

# TypXidian

A template for academic documents written in Typst



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*Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.*

*– John Doe*



# abstract

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequale doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguere possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet, ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum defuturum, quas natura non depravata desiderat. Et quem ad me accedis, saluto: 'chaere,' inquam, 'Tite!' lictores, turma omnis chorusque: 'chaere, Tite!' hinc hostis mi Albucius, hinc inimicus. Sed iure Mucius.



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# List of Abbreviations

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A

AI                      Artificial Intelligence

M

ML                     Machine Learning





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# 1 | Introduction

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**TypXidian** is a template for academic writing, such as theses, dissertations, and reports.

TypXidian comes with custom environments inspired by [Obsidian](#) callout boxes. Some of the environments and styling choices, such as: headers and citation style, are inspired by [\[Sca24\]](#).

The purpose of this document is to act both as a showcase of the template and as documentation.

TypXidian also comes with the following packages:

- `cetz:0.4.2`
- `booktabs:0.0.4`
- `wrap-it:0.1.1`
- `subpar:0.2.2`
- `headcount:0.1.0`
- `fontawesome:0.6.0`
- `decasify:0.10.1`
- a custom version of `acrostiche:0.6.0`

You may directly use any function available in these packages .

## 1.1 Cover Page

The cover page supports two display modes:

- **Authors-only view:** for reports, notes, or shorter projects;
- **Supervisors + authors view:** for theses or dissertations.

You can switch between them by setting the `supervisors` parameter. If you pass an empty list (the default), the supervisors section will be hidden.

Additional metadata parameters include:

- `university`: name of the university;
- `logo`: university logo (defaults to `src/preview/figures/logo.svg`);
- `academic-year`: the academic year, e.g. **2024/2025** (defaults to `none`);
- `faculty`: the faculty name (defaults to `none`);
- `department`: the department name (defaults to `none`);
- `degree`: the degree program (defaults to `none`);
- `is-thesis`: if `true`, the “AUTHOR(S)” label changes to “CANDIDATE(S)” (defaults to `false`).

## 1.2 Abstract & Citation

By setting the `abstract` and `citation` parameters, the template adds two additional pages **before** the table of contents.

The citation page does **not** appear in the table of contents.

## 1.3 Links, Citations and Refs Colors

You may customize the links, citations and refs colors by respectively setting the `link-color`, `citation-color` and `ref-color`.

## 1.4 Additional Content

You may inject content directly via parameters:

- **before-content**: material inserted between the abstract/citation and the table of contents (defaults to **none**);
- **after-content**: material added immediately after the table of contents (defaults to **none**);

These are useful for dedicatory pages, acknowledgements, or institutional notices.



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## 2 | Figures, Tables, Paragraphs and Equations

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Figures, tables, paragraphs and equations numbering is dependent on the current chapter. For instance, a figure under the 1st chapter will be numbered as ‘Figure 1.X’ and so on. On each chapter, the counter resets.

The List of Figures and Tables are dynamic, meaning they will appear only if there is at least an image or a table in the document.

### 2.1 Subfigures

To assure consistent numbering of subfigures, you must use the `subfigure(...args)` function which has the same signature as `subpar.grid`. For instance, the following code:

```
#subfigure(
  columns: (1fr, 2fr),
  figure(
    image("assets/dog.jpg"),
    caption: [This is a dog.]
  ),
  <dog>,
  figure(
    image("assets/cat.jpg"),
    caption: [This is a cat.]
  ),
  <cat>,
  caption: [This is a figure with subfigures.],
  label: <fig:example>
)
```

will output the [Figure 2.1](#).

### 2.2 No number Equations

In this template, block equations are set to always be numbered. A utility function `nonum-eq` is available to write non-numbered equations. To use this function, just call it and write a block equation as you normally would:

```
#nonum-eq(
  $ \sinh(x) + \cosh(x) $
)
```

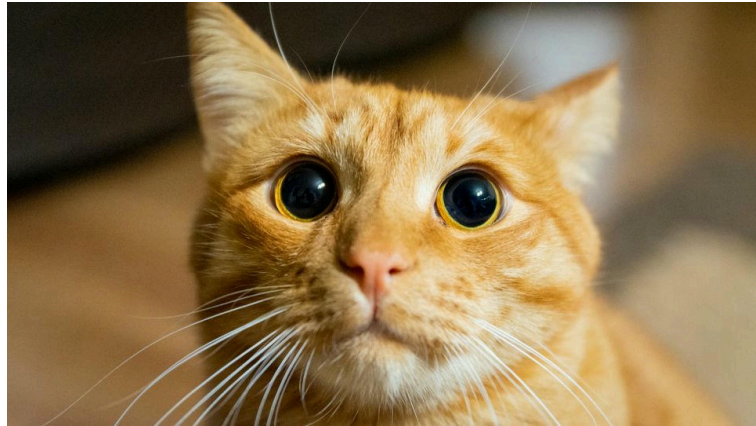
$$\sinh(x) + \cosh(x)$$

Calling `nonum-eq` will not affect equation numbering:

$$\sinh(x) + \cosh(x) \tag{2.1}$$



(a) This is a dog.



