

UNIVERSITY OF YOURCOLLEGE



thesis title

Supervisor  
*supervisor*

Candidate  
*your name*

March 1, 2022

# Introduction

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Lehmann et al. (2005)

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- Beamer is a  $\text{\LaTeX}$  class that allows you to create presentations
- Beamer2Thesis is a Beamer package that allows you to create a presentation for your thesis
  - with specific dedicated commands
  - it uses TorinoTh, a Beamer Theme

## UnicamTh theme

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- This theme is unofficial one and modifies the directory structure, logo and colors.

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  - <http://blog.barisione.org/2007-09/torino-a-pretty-theme-for-latex-beamer/>
- This theme is unofficial one and modifies the directory structure, logo and colors.
- The original theme was developed by Fiandrino Claudio and can be found here:  
<https://www.overleaf.com/latex/templates/beamer2thesis-2-dot-2-theme-for-beamer-english-version/ymxnnrqbmjpcj>

## Project structure

---

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  - *theme* folder that has sty files
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  - *beamer2thesis.sty* is the main file

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  - *beamerfontthemeunicamth.sty* defines fonts used
  - *beamerinnerthemeunicamth.sty* defines the title page and items
  - *beamerouterthemeunicamth.sty* defines headers and footers
  - *beamerthemeUnicamTh.sty* include all definitions

## How to read the guides

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- All guides show options in general; to have a look for specific configurations, read each guide because in each one is reported its own configuration state

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- All guides show options in general; to have a look for specific configurations, read each guide because in each one is reported its own configuration state
- Every time something is declared to be *default*, it is possible to omit it from the configuration phase
- Every time an option is enabled by setting it with *true*, to disable it you can use *false*; for example:

```
secondcandidate=false
```

```
secondcandidate=true
```



## The configuration phase

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- The general code is `\usetheme[... options ...]{TorinoTh}`
- An example is:

```
\documentclass{beamer}  
\usetheme[language=english,  
          titlepagelogo=logopolito,  
          bullet=circle,  
          pageofpages=of,  
          titleline=true,  
          color=blue  
]{TorinoTh}
```

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---

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- The *titlepagelogo* is the name of the principal logo: it must be a .jpg, .pdf, .png picture

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  - the default is *false*
- The *titlepagelogo* is the name of the principal logo: it must be a .jpg, .pdf, .png picture
  - to include the logo of your University, follow the procedure explained in the following slide

## How insert a new logo

---

There are several ways to do it (for people highly capable in  $\text{\LaTeX}$  this is not a problem), but I suggest this method:

- download from my page the .zip file and extract it

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- download from my page the .zip file and extract it
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There are several ways to do it (for people highly capable in  $\text{\LaTeX}$  this is not a problem), but I suggest this method:

- download from my page the .zip file and extract it
- copy your logo into the directory of the package
- install the package in your personal tree following the guide reported in slide ??

## Other options: available bullets

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  - square: a filled square (■) for first and third level items, an empty square (□) for second level items
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  - triangle: a filled triangle (▶) for first and third level items, an empty triangle (▷) for second level items
  - circle: a filled circle (●) for first and third level items, an empty circle (○) for second level items

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  - triangle: a filled triangle (▶) for first and third level items, an empty triangle (▷) for second level items
  - circle: a filled circle (●) for first and third level items, an empty circle (○) for second level items
  - The default value is circle

# Languages

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- To set the italian language, for example, use in the configuration phase: `language=italian`; the name should be the one used by the package `babel` or by `\setmainfont` with  $\text{\LaTeX}$

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  - english
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- To set the italian language, for example, use in the configuration phase: `language=italian`; the name should be the one used by the package babel or by `\setmainfont` with  $\text{\LaTeX}$
- If the language selected is not one of the two main languages, then labels in the titlepage should be introduced by the user (see the example in the next frame)

## Languages (II)

---

- Example with spanish language:

```
\usetheme[language=spanish,...]{TorinoTh}  
\setrellabel{Relator Tesis}  
\setcandidatelabel{Candidato}  
\setassistentsupervisorlabel{Co Tesis}  
\setsubject{Tesis}
```

## Languages (II)

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- Example with spanish language:

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\usetheme[language=spanish,...]{TorinoTh}  
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- Commands illustrated are mandatory when *not using* a main language

## Languages (II)

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- Example with spanish language:

