

# THE UNINA BEAMER THEME

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A beamer theme by  
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# INTRODUCTION

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## WHY THE UNINA BEAMER THEME?



- ▶ I created this theme for my M.Sc. thesis presentation at the University of Naples, Federico II.

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## WHY THE UNINA BEAMER THEME?



- ▶ I created this theme for my M.Sc. thesis presentation at the University of Naples, Federico II.
- ▶ The theme is based on the **AAU Simple** beamer theme by **Jesper Kjær Nielsen**.

# INSTALLATION

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The theme consists of five files

1. `beamerthemeUniNA.sty`
2. `beamerinnerthemeUniNA.sty`
3. `beamerouterthemeUniNA.sty`
4. `beamercolorthemeUniNA.sty`
5. `beamerfontthemeUniNA.sty`

The theme can either be installed for local or global use.

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## Local Installation

The simplest way of installing the theme is by placing the five theme files in the same folder as your presentation.



# INSTALLATION



## Global Installation

- ▶ If you wish to make the theme globally available, you must put the files in your local LaTeX directory tree. The location of the root of the local directory tree depends on the operating system and the LaTeX distribution.
- ▶ Refer to your distribution's documentation for details.



# INSTALLATION

## REQUIRED PACKAGES

Of course, you have to have the Beamer class installed. In addition, the theme loads the following packages:

- ▶ TikZ<sup>1</sup>;
- ▶ calc, fp, adjustbox, setspace, transparent.

These packages are very common and should therefore be included in your LaTeX distribution.

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<sup>1</sup>By the way, TikZ is an awesome package for creating beautiful graphics, and this is a footnote.

# **USER INTERFACE**



# USER INTERFACE

## LOADING THE THEME AND THEME OPTIONS

### The Presentation Theme

It is very simple to load the presentation theme. Just type

```
\usetheme[<options>]{UniNA}
```

which is exactly the same way other beamer presentation themes are loaded. The presentation theme loads the inner, outer, color and font UniNA theme files and passes the <options> on to these files.

# USER INTERFACE

## THEME OPTIONS



## Theme options

The following options are available:

- ▶ `rotationcw`: set the direction of the rotation of the progress circle to clockwise instead of counterclockwise.
- ▶ `sectionpages`: show section pages.
- ▶ `logo`: used to specify the path to the logo to use in the upper right corner.

# USER INTERFACE

## MODIFYING THE THEME



- ▶ You can modify specific elements of the theme through the templates provided by the beamer class. Please refer to the beamer user manual for instructions.

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## MODIFYING THE THEME



- ▶ You can modify specific elements of the theme through the templates provided by the beamer class. Please refer to the beamer user manual for instructions.
- ▶ For example, on this rather bizarre-looking slide the following commands have been used:

```
\setbeamercolor{UniNA}{fg=blue!50,bg=green!60}  
\setbeamercolor{structure}{fg=red}  
\setbeamercolor{frametitle}{use=structure,fg=structure.fg}  
\setbeamercolor{itemize/enumerate body}{fg=white,bg=red}  
\setbeamercolor{normal text}{fg=white}  
\setbeamercolor{alerted text}{fg=blue}  
\setbeamercolor{background canvas}{bg=purple!50}
```

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  2. compile `logo/logo-federico-II.tex` with `xelatex`;

# USER INTERFACE

## MODIFYING THE THEME



- ▶ If you want to change the main colour and need a matching Federico II logo, you can compile your own as follows:
  1. change the definition of `logocolor` in `logo/logo-federico-II.tex` accordingly to your needs;
  2. compile `logo/logo-federico-II.tex` with `xelatex`;
- ▶ With your version of the logo in place, you can change the value of the `logo` parameter to the path of your own logo.

This is a frame with no header thanks to the `plain` option.

# UNNUMBERED FRAME

SUBTITLE



This is a frame not contributing to the frame count, thanks to the `noframenumbering` option.



# MATH AND BLOCKS

## TEST MATH AND BLOCKS

The following text is alerted in the next slide. Now some math mode:  
if  $R = \{x \mid x \notin x\}$ , then  $R \in R \Leftrightarrow R \notin R$ .

### Observation

This is an observation.

### Example 14

This is a nice example block.

### Beware!

Naive set theory is *a wolf in sheep's clothing?*



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### Beware!

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# STANDOUT FRAMES



The UniNA beamer theme supports standout frames. For example, the following

```
\begin{frame}[plain,noframenumbering]
\standoutpage{This is a dark standout frame!}
\end{frame}
```

```
\begin{frame}[plain,noframenumbering]
\standoutpagelight{This is a light standout frame!}
\end{frame}
```

produces the following two slides.



This is a dark standout frame!

This is a light standout frame!



## Widescreen Support

Newer projectors and almost any modern TV support a widescreen format such as 16:10 or 16:9. Beamer ( $\geq$  v. 3.10) supports various aspect ratios of the slides. According to section 8.3 on page 77 of the Beamer user guide v. 3.10, you can write

```
\documentclass[aspectratio=1610]{beamer}
```

to get slides with an aspect ratio of 16:10. You can also use 169, 149, 54, 43 (default), and 32 to get other aspect ratios.

# BIBLIOGRAPHY

## INSERT BIBLIOGRAPHIC REFERENCES



- ▶ To include a bibliography, you can use:  
`\printbibliography[heading=none]` in a slide with  
`allowframebreaks`.
- ▶ Cite items as usual, e.g.: [2, 5]
- ▶ Thanks to Taha Ahmet (@solarchemist)!
- ▶ An example is shown in the next slide.



# BIBLIOGRAPHY I

- [1] Harold Abelson and Gerald Jay Sussman. *Structure and interpretation of computer programs*. The MIT Press, 1996.
- [2] Edsger W. Dijkstra. “The humble programmer”. In: *Communications of the ACM* 15.10 (1972), pp. 859–866.
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- [5] Leslie Lamport and Susan Owicki. “Proving liveness properties of concurrent programs”. In: *ACM Transactions on Programming Languages and Systems* 4 (1982).
- [6] Larry R Medsker and LC Jain. “Recurrent neural networks”. In: *Design and Applications* 5.64-67 (2001), p. 2.

## BIBLIOGRAPHY II



- [7] Sergio Segura et al. “A survey on metamorphic testing”. In: *IEEE Transactions on software engineering* 42.9 (2016), pp. 805–824.

**Thank you for your time!**