The "Mantys" template

MANuals for TYpSt

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Helpers to build manuals for Typst packages and templates.

Jonas Neugebauer

neug @ineug

Mantys is a Typst template to help package and template authors write beautiful and useful manuals. It provides functionality for consistent formatting of commands, variables and source code examples. The template automatically creates a table of contents and a command index for easy reference and navigation.

For even easier manual creation, Mantys works well with Tidy, the Typst docstring parser.

The main idea and design were inspired by the LATEX package CNLTX by Clemens Niederberger.

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Part I

About

Mantys is a Typst package to help package and template authors write manuals. The idea is that, as many Typst users are switching over from TFX, they are used to the way packages provide a PDF manual for reference. Though in a modern ecosystem there are other ways to write documentation (like mdBook¹ or AsciiDoc²), having a manual in PDF format might still be beneficial since many users of Typst will generate PDFs as their main output.

This manual is a complete reference of all of Mantys features. The source file of this document is a great example of the things Mantys can do. Other than that, refer to the README file in the GitHub repository and the source code for Mantys.

I.1 Acknowledgements

Mantys was inspired by the fantastic LATEX package CNLTX3 by Clemens Niederberger⁴.

Thanks to @tingerrr⁵ and others for contributing to this package and giving feedback.

Thanks to @Mc-Zen⁶ for developing Mc-Zen/tidy⁷.

I.2 Dependencies

Mantys is build using some of the great packages provided by the Typst community:

- VALKYRIE⁸ (0.2.2)
- TIDY⁹ (0.4.3)
- TYPEAREA¹⁰ (0.2.0)
- $HYDRA^{11}$ (0.6.1)
- MARGINALIA 12 (0.1.4)
- SHOWYBOX¹³ (2.0.4)
- codly¹⁴ (1.3.0)
- OCTIQUE 15 (0.1.0)

¹https://rust-lang.github.io/mdBook/

²https://asciidoc.org

³https://ctan.org/pkg/cnltx

⁴clemens@cnltx.de

⁵https://github.com/tingerrr

⁶https://github.com/Mc-Zen

⁷https://github.com/Mc-Zen/tidy

⁸https://typst.app/universe/package/valkyrie/0.2.2

⁹https://typst.app/universe/package/tidy/0.4.3

¹⁰https://typst.app/universe/package/typearea/0.2.0

¹¹https://typst.app/universe/package/hydra/0.6.1

¹²https://typst.app/universe/package/marginalia/0.1.4

¹³ https://typst.app/universe/package/showybox/2.0.4

¹⁴https://typst.app/universe/package/codly/1.3.0

¹⁵https://typst.app/universe/package/octique/0.1.0

I.3 Some Terminology

Since Mantys was first developed as a port of CNLTX, some terms used are derived from the original LATEX package.

Functions are called "commands" and paramteres "arguments". This has the benefit of avoiding collisions with the native function type.

To display formatted commands, arguments and types inline use the abbreviated command versions like #cmd or #arg.

To fully document a command or argument use the block commands like #command and #argument.

Some commands add an entry to the Index. Those commands usually have a Minusvariant that skips this step (like #cmd and #cmd-).

A "custom type" is a type defined by the package usually in the form of a dictionary schema. Read Section IV.2.0.a for more information.

Part II

Quickstart

In your project root run typst init:

```
typst init "@preview/mantys" docs
```

Your project folder should look something like this:

```
.
— docs
— manual.typ
— typst.toml
```

Open docs/manual.typ in your editor, delete the arguments in the #mantys call at the top from (name) to (respository). Then uncomment the line ..toml("../typst.toml"),.

The top of your manual should look like this:

```
1 #show: mantys(
2 ..toml("../typst.toml"),
3 )
```

Fill in the rest of the information like (subtitle) or (abstract) to your liking. Select a Theme you like.

All uppercase occurrences of (name) will be highlighted as a package name. For example MANTYS will appear as Mantys.

Start writing your manual.

If you alread use Tidy to document your functions, use #tidy-module to parse and display a module directly in Mantys:

```
1 Tidy-module("utils", read("../src/lib/utils.typ"))
```

Read Section IV.1 for more details about using Tidy with Mantys.

Part III

Usage

Initialize your manual using typst init:

```
typst init "@preview/mantys" docs
```

We suggest to initialize the template inside a docs subdirectory to keep your manual separated from your packages source files.

If you prefer to manually setup your manual, create a .typ file and import \underline{M} at the top:

```
#import "@preview/mantys:1.0.1": *
```

III.1 Project structure

You can setup your project in any way you like, but a common project structure for Typst packages looks like this:

Mantys' defaults are configured with this structure in mind and will let you easily setup your manual.

III.2 Initializing the template

After importing Mantys the template is initialized by applying a show rule with the #mantys command.

#mantys requires some information to setup the template with an initial title page. Most of the information can be read directly from the typst.toml of your package:

```
#show: mantys(
    ..toml("../typst.toml"),
    ... // other options
)
```

Change the path to the typst.toml file according to your project structure.

Note that since 1.0.0 #mantys no longer requires the use of #with.

```
#mantys(..(doc))
```

```
Argument ...(doc)

Mantys initializes the document from the provided arguments. Refer to the scheme in Section III.3 for all possible options and how to use the document.
```

```
Argument (theme)

The theme to use for the manual.
```

All other arguments will be passed to #titlepage.

III.3 The Mantys document

The arguments passed to #mantys are used to initialize the document, a dictionary holding information required for the manual.

