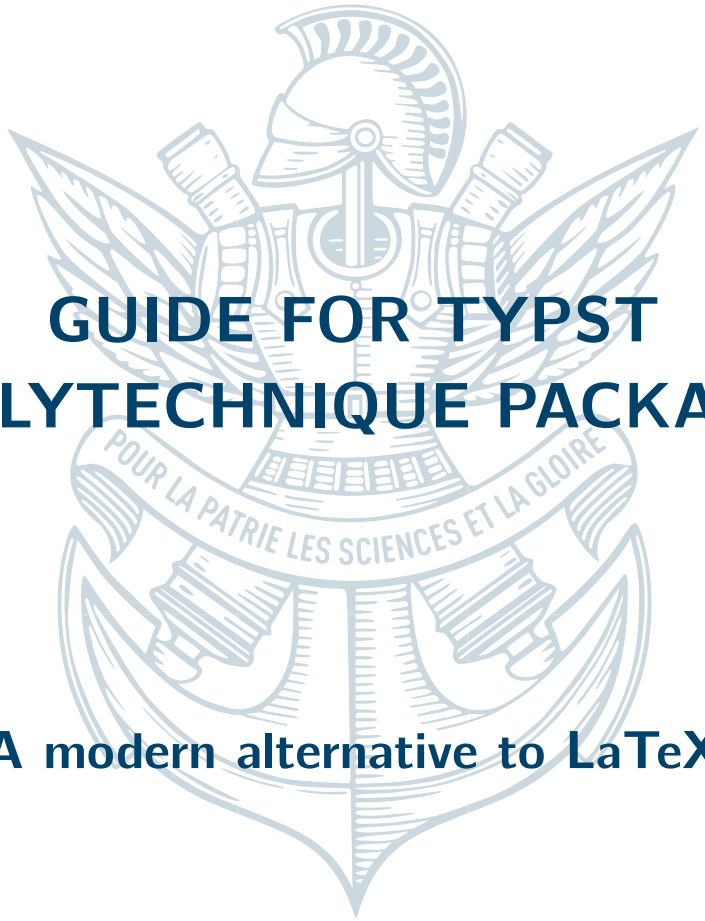

GUIDE FOR TYPST POLYTECHNIQUE PACKAGE

A modern alternative to LaTeX

July 2024 - August 2024

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GUIDE CONTENT

1 - DISCOVERING TYPST AND THE TEMPLATE

Typst rendering :

> Typst is a user-friendlier alternative to LaTeX. Check out this pdf source to see how it was generated.

Source code :

```
Typst is a user-friendlier alternative to LaTeX. Check out #link("https://github.com/remigerme/typst-polytechnique/blob/main/guide.typ")[this pdf source] to see how it was generated.
```

1.1 - Headings

Typst rendering :

> ### 1.1.1 • Level 3 heading

Source code :

```
=== Level 3 heading
```

Use only one (resp. two) = for level 1 (resp. 2) heading (and so on).

Typst rendering :

> ### • Level 3 heading without numbering
>
> **1.1.1.1 - Level 4 heading**

Source code :

```
#heading(level: 3, numbering: none)[Level 3 heading without numbering]
==== Level 4 heading
```

1.2 - Cover page

```
// Defining variables for the cover page and PDF metadata
#let title = [guide for typst #linebreak() polytechnique package]
#let subtitle = "A modern alternative to LaTeX"
#let short_title = "package guide"
#let authors = ("Rémi Germe")
#let date_start = datetime(year: 2024, month: 07, day: 05)
#let date_end = datetime(year: 2024, month: 08, day: 05)

#set text(lang: "en")

#polytechnique.cover.cover(title, authors, date_start, date_end, logo:, subtitle: subtitle,
logo-horizontal: true)
```

Set text lang to `fr` if you want the months in French.
You can also specify `short_month: true` in the call to cover to get month abbreviations.

1.3 - Doing some math

Typst rendering :

Inline : $PV = nRT$ and $f : x \to \frac{1}{18}x^4, \forall x \in \mathbb{R}, f(x) \geq 0$.

Source code :

```
Inline : $P V = n R T$ and $f : x -> 1/18 x^4$, $forall x in RR, f(x) >= 0$.
```

Typst rendering :

Block (note space after opening $ and before closing $) :

$$f(b) = \sum_{k=0}^{n} \frac{(b-a)^k}{k!} f^{(k)}(a) + \int_a^b \frac{(b-t)^n}{n!} f^{(n+1)}(t)\,\mathrm{d}t$$

Source code :

```
Block (note space after opening \$ and before closing \$) : $ f(b) = sum_(k=0)^n (b-
a)^k / k! f^((k))(a) + integral_a^b (b-t)^n / n! f^((n+1))(t) dif t $
```

1.4 - Table of contents

You can generate a table of contents using `#outline()`. Here are useful parameters you can specify :

- `indent`
- `depth`
- `title` (put the title inside brackets : [title])

For example, the previous table of contents was generated using :

```
#outline(title: [Guide content], indent: 1em, depth: 2)
```

1.5 - Cite an article

Typst rendering :

You can cite an article, a book or something like [1]. Just see the `#bibliography` command below - you need a `.bib` file containing the bibliography.

Source code :

```
You can cite an article, a book or something like @example-turing. Just see the
`#bibliography` command below - you need a `.bib` file containing the bibliography.
```

1.6 - Numbering pages

Useful commands to number pages (learn about numbering patterns) :

```
#set page(numbering: none)     // to disable page numbering
#set page(numbering: "1 / 1")  // or another numbering pattern
#counter(page).update(1)       // to reset the page counter to 1
```

Warning : put these instructions at the very beginning of a page, otherwise it will cause a pagebreak.

Typst rendering :

> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus.

Source code :

```
#lorem(25)
```

1.7 - Dummy text with lorem

You can generate dummy text with the `#lorem(n)` command. For example : lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

2 - MODIFY THE TEMPLATE

2.1 - Contribute

Contributions are welcomed ! Check out the source repository.

You can also learn more about Typst packages release pipeline.

BIBLIOGRAPHY

[1] A. M. TURING, "I.—COMPUTING MACHINERY AND INTELLIGENCE," *Mind*, vol. 59, no. 236, pp. 433–460, 1950, doi: 10.1093/mind/LIX.236.433.