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L^AT_EX report template

Description of the L^AT_EX template for IMT Atlantique reports



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Contents

1	Project creation and compilation	3
1.1	Project creation	3
1.2	Compilation	3
2	Packages	3
2.1	anyfontsize	4
2.2	fancyhdr	4
2.3	float	4
2.4	fontenc	4
2.5	geometry	4
2.6	graphicx	4
2.7	inputenc	4
2.8	mdframed	4
2.9	minted	4
2.10	pdfpages	4
2.11	tikz	4
2.12	titling	4
3	Commands	4
3.1	Generic commands	4
3.1.1	Metadata commands	4
3.2	imta commands	4
3.2.1	Typeset inline code with imtaInlinecode	4
3.2.2	Output the title page with imtaMaketitlepage	4
3.2.3	Answer questions with imtaQuestion and imtaQuestionReset	4
4	Environments	4
4.1	Generic environments	5
4.1.1	Typeset code listings with minted	5
5	IMT Atlantique styling	5

1 Project creation and compilation

1.1 Project creation

In order to use this template, create a new directory, and copy into it the following files:

- `imta.tex`: this file declares all the data that composes the template. It needs to be included to the main document, by calling `\include{imta}`.
- `titlepage.pdf`: the title page of the document. It is a blank version of the IMT Atlantique report template, over which an overlay title is written by the `\imtaMaketitlepage` command.

Your document should be a `.tex` file, with the following skeleton:

```

1 \documentclass{article}
2
3 \include{imta}
4
5 \author{Author name}
6 \date{Writing date}
7 \title{Document name}
8 \subtitle{Short description or subtitle}
9
10 \begin{document}
11
12 \imtaMaketitlepage
13
14 \section{First section}
15
16 ...
17
18 \end{document}
```

1.2 Compilation

This template is intended to be compiled with `pdflatex`. Furthermore, it makes use of the `minted` package. As a consequence, the compiler needs to be passed the `-shell-escape` flag. In addition, as usual when wishing a table of contents, the main document should be compiled twice, so as to make sure that the references refer to the right labels. If your main document is called `main.tex`, use the following command to compile it:

```
$ pdflatex -shell-escape main.tex
```

2 Packages

This template uses a number of packages, with specific options. Besides, some packages are further configured, through specific commands. These can be found in the source code itself, at the `PACKAGES SETTINGS` section. The following is an abstract from the `PACKAGES` section of the `imta.tex` file.

```

1 \usepackage[a4paper, margin=2cm, top=3cm]{geometry}
2 \usepackage{graphicx}
3 \usepackage{float}
4 \usepackage[T1]{fontenc}
5 \usepackage[utf8]{inputenc}
6 \usepackage{pdfpages}
7 \usepackage{fancyhdr}
```

```
8 \usepackage{minted}
9 \usepackage{tikz}
10 \usepackage{titling}
11 \usepackage{anyfontsize}
12 \usepackage{mdframed}
```

2.1 anyfontsize

2.2 fancyhdr

2.3 float

2.4 fontenc

2.5 geometry

2.6 graphicx

2.7 inputenc

2.8 mdframed

2.9 minted

2.10 pdfpages

2.11 tikz

2.12 titling

3 Commands

This template provides a handful of new commands.

3.1 Generic commands

3.1.1 Metadata commands

This template defines a `\subtitle` macro, that receives the subtitle of the document. The latter will be displayed on the title page. The purpose of this macro is to provide a consistent way of defining a subtitle, with regard to the `\title`, `\author`, and `\date` standard macros. It takes a single parameter, that is the subtitle to display.

3.2 imta commands

3.2.1 Typeset inline code with `imtaInlinecode`

3.2.2 Output the title page with `imtaMaketitlepage`

3.2.3 Answer questions with `imtaQuestion` and `imtaQuestionReset`

4 Environments

4.1 Generic environments

4.1.1 Typeset code listings with `minted`

5 IMT Atlantique styling

The official IMT Atlantique styling is not really \LaTeX -ish, and takes the decision to use a sans-serif font for body text. Therefore, I chose to use the default \LaTeX font settings, which look much more professional. Of course, this style does not suit the official report style. Thus, I decided to provide a command that enables that official style.

The main aspects of the official style are:

- Use of the Helvetica font for the body;
- Section titles in green (`\imtaGreen`) and other heading titles in gray (`\imtaGray`);
- Section title in the header (TO DO);
- Page number at the right corner of the footer.

For comparison, the default style of the template is:

- Use of the default Computer Modern font for the body;
- Default style for headings: all in black;
- Document title at the left corner and author's name at the right corner of the header;
- Page number at the center of the footer.

The official IMT Atlantique style can be toggled with the `\imtaSetIMTStyle` command. Since it makes use of the `\usepackage` macro, it needs to be called in the preamble. No way is provided to disable later in the document the official style. As a consequence, you cannot have half of the document with the official style, and the other half in the default style.