The following keys can be passed to #mantys:

```
(title) content
 (subtitle): none content
 (urls): none array of url
 (date): none date
 (abstract): none content
 (package): (:) package
 (template): none     template
 (theme-options): (:) dictionary
 (show-index): true | bool
 (show-outline): true bool
 (show-urls-in-footnotes): true bool
 (index-references): true | bool
 (wrap-snippets): false bool
 (examples-scope): none examples-scope
 (assets): () array of (
     (id) str
     (src) str
     (dest) str
 (git): none (
     (branch): "main" str
     (hash) str
)
```

If no title is provided, the title is taken from the package information is provided, an error is thrown.

Will be populated from the information in (package) if omitted.

```
Argument (subtitle): none content

A subtitle for the manual.
```

```
Argument (urls): none array | str
```

```
Argument (date): none datetime | str
```

```
An abstract to appear on the #titlepage.
```

```
Argument (package): (:) package

The package information (usually read from typst.toml).
```

```
Argument (template): none template

The template information (usually read from typst.toml).
```

```
Argument bool
```

By default, an index of commands, variabes and other keywords is generated at the end of the document. Setting this to false will disable the index. You can manually generate an index by using #make-index.

```
— Argument — bool bool
```

By default, a table of contents is generated on the title page. Setting this to false will disable the outline.

The title page is generated by the theme and might ignore this setting.

```
Argument (show-urls-in-footnotes): true bool

By default the LIRLs of links generated by #link will be shown in a footnote
```

By default, the URLs of links generated by #link will be shown in a footnote. false disables this behaviour.

```
— Argument — bool
```

By default, referencing a command, argument or type will create an index entry. This can be disabled on a per reference basis.

Setting (index-references) to false will reverse this and disable index entries but allows you to enable them per reference.

See Section IV.3 for more information about references.

Default scope for code examples. The examples scope is a dictionary with two keys: scope and imports. The scope is passed to #eval for evaluation. imports maps module names to a set of imports that should be prepended to example code as a preamble.

Schema:

```
(
  (scope) dictionary
  (imports) dictionary
)
```

For example, if your package is named my-pkg and you want to import everything from your package into every examples scope, you can add the following (examples-scope):

```
examples-scope: (
    scope: (
     pkg: my-pkg
    ),
    imports: (
     pkg: "*"
    )
)
```

The (scope) and (imports) are passed to T_{IDY} for evaluating docstring examples.

For further details refer to Section IV.4 and #example.

```
Argument
(theme-options): (:)

Options to be used by themes (see Section V.1).
```

Mantys can add #metadata to the manual to be queried by external tools. See Section III.3.0.c for more information.

The repository at jneug/typst-mantys¹⁶ contains an assets script to query Typst assets from a Mantys manual and compile them before compiling the manual.

¹⁶https://github.com/jneug/typst-mantys

Mantys can show information about the current commit in the manuals footer. This is useful if you compile your manual with a CI workflow like GitHub Actions.

The git information is read with the #git-info command. To allow MANTYS to read local files from your project you need to provide a reader function to #git-info.

```
#mantys(
    ..toml("../typst.toml"),

git: git-info((file) => read(file))
)
```

The function assumes the project structure seen in Section III.1. For other layouts provide the location of the .git folder via the (git) argument.

Schema for package information

```
(name) str
(version) version
(entrypoint) str
(authors): () author
(license) str
(description) str
(homepage): none url
(repository): none url
(keywords): none array of str
(categories): none array of one of ("components", "visualization" ... )
(disciplines): none array of one of ("agriculture", "anthropology" ... )
(compiler): none version
(exclude): none array of str
)
```

The package is exactly the same schema used for the package key in the toml.typst file. See the official doumentation¹⁷ for a full description of all keys.

Providing a (name) for the package is mandatory.

¹⁷https://github.com/typst/packages?tab=readme-ov-file#package-format

Usually the (package) is loaded directly from the typst.toml file and passed to #mantys.

Schema for template information

```
(
  (path) str
  (entrypoint) str
  (thumbnail): none str
)
```

The template is exactly the same schema used for the template key in the toml.typst file. See the official doumentation for a full description of all keys.

```
The (template) is optional and may be none.
```

Schema for asset information

```
(
    (id) str
    (src) str
    (dest) str
)
```

Mantys can add #metadata about required assets to the document. External tooling may query the document for these assets at the <mantys:asset> label and compile these before compiling the manual itself.

You can find a simple script in the Mantys GitHub repository (scripts/assets 19) to automatically compile Typst assets.

External tools should query the document with the input mode=assets. This will stop rendering of the document after setting the required metadata and thus speed up the query.

```
typst query --root . --input mode=assets --field 'value' docs/manual.typ
'<mantys:asset>'
```

Each queried asset has an id, a source file src and a description dest. An external tool should compile src to dest.

 $^{^{18}} https://github.com/typst/packages?tab = readme-ov-file\#templates$

¹⁹https://github.com/jneug/typst-mantys/tree/main/scripts/assets

Usually the order of assets is important since later assets might depend on earlier ones. For example the first two assets for this manual look like this:

```
{
    "id": "theme-cnltx-pages",
    "src": "assets/examples/theme-cnltx-pages.typ",
    "dest": "assets/examples/theme-cnltx-pages/{n}.png"
},
{
    "id": "assets/examples/theme-cnltx.png",
    "src": "assets/examples/theme-cnltx.typ",
    "dest": "assets/examples/theme-cnltx.png"
}
```

The first entry compiles a multipage example for the CNLTX theme into multiple png images and the second combines them into one. The result can be seen in Section V.1.2.c.

