

```

\subsubsection =
\long macro:->\@startsection {subsubsection}{3}{\z@ }{-3.25ex\@plus -1ex
\@minus -.2ex}{0.5ex \@plus .2ex}{\sffamily \normalsize \mdseries }

```

Paris-thesis packages bundle

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Abstract

The `Paristhesis` bundle is a kind of YATHT¹, that adds a new element to the almost countless variants that can be found on CTAN or elsewhere on the Internet². Unlike many alternative solutions, it deeply rely on the standard `book` class and neither KOMA-script nor MEMOIR. It provides a number of tools that either approximate French typography or facilitate specific tasks for French doctoral theses, taking into account that most French universities do not provide binding rules on the format of my thesis, with the notable exception of cover pages

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Introduction


As it contains a large set of packages, that mostly work only with the standard `book` class, this bundle would deserve the creation of a class, that could be done in the future if users request it. However, it seemed preferable to the author to keep it in the form of separate packages in order to preserve the modularity. In this way, the (eight) packages, which have been carefully made compatible as a whole, can be loaded or not depending on the end user's choice. They are also assumed to work whether or not one chooses to use `hyperref` and/or `babel`³

¹YATHT=Yet another (PhD) thesis template

²Not to mention all the templates, most of them obsolete, that are lying around in the laboratories

³Only the `french` and `english` options have been tested.

1 The five packages `preamb-***`

All of these packages heavily rely on the packages `etoolbox` and `kvoptions`.
 The description below lists only the packages directly loaded, but not their dependencies.
 The star `*` denotes packages conditionally loaded depending on options selected.
 The  means that the corresponding setting can be overridden after package loading.

1.1 Package `preamb-util`

This package loads many utilities packages, and is essential for the others to function properly.

Packages loaded

The list of packages loaded by `preamb-util` is shown on table 1.

Table 1: Packages loaded by `preamb-util`

Name	Use
– <code>etoolbox</code>	% Many advanced functions using ϵ -tex
– <code>kvoptions</code>	% Handle key=value options
– <code>datetime2</code>	% Hour and time formatting and computation
– <code>eso-pic</code>	% Place elements in the background at arbitrary position
– <code>afterpage</code>	% Place items/command at the top of the next page
– <code>silence</code>	% Suppress some packages warnings
– <code>xstring</code>	% String parsing and manipulation
– <code>afterpackage</code>	% Load a package when another is loaded
– <code>ltxcmds</code>	% Provide latex 2 ϵ kernel commands
– <code>pdftexcmds</code>	% Provide pdfTeX primitives
– <code>setspace</code>	% If you need <code>\onehalfspacing</code> or <code>\doublespacing</code>

Options

None

1.2 Package `preamb-graph`

This package aims to ease the placement of graphics and their captions. It does not load any part of `PGF` in order to not overload the compilation for users which do not use them.

Packages loaded

The list of packages loaded by `preamb-graph` is shown on table 2.

Options



floatbarrier: *empty* or `section` or any option recognized by `placeins`.

Default: *empty* (`\FloatBarrier` is available but not automatically used).

Table 2: Packages loaded by `preamb-graph`

Name	Use
– <code>graphicx</code>	% The swiss-army knife for graphics inclusion
– <code>xcolor</code>	% Color definitions with options <code>svgnames</code> , <code>table</code> , <code>hyperref</code> , <code>pdftex</code>
– <code>pdfpages</code>	% Inclusion of selected pages of another PDF file
– <code>subcaption</code>	% Load <code>caption</code> and define <code>\subcaption</code> & environment <code>subfigure</code>
– <code>placeins</code> ★	% Defines the <code>\FloatBarrier</code> command.

Settings

- Defines French figure caption with `\captionsetup`. 
- Increase the `***fraction` ratios to ease the flat placement. 

