Example slide deck



ÚFAL slides template

This time in Typst!

Zdeněk Kasner

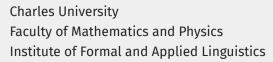


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What is this?

What is this?



- This slide deck is created with <u>Typst</u> a markupbased typesetting system
 - We use also Polylux for slide-related commands.
- The template ufal.typ is inspired by the <u>ÚFAL</u>
 <u>Google Slides template</u> and Milan Straka's <u>SliMD</u>
 <u>template</u>.
- It is different than the <u>ÚFAL Marp template</u>: see <u>the</u> comparison slide.



ÚFAL Typst Theme



Main features

- **Easy editing:** Create slides in your favourite text editor with live preview.
- Git-friendly: You can version-control your presentations.
- Multiple export formats: Export to PDF or PNG.
- **LaTeX support**: Mathematical typesetting with native Typst math.
- Advanced typography: Use Typst's powerful layout system.
- **Consistency**: Everything is nice and aligned without too much effort.
- 👢 Auto footer: No more manual copying of the bottom orange bar 💪
- **Popular framework**: Typst has <u>excellent documentation</u> and many extensions.

Typst vs Marp 💥



Should I use the **Typst template** (this one) or the Marp template?

Typst

- Nicer markup language.
- More powerful layout handling.
- Online collaboration.
- PDF-only no interactive content.

Marp

- Simpler markup language.
- Interactive content (video, audio).
- X Need to use HTML for advanced stuff.

How to use it?

Typst syntax 101



See the code and the tutorial on how to use the Typst markup syntax.

This is an H3 header.

- This is a bulleted list.
 - With a nested item.
- 1. And this is a numbered list.

You can also use **bold text**, *italic text*, *links*, monospace, etc.

With Typst, you can modify layout or text properties to your liking using functions such as #text() or #align().

Slide layouts



This template uses Polylux, which provides various layout options:

- Use #slide[content] for regular slides
- Use #title-slide, #part-slide, and #summary-slide for special layouts.
- Use toolbox.side-by-side for two-column layouts.

Tip

You can also create info boxes with the helper function:

#infobox(title: "Title", icon: "@ ")[content]

Working with images



Image placement and sizing

Use Typst's image syntax to include an image:

#image("img/transformer.png", height: 3cm)



Math typesetting

You can render both inline math: $E=mc^2$ and separate equations:

$$\mathcal{L}(\theta) = \sum_{i=1}^n \log p(y_i \mid x_i, \theta) - \lambda \ \|\theta\|_2^2$$

A

Warning

<u>Typst math syntax</u> is **different** from the LaTeX syntax.

Use this online convertor to convert your equations between these two.

This slide uses the #blank-slide command.

Code blocks & columns



Python code

Syntax highlighting is supported:

```
def factorial(n):
    if n == 0:
        return 1
    else:
        return n * factorial(n - 1)
```

Javascript code

```
function greet(name) {
   console.log(`Hello, ${name}!`);
}
```

i Note

Use toolbox.side-by-side to display content in multiple columns.

Tables and links



Model	Metric 1	Metric 2	Rating
not LLM 1	14.5		Mediocre
not LLM 2	5.5	\rightarrow	Worst
not LLM 3	6.9		Even worse
LLM	99.8	\(\psi\)	Greatest thing ever!

- Tables automatically get proper styling.
- You can add source links using the source-link function.

source: Our experiments



Polylux Animation Features

Item-by-item lists



Animation Controls

Use start: N parameter to control when animations begin on specific subslides.

See also other **Polylux features**.



Polylux Animation Features

Item-by-item lists

• Basic bullet points



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Polylux Animation Features

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- Basic bullet points
- Appear one by one



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Polylux Animation Features

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One-by-one content blocks

First content block



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Polylux Animation Features

Item-by-item lists

- Basic bullet points
- Appear one by one

One-by-one content blocks

First content block Second content block



Animation Controls

Use start: N parameter to control when animations begin on specific subslides.

See also other **Polylux features**.

Practical tips

Development



Live preview

Use any text editor with Typst support for live preview:

- VS Code with the <u>Tinymist Typst extension</u>
- Neovim with <u>typst.vim</u>
- Online Typst web app (useful also for collaboration)

Compilation CLI

```
$ typst compile slides.typ slides.pdf
```

\$ typst watch slides.typ slides.pdf # Auto-recompile

Links



- Typst Documentation
- Polylux: Presentation slides in Typst
- Touying: Modern presentation framework for Typst
- Typst Packages Repository
- Typst Community Discord
- Original ÚFAL Marp Theme

ÚFAL Typst Template

Summary

This template is the dark horse of all the UFAL templates 🔥



It is easy to use, extensible, and looks great.

Don't be lazy, learn Typst!

https://github.com/kasnerz/typst-ufal