If your manual requires a lot of assets it might be a good idea to collect them into a separate file like $docs/assets.typ^{20}$ and import it in your manual.

Schema for author information

```
(name) str
(email): none str
(github): none str
(urls): none array of url
(affiliation): none str
)
```

Information about the package authors can be provided in different formats. In the document they will be accessible as dictionaries with a name key. The other information is optional.

If the author is provided as a str, Mantys will try to find additional information like an email address.

For example:

```
"J. Neugebauer @jneug <github@neugebauer.cc>"
```

²⁰https://github.com/jneug/typst-mantys/tree/main/docs/assets.typ

will be parsed into

```
{
  name: "J. Neugebauer",
  email: "github@neugebauer.cc",
  github: "jneug",
}
```

Loading git information

```
#git-info((reader), (git-root): "../.git")
```

Loads information about the current commit from the git repository at (git-root).

```
Argument
(reader)

A function that reads a file and returns its content: (str)→str

Usually this will look like this:

(filename) => read(filename)
```

```
#git-info((filename) => read(filename))

(
    branch: "main",
    hash: "5014e538a92ed175fd38deefd18799915f6503ea",
)
```

III.3.1 Accessing document data

There are two methods to access information from the Mantys document:

- 1. Using commands from the document module or
- 2. using #mantys-init instead of #mantys.

Using the document module

The usual way to access the **document** is by calling one of the document functions.

```
#document.create #document.get-value #document.update-value
#document.final #document.save #document.use
#document.get #document.update #document.use-value
```

```
#document.create(..(args)) → document
```

Creates a document by parsing the supplied arguments agains the document schema using VALKYRIE²¹.

```
Argument ...(args) any
Arguments accepted by document.
```

小 context

#document.final

Retrieves the final document from the internally saved state.

∽ context

#document.get

Retrieves the document at the current location from the internally saved state.

∽ context

```
#document.get-value((key), (default): none)
```

Gets a value from the internally saved document.

```
\#document.save(\langle doc \rangle) \rightarrow content
```

Saves the **document** in an internal state.

```
Argument (doc) document

The document created by #document.create.
```

#document.update(⟨func⟩) → content

Updates the document in the internal state.

```
Argument (func) function

An update function to be passed to #state: (document)→document
```

#document.update-value((key), (func))

Updates the value at $\langle key \rangle$ with the update function $\langle func \rangle$: (any , any) \rightarrow none $\langle key \rangle$ may be in dot-notation to update values in nested dictionaries.

```
☐ see #utils.dict-update
```

⋄ context

#document.use((func))

Retrieves the document from the internal state and passes is to (func).

```
Argument (func) function

A function to receive the document.
```

∽ context

#document.use-value((key), (func), (default): none)

Gets a value from the internally saved document.

```
Argument str
```

²¹https://typst.app/universe/package/valkyrie

Key to retrieve. May be in dot-notation.

```
Argument (func) function

Function to receive the value.
```

```
Argument
(default): none
default value to use, if (key) is not found.
```

Custom initialization

Instead of using #mantys in a #show rule, you can initialize Mantys using #mantys-init directly (#mantys essentially is a shortcut for using #mantys-init).

```
#mantys-init → array
```

Calling this function will return a tuple with two elements:

- [0] The Mantys document.
- [1] The Mantys template function to be used in a #show rule.

Calling #mantys-init directly will give you direct access to the document in your manual:

```
1 #let (doc, mantys) = mantys-init(..toml("../typst.toml"))
2
3 #show: mantys
4
5 This is the manual for #doc.package.name version
#str(doc.package.version).
```

Part IV

Documenting commands

▲ This section need to be written. Refer to Section VI for the documentation of all available commands.

IV.1 Using Tidy

Mantys was build with Tidy in mind and replaces the default template used by Tidy. If you already use docstrings to document your code, you can easily show your function documentation in your Mantys manual.

#tidy-module is the main entrypoint for using Tidy in Mantys. The command will call #tidy.parse-module and #tidy.show-module for you and setup Mantys as the template.

Since Mantys can't read your packages files, you need to call #read and pass the result to the function (same as you would do for #tidy.parse-module).

```
#tidy-module(
    (name),
    (data),
    (scope): (:),
    (module): none,
    (filter): func => true,
    (legacy-parser): false,
    ...(tidy-args)
) → content
Parses and displays a library file with Tidy.

1 #tidy-module("utils", read("../src/li
```

```
Parses and displays a library file with Tidy.

1 #tidy-module("utils", read("../src/lib/utils.typ"))

Argument
(name)

Name of the module.

Argument
(data)

Data of the module, usually read with #read.

Argument
(scope): (:)

Additional scope for evaluating the modules docstrings.
```

```
- Argument str
```

Optional module name for functions in this module. By default, all functions will be displayed without a module prefix. This will add a module to the functions by passing (module) to #command.

```
Without module: #some-command
With module: #util.another-command
```

Note that setting this will also change function labels to include the module.

```
Argument

(filter): func => true function
```

A filter function to apply after parsing the module data. For each function in the module the parsed information is passed to (filter). It should return true if the function should be displayed and false otherwise.

```
Argument
(legacy-parser): false
Set to true to enable Tidys legacy parser (pre version 0.4.0).

Argument
..(tidy-args)
Additional arguments to be passed to #tidy.show-module.
```

For easier usage it is recommended to define a custom function in the header of your manual like this:

```
1 #let show-module(name, ..tidy-args) = tidy-module(
2    name,
3    read("../src/" + name + ".typ"),
4    // Some defaults you want to set
5    ..tidy-args.named(),
6 )
```

See Section VI for an example of the result of #tidy-module.