1.3 Package `preamb-math`

Packages loaded

Name	Use
– <code>mathtools</code> ★	% loads <code>amsmath</code>
– <code>amssymb</code> , <code>bm</code> , <code>bbm</code>	% loads <code>amsfonts</code> with bold math and blackboard
– <code>icomma</code>	% comma as decimal separator (for french)
– <code>upgreek</code>	% greek upright letters for μ m and β -decay)

Options

<code>ams:</code>	Loads <code>amsmath</code> package (via <code>mathtools</code>).	(default: false)
<code>showonlyrefs:</code>	<code>mathtools</code> 's non-numbering of non-referenced equations.	(default: false)
<code>slantedgreekcaps:</code>	Slant the Greek capital letters ⁴ .	(default: false)

1.4 Package `preamb-titles`

The options in this package control the formatting of sectionning commands, the main goal being to set titles to `sffamily` (sasn-serif font).

Packages loaded

The following packages are loaded only if the corresponding option is set.

Name	% Use
– <code>titlesec</code> ★	% Titles customization.
– <code>minitoc</code> ★	% Provides small table of contents for each chapter.
– <code>slantsc</code>	% Slanted small caps in running header.

⁴The slanted version is like `\Gamma` → Γ but the upright version remains available with `\varGamma` → Γ .

Options

- titles:** To alter the titles with the package `titlesec`'s `\titleformat` or with `etoolbox`'s `\patchcmd`. (default: `patchcmd`)
- `empty` or option not set : does nothing
 - `titlesec` Modify titles by using `titlesec` package
 - `patchcmd` Modify titles by using `patchcmd` package
- romanchap:** Numbering of chapters with roman uppercase (default: false)
- alphsubsub:** Numbering of subsubsections with **a**), **b**)... (default: false)
- minitoc:** Loads package and prepare a minitoc per chapters (default: false)
- headings:** To alter the running headings. (default: empty)
- `empty` or option not set : does nothing.
 - `small` keeps the uppercased version bit reduces the font size.
 - `slansc` remove uppercase and use slanted small caps.
 - `smallsfbold` remove uppercase and use small bold sans-serif.

Settings

- Set `\pagestyle` to **headings** (the default for the standard `book` class).
- With `minitoc` Assumes that counter `\tocdepth` has been set *before* package loading and set `minitoc`'s depth to `\tocdepth+2`.
- Set the numbering by chapter for `equation`, `figure`, `table`.

1.5 Package *preamb-work*

This package loads or implement several tools that can be useful during the time you are writing your thesis. It must be commented out for the final version, or use the **final** option of document class to disable it's features (including not loading any package).

Packages loaded

Name	Use
- <code>lipsum</code> , <code>blintext</code> ★	% generate dummy text
- <code>showkeys</code>	% display in matgin the (normally hidden) <code>\labelkeys</code>

Options

None

Settings

- Set `blindtext` options to get an extended version when using its command `\Blinddocument`.
- Automatically append the day an compilation time in the bottom margin of each even (left) page.
- Setup `showkeys` to show only `\labels` and not `\refs` nor `\cites`.

Example:

Version compilée le 2021-05-27, à 12:21:21

2 Package citebackref

This very small package helps to include back references in the bibliography. It handles the different case whether or not `hyperref` and/or `babel` is used. It must be loaded after `babel` and before `hyperref`. It's output is in the `babel`'s default language (default to English) and features hyperlinks if relevant.

Packabe loaded

– Name	% Use
– <code>backref</code> ★	% Handle back references if <code>hyperref</code> not loaded
– <code>showkeys</code>	% display in margin the (normally hidden) <code>\labelkeys</code>

Options

None

3 Package versionswitch

3.1 Context and aim

The French regulation requires that thesis are presented in two versions:

- The so-called "diffusion" version, which must be strictly compliant with the copyright rules and therefore free of any third-party content for which the explicit authorization of the authors and the rights holder has not been obtained
- The so-called "archival" (en French «archivage»), which may contain such elements, but are necessarily restricted for distribution and reproduction

As the maintenance of two different versions of the same document, differing only by the fact that one is expurgated of some elements (mostly figures), is a tedious and error-prone task, it is interesting to have only one source file and to be able to switch easily from one mode to the other.

