Typst Markup typesetting

CONCEPTS

Markup is the default mode. # switches to code for one expression, [ ] switches back, and $ $ is math.

Markup text, = * _
↓ #
Code let, set, show
↓ [ ]
Content back in markup
↓ compile
PDF / PNG / SVG one file or one per page

typst watch recompiles on save; open the PDF in a viewer that reloads changed files.

COMPILE AND WATCH

typst compile *<file.typ>*
Compile to a PDF next to the source

typst watch *<file.typ>*
Recompile on every change

typst init @preview/ *<template>*
New project from a template

typst compile *<file.typ>* *<out>*.png
Export to PNG or SVG

typst compile *<file.typ>* **--pages 2-4**
Export only some pages

typst compile --input *<key>*=*<value>* *<file.typ>*
Pass a value into the document

typst compile --font-path *<dir>* *<file.typ>*
Add a font directory

MARKUP

= Heading
Heading; more = for deeper levels

bold
Strong text

italic
Emphasis

- item
Bullet list entry

+ item
Numbered list entry

MARKUP (cont.)

`code`
Inline monospace

#link("*<url>***")[***<text>***]**
Hyperlink with custom text

// comment
Line comment

``` *<lang>*
Fenced code block

****
Forced line break

#pagebreak()
Start a new page

#align(center)[*<content>***]**
Align content

MATH

$x^2 + y^2$
Inline math (no spaces inside)

$ x^2 + y^2 $
Display math (spaces inside)

a / b
Fraction

x^2 x_i
Superscript and subscript

sum_(i=1)^n i
Sum with limits

mat(1, 2; 3, 4)
Matrix, rows split by ;

alpha pi → ≤ ≠
Greek letters and symbols by name

LET, SET, SHOW

#let *<name>* **=** *<value>*
Define a variable

#let *<f>***(***<a>***,** *<b>***: 1) = [***<body>***]**
Define a function

#set text(font: "*<name>***", size: 11pt)**
Font and size from here on

#set page(paper: "a4", margin: 2cm)
Paper size and margins

#set page(numbering: "1")
Number the pages

#set heading(numbering: "1.1")
Number headings

LET, SET, SHOW (cont.)

#set text(lang: "de")
Language for hyphenation

#show heading: set text(blue)
Restyle every heading

#show: *<template>***.with(***<args>***)**
Apply a template to the document

FIGURES, TABLES, REFS

#image("*<path>***", width: 50%)**
Insert an image

#figure(*<content>***, caption: [***<text>***])**
Numbered figure with caption

#table(columns: 3, [*<a>***], [***<b>***], [***<c>***])**
Table; cells fill row by row

<label>
Attach a label to the element before it

@*<label>*
Reference a label

#outline()
Table of contents

#bibliography("*<file.bib>***")**
Bibliography from BibTeX or Hayagriva

@*<key>*
Cite a bibliography entry

CODE AND PACKAGES

#import "@preview/ *<pkg>***:***<ver>***":** *<name>*
Use a package from Typst Universe

#import "*<file.typ>***":** *<name>*
Import from a local file

RECIPES

Minimal document

```
#set page(paper: "a4", margin:
2cm, numbering: "1")
#set text(font: "Libertinus
Serif", size: 11pt)
#set heading(numbering: "1.1")

= Introduction
Hello *Typst*, see @fig.
#figure(image("plot.png", width:
70%), caption: [A plot]) <fig>
```