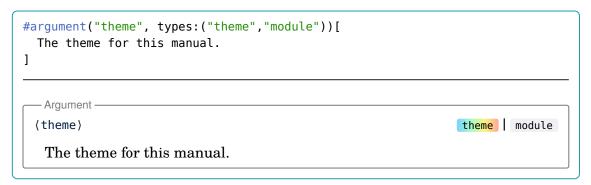
When using Tidy, most Mantys concepts also apply to docstrings. For example, cross-referencing commands is done with the cmd: prefix. All Mantys commands like #arg or #property are available in docstring.

IV.2 Documenting custom types and validation schemas

Mantys provides support for documentation of custom data types and validation schemas as provided by VALKYRIE²².

In general a custom type is an anchor in the document that defines a structured schema for some kind of data, that is used in your package. A dictionary with some mandatory keys for example. See document and other schmeas in this manual for examples.

A custom type can appear anyplace in the manual where a data type can appear, like in argument descriptions:



Defining custom types

Place a custom type anchor with the #custom-type command.

```
#custom-type((name), (color): auto)
```

Places a custom type anchor in the document. Any occurrences of the data type (name) will link to this location in the manual. THe anchor itself is invisible.

Defining a custom type schema

If your custom type is defined by a dictionary schema, you cann simply pass an example to #schema to show a summary of the required keys and types.

#schema also accepts a VALKYRIE²³ validation schema.

```
#schema((name), (definition), (color): auto)
```

Support for **VALKYRIE** schemas is still in development. Some aspects (like optional keys) are not yet supported.

See document and other custom types in this manual for examples.

²²https://typst.app/universe/package/valkyrie

²³https://typst.app/universe/package/valkyrie

IV.3 Referencing commands and types

You can use the builtin @ short-syntax for referencing commands, arguments and custom-types in your document.

Use the cmd prefix to reference custom types in the manual or use #cmdref.

```
@cmd:mantys
______
#mantys
```

Add an argument name after a dot to reference arguments of a command or use #argref.

```
@cmd:mantys.theme
#mantys.theme
```

Use the type prefix to reference custom types in the manual or use #typeref.

```
@type:custom-type

custom-type
```

Referencing a command will create an index entry. To prevent this, add [-] as a supplement. If #mantys.index-references was set to false, no index entries are created by default but adding [+] to a reference will set one.

```
@cmd:utils:dict-get[-] #utils.dict-get

@cmd:mantys.index-references[+] #mantys.index-references
```

Referencing the builtin commands and types can be done via the #builtin and #dtype commands. For these cases Mantys also provides shortcuts in the #typ dictionary.

```
#typ.raw → #raw
#typ.t.dict → dictionary
#typ.v.false → false
```

See Section VI.3 for a full list of available shortcuts.

IV.4 Displaying examples

Showing examples is easy by using the example commands. Wrapping any typst code in #example or #side-by-side will show the raw code and the evaluated result in a #frame.

```
#side-by-side is an alias for #example with (side-by-side): true set.
```

By default, any #raw blocks with the language set to example or side-by-side will automatically be wrapped inside the corresponding command.

```
Some *bold* text.

'``side-by-side
Some *bold* text.

Some *bold* text.

Some bold text.

Some bold text.

Some *bold* text.
Some bold text.
```

To show an example with fenced #raw code, use more than three backticks for the example environment:

```
'``typ
#let number = 4
'``
```

IV.4.1 Preventing example evaluation

Sometimes you don't want the example to be evaluated by Typst and provide the result yourself. In that case, simply add another content block after the example code:

```
#example[
    ```typ
 Some #strong[bold] text?

![
 Some #emph[bold] text?
]

Some #strong[bold] text?

Some bold text?
```

## IV.4.2 Setting the evaluation scope

Examples are evaluated with the scope set by #mantys.examples-scope.

#example takes two arguments to modify the scope of examples: #example.scope and
#example.imports.

The (scope) is passed to #eval as the scope argument while the (imports) are prepended to the raw code as #import statements.

The (scope) passed to #example is merged with the scope from (examples-scope) passed to #mantys. By passing (use-examples-scope): false, the (examples-scope) is ignored.

The (imports) are parsed into a preamble by #utils.build-preamble. The value is a dictionary with (module: import) pairs that are prepended to the raw code of the example:

```
#utils.add-preamble(
 "#rawi[Some] @cmd:command.",
 (
 mantys: "cmd",
 utils: "rawi",
),
)

#import mantys: cmd; #import utils: rawi;
#rawi[Some] @cmd:command.
```

The #mantys.examples-scope is passed to Tidy for evaluating examples in docstrings.

## IV.4.3 Displaying other sourcecode

Any #raw code will be passed to CODLY<sup>24</sup> for display. You can pass new defaults to CODLY via the #codly.codly command.

```
Some `raw` code
over *multiple*
lines.

1 Some `raw` code
2 over *multiple*
3 lines.
```

To modify the display you can wrap the #raw block inside the #codesnippet or #sourcecode commands. By default both commands add a #frame around the content.

<sup>&</sup>lt;sup>24</sup>https://typst.app/universe/package/codly

#codesnippet can be used for small snippets of code like the typst init line seen in Section III. The command disables line numbers. Any arguments will be passed to #codly.local.