3.2 Use

This simplification is the purpose of the `versionswitch` package, which defines a dedicated environment, named `copyrighted`, in which the elements to be deleted must be enclosed.

- When the documents is compiled normally, or with the `\documentclass`'s options `archiv` one get the complete "archival" version.
- Oppositely, if one uses the option `diffus` or `diffusion`, the content of each `copyrighted` is replaced by a box of exactly the same size, ensuring that the surrounding part of the document is typeset in exactly the same way.

The option `diffusion` is somehow similar to the `draft` option, with important differences:

1. The overfull mark is not printed

2. Only some specific figures (or texts) are replaced by a box.
3. This box not only contains the name of the file but also the full bibliographic reference, including an hyper-link to the original work, if `hyperref` is loaded.

The bibliographic reference can be provided in two versions of the `copyrighted` environment.

First version

```
\begin{copyrighted}[option]{bibkey}
\begin{figure}[tbph]
...
\end{figure}
\end{copyrighted}
```

where `bibkey` is the BibTeX key of the corresponding reference (the corresponding `\cite` is also added in the figure `\caption`). This reference (the `\bibitem`) is extracted from the reference list as provided by BibTeX, by the mean of the `bibentry` package. This `bibentry` package is tightly linked with the `natbib` package, by the same author, which is very convenient to improve the formatting of the `\cite` in the text. Therefore, it is necessary to load the `natbib` package *prior* to the `versionswitch` package. The `bibentry` it self is loaded by `versionswitch`, and *should in no way* be loaded independently, as it would clash with `hyperref` or the `citebackref` package.

The optional argument `option` can be set to `option` in order to locally emulate the “diffusion” mode.

Second version

```
\begin{copyrighted}[option]{bibkey}[fullbibref]
\begin{figure}[tbph]
...
\end{figure}
\end{copyrighted}
```

In this version the `bibkey` is used only to provide the link to the bibliography, but the `bibentry` is not used. The second optional argument `fullbibref` must then provide the formatted content that must be put into the box.

3.3 Examples

The code of several examples is provided in the file `app-versionswitch.tex` included in the template.

4 Package thcover

This packages creates front- and back- cover pahes (1 & 4) according to the style prescribed by the university⁵. It also embeds the (user provided) metadata in the PDF file and can optionally create a PDF/A file.

Please refer to its own documentation.

⁵At time of writing (2021-05-27) the cover pages are implemented for the main universities in Paris Sorbonne Université (SU), Paris Sciences et Lettres (PSL), Université de Pais (UP) and Université Paris-Saclay (UPSaclay). Hence the name of the bundle. It’s extension would be rather straightforward

A Questions fréquentes

- L'option `french` de `babel` change les labels de `itemize` de `•` en `—` pour rededier à cela on dispose de trois méthodes au choix :
 1. Ajouter dans le *préambule* : `\frenchsetup{ItemLabels=\textbullet}`
 2. Ajouter dans le *préambule* : `\frenchsetup{StandardItemLabels=true}`
 3. Charger le paquet `enumitem` et ajouter dans le *préambule*, par exemple, `\setlist[itemize,1]{label=\textbullet}`. Noter que cette option est plus puissante car on peut aussi définir le label pour chaque liste.
- Cette page et les précédentes sont numérotées en chiffres romains. Pour changer cela mettre *juste après* `\frontmatter` : `\renewcommand\thepage{\arabic{page}}`.
- A la première page de `\mainmatter`, la numérotation recommence à 1. Pour changer cela mettre *juste avant* `\mainmatter`, `\renewcommand*\pagenumbering[1]{}`.
- Par défaut la table des matières et la bibliographie (et les `\listof<something>` et l'index éventuels) ne figurent pas dans la `toc`. Pour changer cela, le plus simple est de charger le paquet `tocbibind` (avec des options éventuelles pour exclure certains contenus) mais des méthodes options plus sophistiquées sont aussi disponibles, avec `\addcontentsline` (voir la source).