



# GUIDE FOR TYPST POLYTECHNIQUE PACKAGE

A modern alternative to LaTeX

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# 1

## DISCOVERING TYPST AND THE TEMPLATE

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**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.
```

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### 1.1 - HEADINGS

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**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
// Main title on cover page
#let title = [Guide for Typst #linebreak() Polytechnique package]
// Subtitle on cover page
#let subtitle = "A modern alternative to LaTeX"
// Logo on cover page
#let logo = none // instead of none set to image("path/to/my-logo.png")
#let logo-horizontal = true // set to true if the logo is squared or horizontal, set to
false if not
// Short title on headers
#let short-title = "package guide"
#let author = "Rémi Germe"
#let date-start = datetime(year: 2024, month: 06, day: 05)
#let date-end = datetime(year: 2024, month: 09, day: 05)
// Set to true for bigger margins and so on (good luck with your report)
#let despair-mode = false

#set text(lang: "en")

// Set document metadata
#set document(title: title, author: author, date: datetime.today())
#show: template.apply.with(despair-mode: despair-mode)

// Cover page
#template.cover(title, author, date-start, date-end, subtitle: subtitle, logo: logo, logo-
horizontal: logo-horizontal)
#pagebreak()
```

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  $f : x \rightarrow \frac{1}{18}x^4, \forall x \in \mathbb{R}, f(x) \geq 0$ .

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 `$` and before closing `$`) :

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

#### 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 $`

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## 1.4 - TABLE OF CONTENTS

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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

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#### 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

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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 magna aliqua quaerat voluptatem. Ut enim aequi doleamus.

**Source code** :

```
#lorem(25)
```

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## 1.7 - DUMMY TEXT WITH LOREM

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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

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### 2.1 - CONTRIBUTE

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Contributions are welcomed ! Check out the [source repository](#).

You can also learn more about [Typst packages](#) release pipeline.

# BIBLIOGRAPHY

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- [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](https://doi.org/10.1093/mind/LIX.236.433).



# APPENDIX A

## SOME DETAILS ABOUT SOMETHING



You can also use appendix if needed.