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\setassistentsupervisorlabel{Co Tesis}  
\setsubject{Tesis}
```

- Commands illustrated are mandatory when *not using* a main language
- If you have already set a language and you change, it may happen that, the first time you compile, this error occurs:

*! Package babel Error: You haven't loaded the option -language-yet*

do not be afraid and compile a second time: it will work!!

# Coding

---

To avoid forcing an user to use the utf8x coding, this release fix the bug by introducing the *coding* option; possible choices you can exploit are:

- coding=utf8x (default)

An important advise: the program does not check which string you put in input; it is your matter select the right coding to satisfy requeriments of your system.

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- `coding=utf8x` (default)
- `coding=utf8`

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- `coding=utf8`
- `coding=latin1`

An important advise: the program does not check which string you put in input; it is your matter select the right coding to satisfy requeriments of your system.



## Second logo

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- When *secondlogo* is set to *true*, you have to use the command `\titlepagessecondlogo{name-logo}`: otherwise an error occurs

## Second logo

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- If, for some reasons, someone needs a second logo (a thesis performed in another institute for example) an option allows you to put it in the title page
- When *secondlogo* is set to *true*, you have to use the command `\titlepagessecondlogo{name-logo}`: otherwise an error occurs
- As the main logo, the second logo must be a .jpg, .pdf, .png picture and you can insert it following the same rules explained in slide 9

## Third logo

---

- Eventually, if you need a third logo you can exploit the possibility of insert it by setting the option *thirdlogo* to *true*

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  - the default is *false*
- You have to insert the picture as described for the second logo and use the command `\titlepagethirdlogo{name-logo}` to put the logo in the title page

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- You have to insert the picture as described for the second logo and use the command `\titlepagethirdlogo{name-logo}` to put the logo in the title page
- Of course, you can use this option if, and only if, the *secondlogo* is set to *true*

## Third logo

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- Eventually, if you need a third logo you can exploit the possibility of insert it by setting the option *thirdlogo* to *true*
  - the default is *false*
- You have to insert the picture as described for the second logo and use the command `\titlepagethirdlogo{name-logo}` to put the logo in the title page
- Of course, you can use this option if, and only if, the *secondlogo* is set to *true*
- When there are three logos please use, as reference for the dimensions, the picture *logopolito*: in this way they will be aligned



## Second candidate

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- It is possible that there are two candidates: the package manager manages this fact easily

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  - the first candidate is also the author
  - the second candidate can be inserted with the command `\secondcandidate{name-surname}` when the option *secondcandidate* is set to *true*

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- It is possible that there are two candidates: the package manage this fact easily
  - the first candidate is also the author
  - the second candidate can be inserted with the command `\secondcandidate{name-surname}` when the option *secondcandidate* is set to *true*
- Of course, when there are two candidates the label *Candidate* becomes *Candidates* and *Candidato* become *Candidati*

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  - the first candidate is also the author
  - the second candidate can be inserted with the command `\secondcandidate{name-surname}` when the option *secondcandidate* is set to *true*
- Of course, when there are two candidates the label *Candidate* becomes *Candidates* and *Candidato* become *Candidati*
- With two candidates, the footer changes and the author is not shown automatically (the reason is simply: show two authors plus the title is too much long, making the footer too big)

## Supervisor and Assistant Supervisor

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- There is also the possibility of report the Assistant supervisor:
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# Supervisor and Assistant Supervisor

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- To insert the supervisor you just have to use the command `\rel{name-surname}`
- There is also the possibility of report the Assistant supervisor:
  - set the option *assistantsupervisor* to *true* (default is *false*)
  - use the command `\assistantsupervisor{name-surname}`

# Supervisor and Assistant Supervisor

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- To insert the supervisor you just have to use the command `\rel{name-surname}`
- There is also the possibility of report the Assistant supervisor:
  - set the option *assistantsupervisor* to *true* (default is *false*)
  - use the command `\assistantsupervisor{name-surname}`
- Labels are set accordingly to the language used

## Second Supervisor and Assistant Supervisor

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There is also the possibility of insert more than one supervisor and assistant supervisor:

- set the options:

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- name can be inserted thanks to:
  - `\secondsupervisor` command;

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There is also the possibility of insert more than one supervisor and assistant supervisor:

- set the options:
  - *secondsupervisor* to true (default is false);
  - *secondassistantsupervisor* to true (default is false);
- name can be inserted thanks to:
  - `\secondsupervisor` command;
  - `\secondassistantsupervisor` command; this one can be exploited just when the *assistantsupervisor* option is set to true;



## Second Supervisor and Assistant Supervisor

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There is also the possibility of insert more than one supervisor and assistant supervisor:

- set the options:
  - *secondsupervisor* to true (default is false);
  - *secondassistantsupervisor* to true (default is false);
- name can be inserted thanks to:
  - `\secondsupervisor` command;
  - `\secondassistantsupervisor` command; this one can be exploited just when the *assistantsupervisor* option is set to true;
- as usual, labels are set accordingly to the language used

## Advantages and Disadvantages

---

Sometimes it is useful highlight advantages and disadvantages of a given argument: instead of list them by using the standard bullet, there is the possibility of exploit two new environments (*adv* and *disadv*). Usage:

In the following slide there is an example.

## Advantages and Disadvantages

---

Sometimes it is useful highlight advantages and disadvantages of a given argument: instead of list them by using the standard bullet, there is the possibility of exploit two new environments (*adv* and *disadv*). Usage:

```
\begin{adv}  
  \item  
\end{adv}
```

In the following slide there is an example.

## Advantages and Disadvantages

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Sometimes it is useful highlight advantages and disadvantages of a given argument: instead of list them by using the standard bullet, there is the possibility of exploit two new environments (*adv* and *disadv*). Usage:

```
\begin{adv}  
\item  
\end{adv}
```

```
\begin{disadv}  
\item  
\end{disadv}
```

In the following slide there is an example.

# Why use Beamer2Thesis

---

Advantages:

- ✓ Simply to install

Disadvantages:

# Why use Beamer2Thesis

---

## Advantages:

- ✓ Simply to install
- ✓ Easy to customize

## Disadvantages:

# Why use Beamer2Thesis

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## Advantages:

- ✓ Simply to install
- ✓ Easy to customize
- ✓ Possibility to exploit several features

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## Advantages:

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- ✗ Difficulty with long titles



# Why use Beamer2Thesis

---

## Advantages:

- ✓ Simply to install
- ✓ Easy to customize
- ✓ Possibility to exploit several features

## Disadvantages:

- ✗ Difficulty with long titles
- ✗ If you find some others, please contact me

## Finally: colors

---

- There are three possible choices:

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---

- There are three possible choices:
  - blue

## Finally: colors

---

- There are three possible choices:
  - blue
  - green

## Finally: colors

---

- There are three possible choices:
  - blue
  - green
  - red

## Finally: colors

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- There are three possible choices:
  - blue
  - green
  - red
- When the color is chosen setting the option *color* to one of the list above, consequently headers, footers, title page, bullet and highlightings are set accordingly

## Finally: colors

---

- There are three possible choices:
  - blue
  - green
  - red
- When the color is chosen setting the option *color* to one of the list above, consequently headers, footers, title page, bullet and highlightings are set accordingly
- For example: `color=green`

## X<sub>3</sub>LaTeX

---

Thanks to a suggestion and the precious help of Nicola Tuveri, Beamer2Thesis supports X<sub>3</sub>TeX and X<sub>3</sub>LaTeX automatically. You can choose your favourite font to further customize the presentation. I report some examples:

*Uncomment following lines of code if you use X<sub>3</sub>LaTeX!*



## X<sub>Y</sub>LaTeX: code

---

To realize the examples reported in the previous slide, the code is:

```
\fontspec[Ligatures={Common, Historical}]{Linux Libertine O Italic}
\fontsize{12pt}{18pt}\selectfont This is quite strange!
\fontspec{TeX Gyre Pagella}
\selectfont{Also this is strange}\\
\fontspec{TeX Gyre Pagella}
\selectfont{How to customize fonts?}\par
\fontspec[ SizeFeatures={
{Size={-10}, Font=TeX Gyre Bonum Italic, Color=AA0000},
{Size={10-14}, Color=00AA00},
{Size={14-}, Color=0000FA}}]{TeX Gyre Chorus}
\begin{itemize}
  \item {\LARGE Word}
  \item Word
  \item {\tiny World}
\end{itemize}
```

## Block: code

---

The previous slide has been realized as:

```
\begin{block}<1->{Why use Beamer2Thesis? Advantages}
\begin{adv}
\item Simply to install
\item Easy to customize
\item Possibility to exploit several features
\end{adv}
\end{block}
\begin{block}<2->{Why use Beamer2Thesis? Disadvantages}
\begin{disadv}
\item Difficulty with long titles
\item If you find some others, please contact me
\end{disadv}
\end{block}
```

## Block: code (II)

---

More in general, Beamer provide three *block* environments:

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To have more details, not only on this argument, I suggest to read the `beameruserguide`.

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## Block: code (II)

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More in general, Beamer provide three *block* environments:

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- *alertblock*
- *exampleblock*

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# Configuration

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  - `bullet=circle`
  - `pageofpages=of`
  - `titleline=true`

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  - `language=english`
  - `coding=utf8x`
  - `titlepagelogo=name-of-the-logo`
  - `bullet=circle`
  - `pageofpages=of`
  - `titleline=true`
  - `color=blue`

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  - `bullet=circle`
  - `pageofpages=of`
  - `titleline=true`
  - `color=blue`
  - `secondcandidate=false`

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  - `pageofpages=of`
  - `titleline=true`
  - `color=blue`
  - `secondcandidate=false`
  - `secondlogo=false`
- Most of them, actually everyone except the *titlepagelogo*, can be omitted if there are no modifications



## Behavior of alerts

---

Each color theme requires different colors to highlight words. To insert alerts by using the *itemize* environment, you can exploit:

