidth]{alternative_logo/console.png}}
```



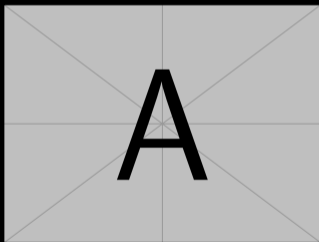
## Logos – Disable logo

To disable the logo, overwrite the default logo command with an empty command.

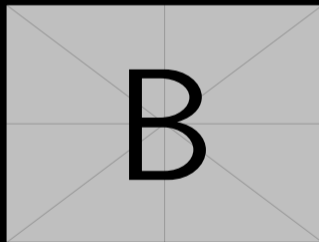
```
\renewcommand{\logofooter}{}
```

## Figures

I also changed the default caption settings to not include Figure: and reduced the font size.



Example A



Example B



## Figures – Set background watermark

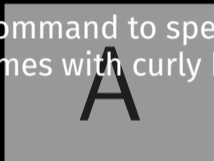
There is no extra option to define a background watermark, but here is a command that could be used to create one manually:

```
\setbeamertemplate{background}{%  
  \tikz[overlay,remember picture]%  
  \node[opacity=0.8]at (current page.center)%  
  {\includegraphics[width=.2\linewidth]%  
  {example-image-a}};%  
}
```



## Figures – Set background watermark

Usually you would add this command to specific frames by enclosing this command and all desired frames with curly brackets.



See the source code of this *\*.tex* file for an example.





## Disable footer

If you do not want to use a footer, disable it with:

```
\usetheme[nofooter]{pureminimalistic}
```



## Show max slide numbers

For these slides, I used the option to show the maximum number of slides. To activate it one has to activate it with:

```
\usetheme[showmaxslides]{pureminimalistic}
```

Usually, I prefer to not show the maximum number of slides, as the people tend to lose focus if they know the last few slides are shown.



## Citations

I've also changed the bibliography options to be minimalistic:  
Just showing a simple `\cite [1]`

- [1] Alex Krizhevsky et al. "ImageNet Classification with Deep Convolutional Neural Networks". In: *Advances in Neural Information Processing Systems 25*. Curran Associates, Inc., 2012, pp. 1097–1105.

Backup Slides



## What happened to the page numbering?

- I've used the `appendixnumberbeamer` package, which resets the frame counting after calling `\appendix`
- Depending on the used pdf viewer, the total count of frames shouldn't include the backup slides and won't demotivate the audience.
- Usually, I would use a `plain` frame for the backup slides.