Previous versions of  $\underline{Mantys}$  would wrap any #raw block inside #codesnippet. This was changed to allow more flexibility when showing code. To enable the old behaviour, pass (wrapsnippets): true to #mantys.

#sourcecode will wrap the #raw block in a frame for nicer display.

```
#sourcecode[```typ
#let a = "Hello"
#strong(a), World!

```]

1 #let a = "Hello"
2 #strong(a), World!
```

Part V

Customizing the template

V.1 Themes

Mantys provides support for color themes and can be styled within certain boundries. The template comes with a few bundled themes but you can easily create a custom theme.

▲ Theme support is considered **experimental** and might be removed in future versions if it proves to be not stable enough. Compilation times can get somewhat slow and my guess is that themes are a major factor.

V.1.1 Using themes

To set the theme for your manual, simply provide a (theme) argument to #mantys and set it to one of the bundled themes (see Section V.1.2), a dictionary or a #module with the required color, font and style information.

Some themes can be further customized by options that get passed to #mantys in the (theme-options) key.

```
#show: mantys(
    ..toml-info(read),

theme: themes.orly,
    theme-options: (
    pic: image("assets/logo.png", width: 100%, )
    )
)
```

V.1.2 Bundled themes

Typst theme

The default theme for Mantys. Based on the Typst documentation and website.

(theme): #themes.default

Example: This manual.



Modern theme

A slightly more modern theme for the digital age. Based on the Creative Commons Style Guide²⁵.

(theme): #themes.modern

Example: The manual for FINITE²⁶.



CNLTX theme

This theme is based on the original CNLTX template.

(theme): #themes.cnltx



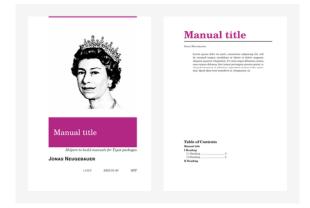
 $^{^{25}} https://creative commons.org/2019/10/30/cc\text{-style-guide/}$

 $^{{}^{26}}https://typst.app/universe/package/finite$

O'Rly? theme

This theme uses the FAUXREILLY²⁷ package to create a style similar to an O'Reilly book.

```
(theme): #themes.orly
```



Theme Options

```
Argument—
(title-image)

#content to be passed to the (pic) argument of #fauxreilly.orly.
```

V.1.3 Creating a custom theme

A theme is a dictionary of #module with a set of predefined keys for color and font information. See the default theme for a full list of keys and their meaning.

```
(fill) color
                                                           (package) color
(primary) color
                                                           (module) color
                             )
(secondary) color
                                                          (since) color
                           (header) (
                                                          (until) color
(fonts) (
                               (size) length
   (serif) array
                                                           (changed) color
                               (fill) color
   (sans) array
                                                           (deprecated) color
                                                           (compiler) color
   (mono) array
                           (footer) (
                                                           (context) color
  )
                               (size) length
(muted) (
                               (fill) color
   (fill) color
                                                      (commands) (
   (bg) color
                                                          (argument) color
                           (code) (
                                                           (command) color
  )
                               (size) length
                                                           (variable) color
(text) (
                               (font) array
                                                          (builtin) color
   (size) length
                               (fill) color
                                                           (comment) color
   (font) array
                                                           (symbol) color
                             )
   (fill) color
                           (alert) function
                                                         )
                           (tag) function
                                                      (values) (
(heading) (
                           (emph) (
                                                           (default) color
   (font) array
                               (link) color
```

²⁷https://typst.app/universe/package/fauxreilly

```
(page-init) function (title-page) function
(last-page) function
```

(primary) and (secondary) are the main color scheme of the theme. (fonts) is a dictionary of the main fontsets used.

(page-init) is a function called during template initialization to add custom #set rules and other global settings to the document. (title-page) and (last-page) are called once at the beginning and end of the document to add a title and final page to the manual respectively. All three are functions of (document, theme)→ content.

```
(alert) is a function (str, content) → content that receives an (alert-type)
```

When writing a custom theme, remember to add #pagebreak at the end of (title-page), if your title page is supposed to be on its own page. Same goes for (last-page).

V.1.4 Theme helpers

If you don't want to create a complete theme on your own, but want to modify the color scheme of an existing theme, you can quickly do that with one of these helper functions.

```
#create-theme(..(theme-spec), (base-theme): #themes.default)
```

Creates a theme from the passed in arguments...(theme-spec) should be key-value pairs from the theme specification. Any missing keys are copied from the theme passed in as (base-theme).

```
#color-theme((primary), (secondary), ..(theme-spec), (base-theme):
#themes.default)
```

Creates a new theme from a (primary) and a (secondary) color. Further arguments are passed to #create-theme along with (base-theme).

```
#show: mantys(
    ..toml-info(read),

theme: color-theme(blue, red, muted: (fill: yellow), base:
    themes.cnltx),
)
```

V.2 The index

Mantys adds an index of all commands and custom types to the end of the manual. You can modify this index in several ways.

V.2.1 Adding entries to the index

Using #idx you can add new entries to the index. Entries may be categorized by (kind). Commands have (kind): "cmd" set and custom types (kind): "type". You may add arbitrary new types. If your package handles colors, you may want to add a "color" category like this:

```
idx("red", kind: "color")
```

V.2.2 Showing index entries by category

The default index can be disabled by passing (show-index): false to #mantys.

To manually show an index in the manual, use #make-index.

```
#idx((term), (kind): "term", (main): false, (display): auto) \rightarrow none | content Adds (term) to the index.
```

Each entry can be categorized by setting (kind). #make-index can be used to generate the index for one kind only.

