

LATEX Template by LCS

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February 20, 2021

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1 Usage of template

1.1 Template for article

3 predefined templates are given in this template:

- LCSArticle, which is the basic template
- CSArticle, which is the template based on LCSArticle for CentraleSupélec
- BHArticle, which is the template based on LCSArticle for Beihang University.

The following code gives how this document is programmed

```
1 \documentclass[english]{LCSArticle}% english can be changed to french
2 \title{\LaTeX \ Template by LCS}
3 \author{$lcs_{27}$}
4
5 \begin{document}
6 \MakeContentTitle % \MakeSimpleTitle or \MakeComplateTitle are also usable
7 \end{document}
```

Up to know, only 2 languages (English, French) are available.

1.2 Predefined math formulas

Different kinds of formulas are predefined. For example:

```
1 \begin{theorem}
2 This is a theorem
3 \end{theorem}
```

Result:

Theorem 1.1. This is a theorem

```
1 \begin{lemma}
2 Given two line segments whose lengths are $a$ and $b$ respectively
          there is a real number $r$ such that $b=ra$.
3 \end{lemma}
4
5 \begin{proof}
6 To prove it by contradiction try and assume that the statement is false
    , proceed from there and at some point you will arrive to a
          contradiction.
7 \end{proof}
```

Result:

Lemma 1.1. Given two line segments whose lengths are a and b respectively there is a real number r such that b = ra.

Proof. To prove it by contradiction try and assume that the statement is false, proceed from there and at some point you will arrive to a contradiction. \Box



1 \begin{proposition}
2 This is a proposition
3 \end{proposition}

Result:

Proposition 1.1. This is a proposition

1 \begin{remark}
2 This is a remark
3 \end{remark}

Result:

Remark 1.1. This is a remark

1.3 Predefined simple formulas

Code	Formulas
$\operatorname{Deri}\{x\}\{y\}$ \$	$\frac{\mathrm{d}x}{\mathrm{d}y}$
\P \ParDeri{x}{y}\$	$\frac{\frac{\partial x}{\partial y}}{\frac{\mathrm{d}^3 x}{}}$
$PoriN\{x\}\{y\}\{3\}$ \$	$\frac{\mathrm{d}^3 x}{\mathrm{d} y^3}$
$$\operatorname{ParDeriN}\{x\}\{y\}\{3\}$$	$\frac{\frac{\mathrm{d}^3 x}{\mathrm{d}y^3}}{\frac{\partial^3 x}{\partial y^3}}$
\$\cst\$	constant
Φ \ CS t Φ	COIISCAIIC
\$\csts \$\vB\$	v
\	
\$\vB\$	$oldsymbol{v}$
\$\vB\$ \$\aB\$	$egin{array}{c} v \ a \end{array}$

Table 1 – predefiend math formulas

1.4 Shotcut

These shotcut are available:

● \TBF

Result:

TO BE FINISHED

1.5 Simplified Insert Image

To insert a simple image, we just need to type in

\InsertFigure{logos/margin.png}{50pt}{caption}{label}

Result:





Figure 1 – caption

2 Required Packages

Several packages are preloded in this template, the following code shows how they are loaded in the template:

```
1 %% Language Configuration
2 \RequirePackage[utf8]{inputenc}%For French accents
3 \RequirePackage[T1]{fontenc}%For French babel
4 \RequirePackage{ifthen}
6 %% Page
7 \RequirePackage{geometry}
8 \ge \text{geometry} \{a4paper, left=2.54cm, right=2.54cm, top=3.18cm, bottom=3.18cm\}
9 \RequirePackage{titlesec}
                               %Margin
11 %% Bibliography & Reference
12 \RequirePackage{natbib} %Bibliography
13 \RequirePackage{hyperref} %Reference
14 \RequirePackage{url} % Use url as reference
16 %% Math
17 \RequirePackage{amsmath}%Math formula
18 \RequirePackage{amsfonts}%Math fonts
19 \RequirePackage{amsthm}%Theorem-like structures
20 \RequirePackage{amssymb}%Math symbols
21 \RequirePackage{mathrsfs}%Math fonts
22 \RequirePackage{mathtools} %Math symbols
23 \RequirePackage{siunitx} %Notation scientific (Ex.: \num{2e+9})
25 %% Graph & Color
26 \RequirePackage{graphicx} %use graph format
27 \RequirePackage[justification=centering]{caption} %Graph caption
28 \RequirePackage{subcaption} %Graph sub-caption
29 \RequirePackage{float} %Graph Placement
30 \RequirePackage{epstopdf} %Convert EPS to PDF
31 \RequirePackage{xcolor} %Colors
32
34 %% Table
35 \RequirePackage{diagbox} %Diagonal in tables
  \RequirePackage{multirow} %Multirows
38 %% Programming
39 \RequirePackage{listings} %Programming
```