Les bases du LaTeX

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Résumé

The goal of this document is to present LaTeXbasics, by showing both commands and results for common uses/packages.

Table des matières

1 Encoding and language selection **3**
1.1 Usepackage 3
1.2 How to use 3
1.3 Results 3

2 Abtract **4**
2.1 Usepackage 4
2.2 How to use it 4
2.3 Result 4

3 Table of content **5**
3.1 Usepackage 5
3.2 How to use 5
3.3 Result 5

4 Introduction **6**
4.1 subsection azeazsdqs 6
4.2 subsection wx :ck,ms 6

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5 Listes **7**
5.1 listes à puce 7
5.2 environement description 7

6 Environement non formaté **8**

7 Extended Headers and footers (fancyhdr) **9**
7.1 Usepackage 9
7.2 Simple example 9
7.3 Redefining plain style 9

8 layout **10**

9 Polices **11**
9.1 Default 11
9.2 How to change sizes 11
9.3 Style 11
9.3.1 Graisse et italique 11

1 Encoding and language selection

1.1 Usepackage

```
\usepackage[T1]{fontenc} % police selection
\usepackage[utf8]{inputenc} % input encoding
\usepackage[french]{babel} % Language selection
```

1.2 How to use

Nothing special to do. Just use your choosed language as usual.

1.3 Results

é è ù à ô û ü...

2 Abtract

2.1 Usepackage

No needs for article class.

2.2 How to use it

```
\begin{abstract}
  Qu'est que c'est?. C'est une phrase français avant le lorem ipsum.
  Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobor-
  tis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent
  imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo,
  lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Viva-
  mus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor.
  Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipis-
  cing elit. Duis fringilla tristique neque. Sed interdum libero ut metus.
  Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet
  ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent
  lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris la-
  cinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan
  semper.
\end{abstract}
```

2.3 Result

Résumé

Qu'est que c'est?. C'est une phrase français avant le lorem ipsum. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

3 Table of content

3.1 Usepackage

No needs for article class.

3.2 How to use

Basic :

```
\tableofcontents
```

It is possible to change some parameters like the maximum allowed depth :

```
\setcounter{tocdepth}{4} % set TOC depth to 4
```

3.3 Result

Table des matières

4 Introduction

4.1 subsection azeazsdqs

Qu'est que c'est?. C'est une phrase français avant le lorem ipsum. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

4.2 subsection wx :ck,ms

Qu'est que c'est?. C'est une phrase français avant le lorem ipsum. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

5 Listes

5.1 listes à puce

- X chat
  1. chat 1
  2. chat 2
  3. chat 3
- X chien
- X singes
  - babouin
  - chimpanzée

5.2 environement description

chat boule de poils

chien boule de poils plus grosse Qu'est que c'est?. C'est une phrase français avant le lorem ipsum. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

6 Environement non formaté

```
\begin{itemize}
  \item chat
  \begin{enumerate}
    \item chat 1
    \item chat 2
    \item chat 3
  \end{enumerate}
  \item chien
  \item singes
  \begin{itemize}
    \item babouin
    \item chimpanzée
  \end{itemize}
\end{itemize}
```