```
Argument (term) str | content

An optional term to use, if it differs from (body).
```

```
(kind): "term" str

A category for this term.
```

```
Argument (main): false bool

If this is the "main" entry for this (term).
```

```
Argument (display): auto content

An optional content element to show in the index instead of (term),
```

#idx-term((term)) → str

Removes special characters from (term) to make it a valid format for the index.

```
Argument (term) str | content

The term to sanitize.
```

```
#make-index(
  (kind): auto,
  (heading-format): text => heading(depth: 2, numbering: none, outlined: false,
bookmarked: false, text),
  (entry-format): (term, pages) => [#term #box(width: 1fr, repeat[.])
#pages.join(", ")\ ],
  (sort-key): it => it.term,
  (grouping): it => upper(it.term.at(0)),
  (index-format): it => it.kind + ":" + it.term
) → content
  Creates an index from previously set entries.
    Argument —
   (kind): auto
                                                                             str
     An optional kind of entries to show.
   (heading-format): text => heading(depth: 2, numbering: none, outlined: false,
   bookmarked: false, text)
                                                                         function
     Function to format headings in the index: ( str )→ content
    – Argument –
   (entry-format): (term, pages) => [#term #box(width: 1fr, repeat[.])
   #pages.join(", ")\ ]
                                                                          content
     Function to format index entries. Receives the index-entry and an array of
     page numbers.
     ( content , array ) → content

    Argument ———

   (sort-key): it => it.term
                                                                         function
     Sorting function to sort index entries.
     ( str )→ str
    - Argument —
   (grouping): it => upper(it.term.at(0))
                                                                         function
     Grouping function to group index entries by. Usually entries are grouped by
     the first letter of (term), but this can be changed to group by other keys. See
     below for an example.
     ( dictionary )→ str
    - Argument —
   (index-format): it => it.kind + ":" + it.term
                                                                         function
```

Function to generate term indices that will be used to check if two index entries are for the same index element. This allows you to combine different kinds as the same index entry.

```
( dictionary )→ str
```

This example creates an index of hex-colors. Since they all start with #, the grouping function is changed to group by the red component of the color.

```
#for c in (red, green, yellow, blue) {
 idx(
   c.to-hex(),
   kind: "color",
   display:box(inset:2pt,baseline:3pt,fill:c, text(white, c.to-hex())))
#block(height:10em, columns(2)[
 #make-index(
   kind: "color",
     entry-format: (term, pages) => [#term #box(width: 1fr, repeat[.])
(#pages.join(", "))\ ],
   grouping: it => it.term.slice(1, count:2)
 )
])
                                  ff
00
                                  #ff4136 .....(30)
#0074d9 .....(30)
                                  #ffdc00 ......(30)
2e
#2ecc40 ......(30)
```

Index entries are defined by a (term) and a (kind) that groups terms.

```
(
  (term) str
  (kind) str
  (main) bool
  (display) content
```

V.3 Examples

Part VI

Available commands

VI.1 API

VI.1.1 Commands

```
#cmd
                                                         #sarg
                             #cmd-
 #argref
                                                         #typeref
 #args
                             #cmdref
                                                         #var
 #argument
                             #command
                                                         #var-
                             #lambda
                                                         #variable
 #barg
 #builtin
                             #meta
 #carg
                             #property
#meta((name), (l): sym.angle.l, (r): sym.angle.r) → content
  Highlight an argument name.
  #meta[variable] → (variable)
    – Argument –
                                                                       str content
    (name)
     Name of the argument.
    – Argument –
   (l): sym.angle.l
                                                              str | content | symbol
     Prefix to (name).
    – Argument –
    (r): sym.angle.r
                                                              str | content | symbol
     Prefix to (name).
```

#arg(..⟨args⟩) → content

Shows an argument, either positional or named. The argument name is highlighted with #meta and the value with #value.

```
    #arg[name] → (name)
    #arg("name") → (name)
    #arg(name: "value") → (name): "value"
    #arg("name", 5.2) → (name): 5.2
    Argument
    ..(args)
```

Either an argument name (str) or a (name: value) pair either as a named argument or as exactly two positional arguments.

#barg((name)) → content

Shows a body argument.

Body arguments are positional arguments that can be given as a separat content block at the end of a command.

#barg[body] → [body]

```
Argument (name) str
```

#carg((name)) → content

Shows a "code" argument. alert)["Code" are blocks og Typst code wrapped in braces: { . . . }. They are not an actual argument, but evaluate to some other type.]

#carg[code] → {code}

```
Argument (name) str
```

#sarg(⟨name⟩) → content

Shows an argument sink / variadic argument.

#sarg[args] → ..(args)

```
Argument (name) str
```

$\#args(..\langle args \rangle) \rightarrow array$

Creates a list of arguments from a set of positional and/or named arguments.

str s and named arguments are passed to #arg, while content arguments are passed to #barg. The result should be unpacked as arguments to #cmd.

```
#cmd( "conditional-show", ..args(hide: false, [body]) )
#conditional-show((hide): false)[body]

Argument
..(args)
any
```

Either an argument name (str) or a (name: value) pair either as a named argument or as exactly two positional arguments.

```
#lambda(..(args), (ret): none) → content
```

Create a lambda function argument.

Lambda arguments may be used as an argument value with #arg.

To show a lambda function with an argument sink, prefix the type with two dots.

