TITLE

Moncef Mahjoub[*]   Nabil Gmati[†]

Abstract: I speak english
Keyworlds: ≤ 5 words
Résume : Je parle français
Mots clés : ≤ 5 mots

1   Specifying the language

This is an example of a document for Picof. You should use \usepackage [??] {babel}, with the question marks are replaced by the language of your text. In this example, we have selected francais and english, so that we can typeset the text in both languages.

1.1   Cas du français

Pour les textes en français, vous pouvez mettre au début du document une ligne avec \usepackage [??] {babel}, où les points d'interrogation sont remplacés par francais ; vous pouvez aussi donner les deux langues, notez que la seconde langue dans la liste est la langue par défaut. Vous pouvez basculer en français via la commande \selectlanguage {francais}.

Vous pouvez dire événement ou \'ev\'enement, à condition de rester cohérent.

1.2   Cas de l'anglais

You can switch back to English by typing \selectlanguage {english}. If you omit the language specification, the default language, English will be selected.

2   Maths

Use the features provided by amsmath, for instance, evevironments split, align, gather etc.

Latex companion 8-2-7

$$\begin{aligned}
(a+b)^4 &= (a+b)^2(a+b)^2 \\
&= (a^2 + 2ab + b^2)(a^2 + 2ab + b^2) \\
&= a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4
\end{aligned} \tag{1}$$

Latex companion 8-2-11

$$D(a,r) \equiv \{z \in \mathbf{C} : |z-a| < r\}$$

$$\operatorname{seg}(a,r) \equiv \{z \in \mathbf{C} : \Im z < \Im a, \ |z-a| < r\} \tag{2}$$

$$C(E,\theta,r) \equiv \bigcup_{e \in E} c(e,\theta,r) \tag{3}$$

---

[*]ENIT–lamsin, moncef.mahjoub@lamsin.rnu.tn,

[†]ENIT–lamsin, nabil.gmati@ipein.rnu.tn

In a figure, you can put an image via the `\includegraphics` command. You can put more than one. If your file is called 'foo.ps' or 'foo.eps', just use 'foo' as argument to the command: LaTeX will add the extension automatically.

You can also put text, as is demonstrated here. Always use default arguments of the 'figure' environment. Never put a label before the caption: in this example `sec3` is a label to the current section.

Figure 1: My figure

1	2	3	4	5
2	4	6	8	10
1	2	9	16	25
1	4	27	256	3125

Table 1: My Table

Latex companion 8-2-2

$$\begin{matrix} 0 & 1 \\ 1 & 0 \end{matrix} \quad \begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix}$$

$$\begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix} \quad \begin{Bmatrix} 1 & 0 \\ 0 & -1 \end{Bmatrix}$$

$$\begin{vmatrix} a & b \\ c & d \end{vmatrix} \quad \begin{Vmatrix} i & 0 \\ 0 & -i \end{Vmatrix}$$

3   References

We can refer to equations (1), (2) or (3), and to sections 1, 2, subsections 1.1 and 1.2, as well as to the Figure 1 and Table 1.

4   Bibliography

We recommand to use bibtex. Use the `\cite` command like `\cite{companion2}`, `\cite{companionfr}` [2], [1].

4.1   External bibliography

Write a bibtex file, named for instance 'picof.bib', containing all references. Then add the following two lines at the end of your document. Run bibtex and latex as usual.

```
\bibliographystyle{plain}
\bibliography{picof}
```

Example of a bibliography file :

```
@Book{companion2,
  author =        {Frank Mittelbach and Michel Goossens and Johannes Braams
 and David Carlisle and Chris Rowley },
  title =         {The \LaTeX\ companion, second edition},
  publisher =     {Addison Wesley},
  year =          {2004},
}
@Book{companionfr,
```

```
  author =        {Frank Mittelbach and Michel Goossens},
  title =         {\LaTeX\ Companion},
  publisher =     {Pearson Education},
  year =          {2005},
  note = { Traduction française de  J. André,  B. Belet,  J.-C. Charpentier,
J.-M. Hufflen et Y. Soulet}
}
```

Do not forget to send the bib file together with the TeX file.

4.2 Embedded bibliography

You can also replace the two lines mentioned above by the result of bibtex. Here is an example:

```
\begin{thebibliography}{1}
\bibitem{companionfr}
Frank Mittelbach and Michel Goossens.
\newblock {\em \LaTeX\ Companion}.
\newblock Pearson Education, 2005.
\newblock Traduction française de J. André, B. Belet, J.-C. Charpentier, J.-M.
  Hufflen et Y. Soulet.

\bibitem{companion2}
Frank Mittelbach, Michel Goossens, Johannes Braams, David Carlisle, and Chris
  Rowley.
\newblock {\em The \LaTeX\ companion, second edition}.
\newblock Addison Wesley, 2004.

\end{thebibliography}
```

References

[1] Frank Mittelbach and Michel Goossens. *LaTeX Companion*. Pearson Education, 2005. Traduction française de J. André, B. Belet, J.-C. Charpentier, J.-M. Hufflen et Y. Soulet.

[2] Frank Mittelbach, Michel Goossens, Johannes Braams, David Carlisle, and Chris Rowley. *The LaTeX companion, second edition*. Addison Wesley, 2004.