7 Extended Headers and footers (fancyhdr)

7.1 Usepackage

```
\usepackage{fancyhdr} %extended Headers and footers
```

7.2 Simple example

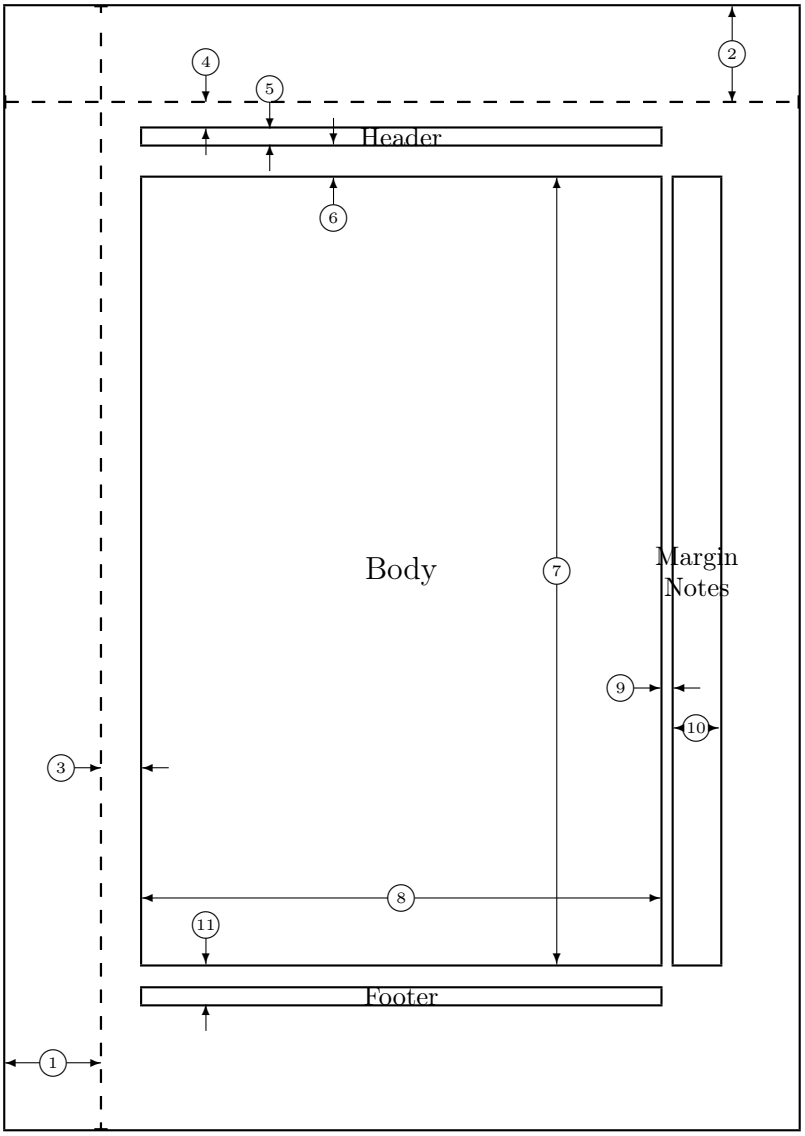
This is how to create the simple example you can see on this page.

```
\pagestyle{fancy}
\lhead{CoucouL}
\chead{CoucouCenter}
\rhead{CoucouR}
\lfoot{}
\cfoot{To: Dean A. Smith}
\rfoot{\thepage}
\renewcommand{\headrulewidth}{0.4pt}
\renewcommand{\footrulewidth}{0.4pt}
```

7.3 Redefining plain style

```
\fancypagestyle{plain}{%
\fancyhf{} % clear all header and footer fields
\fancyfoot[C]{\textbf{\thepage}} % except the center
\renewcommand{\headrulewidth}{0pt}
\renewcommand{\footrulewidth}{0pt}}
```

8 layout



1	one inch + \hoffset	2	one inch + \voffset
3	\oddsidemargin = 31.0pt	4	\topmargin = 20.0pt
5	\headheight = 14.49998pt	6	\headsep = 25.0pt
7	\textheight = 592.0pt	8	\textwidth = 390.0pt
9	\marginparsep = 10.0pt	10	\marginparwidth = 35.0pt
11	\footskip = 30.0pt		\marginparpush = 7.0pt (not shown)
	\hoffset = 0.0pt		\voffset = 0.0pt
	\paperwidth = 597.50787pt		\paperheight = 845.04684pt

9 Polices

9.1 Default

No needs

9.2 How to change sizes

`{\tiny text}`	
`{\normalsize text}`	text
`{\large text}`	text
`{\Large text}`	text
`{\LARGE text}`	text
`{\huge text}`	text

9.3 Style

9.3.1 Graisse et italique

`\textbf{gras}`	**gras**
`\textit{italique}`	*italique*
`\textbf{\textit{text}}`	***text***
`\textsl{slanted}`	*slanted*
`\textsc{Small Caps}`	Small Caps