```
#lambda(int, str) → (int, str) → none
#lambda("ratio", "length") → (ratio, length) → none
#lambda("int", int, ret:bool) → (int, int) → bool
#lambda("int", int, ret:(int,str)) → (int, int) → (int, str)
#lambda("int", int, ret:(name: str)) → (int, int) → (name: str)
#lambda("int", int, ret:(str,)) → (int, int) → (str,)

Argument
..(args)
Argument types of the function parameters.
```

```
Argument
(ret): none

Type of the returned value.
```

```
#cmd(
    (name),
    (module): none,
    (ret): none,
    (index): true,
    (unpack): false,
    ..(args)
) → content
```

Renders the command (name) with arguments and adds an entry with (kind): "cmd" to the index.

..(args) is a collection of positional arguments created with #arg, #barg and #sarg (or #args).

All positional arguments will be rendered first, then named arguments and all body arguments will be added after the closing paranthesis. The relative order of each argument type is kept.

```
- #cmd("cmd", arg[name], sarg[args], barg[body])
- #cmd("cmd", ..args("name", [body]), sarg[args], module:"mod")
- #cmd("clamp", arg[value], arg[min], arg[max], module: "math", ret:int,
unpack:true)
• #cmd((name), ..(args))[body]
• #mod.cmd((name), ..(args))[body]
#math.clamp(
    (value),
    <min),
    (max)
  \rightarrow int
 - Argument -
(name)
                                                                          str
 Name of the command.
Argument –
(module): none
                                                                           str
 Name of the commands module. Will be used as a prefix and appear in the
 index.
- Argument -
(ret): none
                                                                   str | type
 Return type.

Argument —

(index): true
                                                                          bool
 If false, this location is not added to the index.

Argument —

(unpack): false
                                                                          bool
 If true, the arguments are shown in separate lines.
- Argument -
..(args)
                                                                       content
 Arguments for the command, created with individual argument commands
 (#arg, #barg, #sarg) or #args.
```

```
#cmd-(
  <name),
  (module): none,
  (ret): none,
  (index): false,
  (unpack): false,
  ..(args)
) → content
  Same as #cmd, but does not create an index entry ((index): false).
    – Argument –
    (name)
                                                                              str
     Name of the command.
    (module): none
                                                                              str
     Name of the commands module. Will be used as a prefix and appear in the
     index.
    - Argument -
    (ret): none
                                                                       str | type
     Return type.
    Argument —
    (index): false
                                                                             bool
     If false, this location is not added to the index.
    - Argument -
    (unpack): false
                                                                             bool
     If true, the arguments are shown in separate lines.
    Argument —
    ..(args)
                                                                          content
     Arguments for the command, created with individual argument commands
     (#arg, #barg, #sarg) or #args.
#var((name), (module): none, (index): true) → content
  Shows the variable (name) and adds an entry to the index.
  • #var[colors] → #colors
    - Argument -----
    (name)
                                                                              str
     Name of the variable.
```

```
- Argument —
    (module): none
                                                                               str
     Name of the commands module. Will be used as a prefix and appear in the
     index.

Argument -

   (index): true
                                                                               bool
     If false, this location is not added to the index.
#var-((name), (module): none, (index): false) → content
  Same as var, but does not create an index entry.
    Argument —
    (name)
                                                                               str
     Name of the variable.
    – Argument –
   (module): none
                                                                               str
     Name of the commands module. Will be used as a prefix and appear in the
     index.
    – Argument -
   (index): false
                                                                              bool
     If false, this location is not added to the index.
#builtin((name), (module): none) → content
 Displays a built-in Typst function with a link to the documentation.
  • #builtin[context] → #context

    #builtin(module:"math")[clamp] → #math.clamp

    – Argument –
   (name)
                                                                       str, content
     Name of the function (eg. raw).
    - Argument -
    (module): none
                                                                               str
```

#property(..(args))

Shows a command property (annotation). This should be used in the [body] of #command to annotate a function with some special meaning.

Properties are provided as named arguments to the #property function.

Optional module name.

↑ Introduced in

↓ Available until 0.1.4

Ø deprecated

t 0.12.0

→ context

The following properties are currently known to Mantys:

since version | str Marks this function as available since a given package version.

until version | str Marks this function as available until a given package version.

deprecated bool | version | str Marks this function as deprecated. If set to a version, the function is supposed to stay available until the given version.

changed version | str Marks function that changed in a specific package version.

compiler version | str Marks this function as only available on a specific compiler version.

requires-context bool Requires a function to be used inside #context.

☐ see #mantys, https://github.vom/jneug/typst-mantys

see array of str | label Adds references to other commands or websites.

✓ TODO

- Add documentation.
- Add (foo) paramter.

todo str | content Adds a todo note to the function.

Other named properties will be shown as given:

module: utilities

- Argument
..(args)

Property name / value pairs.

#command((name), (label): auto, (properties): (:), ..(args))[body] → content

Displays information of a command by formatting the name, description and arguments. See this commands description for an example.

The command is formated with #cmd and an index entry is added that is marked as the "main" index entry for this command.

any

```
- Argument -
    (name)
                                                                               str
     Name of the command.
                                                                 str | auto | none
    (label): auto
     Custom label for the command.
    - Argument -
    (properties): (:)
                                                                         dictionary
     Dictionary of properties to be passed to #property.
    - Argument -
    ..(args)
                                                                           content
     List of arguments created with the argument functions (#arg, #barg, #sarg)
     or #args.
    – Argument –
    (body)
                                                                           content
     Description of the command. Usually some text and a series of #argument
     descriptions.
#variable(
  <name),
  <types): none,
  (value): none,
  (label): auto,
  (properties): (:)
) [body] → content
  Displays information for a variable definition.
   #variable("primary", types:("color",), value:green)[
     Primary color.
   ]
   #primary: rgb("#2ecc40")
                                                                             color
        Primary color.
    – Argument –
    (name)
                                                                               str
     Name of the variable.
```