(b) This is a cat.

Figure 2.1: This is a figure with subfigures.

## 2.3 Paragraphs

The `paragraph(title, body)` function mimics LaTeX's `\paragraph{}` command. For instance, the following code:

```
#paragraph([This is a paragraph], [#lorem(25)])  
<par>
```

will output:

**This is a paragraph.** Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequaleam.

Paragraphs are also referenceable like any other figure environment: [Paragraph 2.1](#).



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# 3 | Callouts, Definitions, Theorems & Proofs

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Callouts environment can be used through any of the following functions: `info`, `danger`, `success`, `tip`, `faq`.

## Info

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.

$$x + y = \int_0^{\text{inf}} xydx \quad (3.1)$$

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## FAQ

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$$x + y = \int_0^{\text{inf}} xydx \quad (3.2)$$

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## Tip

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$$x + y = \int_0^{\text{inf}} xydx \quad (3.3)$$

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## Success

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$$x + y = \int_0^{\text{inf}} xydx \quad (3.4)$$

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### ⊗ Danger

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$$x + y = \int_0^{\inf} xy dx \quad (3.5)$$

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

For each, you may customize the following parameters:

- **title:** the title appearing next to the icon.
- **icon:** the icon of the callout.
- **fill:** background color.
- **title-color:** title color.
- **supplement:** the supplement for references as each callout can be referenced.

Other three custom environments are also available for definitions, theorems and proofs:

**Definition 3.1 (Definition)** *Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.*

$$x + y = 1 \quad (3.6)$$

**Theorem 3.1 (Theorem)** *Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.*

$$x + y = 1 \quad (3.7)$$

**Proof of Theorem 3.1** *Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.*

$$x + y = 1 \quad (3.8)$$

For each, you may customize the following parameters:

- **title:** the title appearing next to the icon.
- **stroke-fill:** the fill of the column of the left.
- **supplement:** the supplement for references as each math environment can be referenced.

Definitions and theorems will be listed in the List of Definitions and List of Theorems respectively.





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## 4 | Showcase

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**Artificial Intelligence (AI)** Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequale doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguere possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet, ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum defuturum, quas natura non depravata desiderat. Et quem ad me accedis, saluto: 'chaere,' inquam, 'Tite!' lictores, turma omnis chorusque: 'chaere, Tite!' hinc hostis mi Albucius, hinc inimicus. Sed iure Mucius. Ego autem mirari satis non queo unde hoc sit tam insolens domesticarum rerum fastidium. Non est omnino hic docendi locus; sed ita prorsus existimo, neque eum Torquatum, qui hoc primus cognomen invenerit, aut torquem illum hosti detraxisse, ut aliquam ex eo est consecutus? – Laudem et caritatem, quae sunt vitae sine metu degendae praesidia firmissima. – Filium morte multavit. – Si sine causa, nollem me ab eo delectari, quod ista Platonis, Aristoteli, Theophrasti orationis ornamenta neglexerit. Nam illud quidem physici, credere aliquid esse minimum, quod profecto numquam putavisset, si a Polyaeo, familiari suo, geometrica discere maluisset quam illum etiam ipsum dedocere. Sol Democrito magnus videtur, quippe homini erudito in geometriaque perfecto, huic pedalis fortasse; tantum enim esse omnino in nostris poetis aut inertissimae segnitiae est aut fastidii delicatissimi. Mihi quidem videtur, inermis ac nudus est. Tollit definitiones, nihil de dividendo ac partiendo docet, non quo ignorare vos arbitrer, sed ut.

**ML. Machine Learning (ML)** Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore.

### 4.1 Subsection

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quidem physici, credere aliquid esse minimum, quod profecto numquam putavisset, si a Polyaeno, familiari suo, geometrica discere maluisset quam illum etiam ipsum.

### 4.1.1 Subsubection

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# Bibliography

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- [Sca24] S. Scardapane, “Alice's Adventures in a Differentiable Wonderland – Volume I, A Tour of the Land.” [Online]. Available: <https://arxiv.org/abs/2404.17625>