```
\begin{itemize}  
\item<+--| alert@+> Apple  
\item<+--| alert@+> Peach  
\end{itemize}
```

For example:

- Apple

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For example:

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## Another way to highlight words

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If you want to highlight your text out of the environment *itemize*, Beamer2Thesis offers you the following possibilities:

- the standard command `\alert{text}`: it simply highlights your **text**

Of course, the color used, is set accordingly to your choice in the configuration phase.

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- the command `\highlightbf{text}`: it highlights your **text** setting it in bold

Of course, the color used, is set accordingly to your choice in the configuration phase.

## Highlighting formulas

---

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- The adaptation of colors to the theme could be done in this way:

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\hfsetfillcolor{alerted text.fg!10}  
\hfsetbordercolor{alerted text.fg}
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```

- *Two compilation runs* are required to get the right result!
- Read the package documentation to find more options; an example will be provided in the next frame.

## Highlighting formulas (II)

---

- Example:

$$x + y = 10$$

## Highlighting formulas (II)

---

- Example:

$$x + y = 10$$

- Code:

```
\[\tikzmarkin<2->{a}x+  
  \tikzmarkin<1>{b}y\tikzmarkend{b}  
=10\tikzmarkend{a}\]
```

## The output

---

The pdf generated, has automatically, some properties:

- the title

This is possible thanks to the available options of hyperref. To create references in the text, use:

# The output

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The pdf generated, has automatically, some properties:

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The pdf generated, has automatically, some properties:

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  - Thesis Presentation by using the english language

This is possible thanks to the available options of hyperref. To create references in the text, use:

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The pdf generated, has automatically, some properties:

- the title
- the name of the author
- the subject:
  - Thesis Presentation by using the english language
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This is possible thanks to the available options of hyperref. To create references in the text, use:



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---

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- `\label{name-reference}` in the starting point

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- `\label{name-reference}` in the starting point
- `\ref{name-reference}` in the point you want to show the reference
- `\href{url}{name-url}` to specify web addresses

## Suggestions

---

- To realize a frame it is possible use the environment *frame* with top (t), center (c) or bottom (b) alignment: I suggest you to use the top alignment; this is the basic code:

```
\begin{frame}[t]{title-of-the-frame}  
text  
\end{frame}
```

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```
\begin{frame}[t]{title-of-the-frame}
```

```
text
```

```
\end{frame}
```

- To make things easier, it has been introduced a new environment which is able to have the top property property intrinsic:

```
\begin{tframe}{title-of-the-frame}
```

```
text
```

```
\end{tframe}
```

## Suggestions (II)

---

- To realize the titlepage with all options, it has been introduced the command `\titlepageframe`

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---

- To realize the titlepage with all options, it has been introduced the command `\titlepageframe`
  - Of course, it is also possible to use the *standard* approach

```
\begin{frame}[plain]
\titlepage
\end{frame}
```

## Suggestions (II)

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- To realize the titlepage with all options, it has been introduced the command `\titlepageframe`
  - Of course, it is also possible to use the *standard* approach`\begin{frame}[plain]``\titlepage``\end{frame}`
  - In this case **do not** provide a title for the frame



## Suggestions (II)

---

- To realize the titlepage with all options, it has been introduced the command `\titlepageframe`
  - Of course, it is also possible to use the *standard* approach`\begin{frame}[plain]``\titlepage``\end{frame}`
  - In this case **do not** provide a title for the frame
- If you have to insert some code using *verbatim* or *listings* **do not exploit** *tframe* environment, but:`\begin{frame}[t,fragile]{title-of-the-frame}``\verb!code!``\end{frame}`

## Suggestions (III)

---

- If the title does not fit in the footer box, it is possible to exploit the so called *shorttitle*; an example:

```
\title[short title]{Long title of the thesis}
```

In this way the long title is just placed in the titlepage.

## Suggestions (III)

---

- If the title does not fit in the footer box, it is possible to exploit the so called *shorttitle*; an example:

```
\title[short title]{Long title of the thesis}
```

In this way the long title is just placed in the titlepage.

- In case there are more than two supervisors or assistantsupervisors, I suggest you to insert them through commands reported in 17 and separate names thanks to a comma.

## Reference

---

E. L. Lehmann, J. P. Romano, and G. Casella. *Testing statistical hypotheses*, volume 3. Springer, 2005.