```
Argument —

   (types): none
                                                                              array
     Array of types to be passed to #dtypes.
   (value): none
                                                                                any
     Default value.
    Argument —
                                                                  str | auto | none
   (label): auto
     Custom label for the variable.
    - Argument ----
   (properties): (:)
                                                                          dictionary
     Dictionary of properties to be passed to #property.
    – Argument –
   (body)
                                                                            content
     Description of the variable.
#argument(
  <name),
  (is-sink): false,
  <types): none,
  (choices): none,
  (default): "__none__",
  (title): "Argument",
  (properties): (:),
  (command): none
) [body] → content
```

Displays information for a command argument. See the argument list below for an example.

```
#argument("category", default:"utilities")[
  #lorem(10)
#argument("category", choices: ("a", "b", "c"), default:"d")[
  #lorem(10)
#argument("style-args", title:"Style Arguments",
    is-sink:true, types:(length, ratio))[
  #lorem(10)
]

Argument —

 (category): "utilities"
                                                                          str
   Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
  – Argument –
 (category): "d"
                                                                          str
   Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
  - Style Arguments -
 ..(style-args)
                                                               length ratio
   Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
 - Argument -
(name)
                                                                            str
 Name of the argument.
- Argument -
(is-sink): false
                                                                           bool
 If this is a variadic argument.
 - Argument —
(types): none
                                                                   array | none
 Array of types to be passed to #dtypes.
 - Argument -
(choices): none
                                                                   array | none
 Optional array of valid values for this argument.
```

```
Argument

(default): "__none__" any

Optional default value for this argument. Will be automatically included in (choices) if it is missing. To allow none as a default value, the default is "__none___".

Argument
```

```
Argument (title): "Argument" str | none

Title in the border of the surronding #block.
```

```
Argument

(properties): (:)

Dictionary of properties to be passed to #property.
```

```
Argument
(command): none

Optional information about the command this argument is attached to.
Setting this to the name of a command will create a label for this argument in the form of @cmd:cmd-name.arg-name.

@cmd:argument.title → #argument.title

Tidy will automatically set this to the appropriate command.
```

```
Argument (body) content

Description of the argument.
```

#cmdref((name), (module): none) → content

Creates a reference to the command (name). This is equivalent to using @cmd:name.

- #cmdref("cmdref") → #cmdref
- @cmd:cmdref → #cmdref

```
Argument (name) str
```

```
Argument
(module): none

Optional module name.
```

```
#argref((command), (name), (module): none) → content
```

Creates a reference to the argument (name). This is equivalent to using @cmd:command.name.

```
• #argref("argref", "name") → #argref.name
```

• @cmd:argref.name → #argref.name

```
Argument
(command)

Name of the command.

Argument
(name)

Name of the argument.

str

Argument
(module): none

Optional module name.
```

#typeref[name] → content

Creates a reference to the custom type $\langle name \rangle$. This is equivalent to using @type:name.

Note that the custom type has to be declared first. See Section IV.2.0.a for more information about custom types.

```
Argument (name) (content Name of the custom type.
```

VI.1.2 Types

```
#custom-type #is-custom-type #type-box
#dtype #link-custom-type
#dtypes #schema
```

#type-box((name), (color)) → content

Creates a colored box for a type, similar to those on the Typst website.

#type-box("color", red) → color

```
Argument
(name)

Name of the type.

Argument
(color)

Color for the type box.
```

#is-custom-type((name)) → bool

小 context

Test if (name) was registered as a custom type.

```
Argument (name) str
```

#link-custom-type((name)) → **content**

Displays a type link to the custom type (name), if that name is registered as a #custom-type in the manual.

- #link-custom-type("document") → document
- #link-custom-type("theme") → theme

```
Argument (name) str
```

#dtype((name), (link): true) → content

Displays a type link to the type (name). (name) can either be a builtin type or a registered custom-type.

Builtin types are linked to the official Typst reference documentation. Custom types to their location in the manual. Some builtin types can be referenced by aliases like dict for dictionary.

If (name) is given as a str it is taken as the name of the type. If (name) is a #type or any other value, the type of the value is displayed.

- #dtype("string") → str
- #dtype("dict") → dictionary
- #dtype(1.0) → float
- #dtype(true) → bool
- #dtype("document") → document

```
Argument (name) any Name of the type.
```

```
Argument bool
```

If the type should be linked to the Typst documentation or the location of the custom type. Set to false to disable linking.

```
#dtypes(..(types), (link): true, (sep): box(inset: (left: 1pt, right: 1pt),
sym.bar.v)) → content
```

Creates a list of datatypes. Each value in ..(types) is passed to #dtype.

```
#dtypes(int, str, "theme", "dict") → int | str | theme | dictionary
```

#dtypes(int, float, sep: ", ") → int, float

```
#custom-type((name), (color): auto)
  Registers a custom type.
#schema((name), (definition), (color): auto, ..(args))
  Registeres a schema as a custom-type.
#_type-map
    Dictionary of builtin types, mapping the types name to its actual type.
#_type-aliases
    Dictionary of allowed type aliases, like dict for dictionary.
# type-colors
    Dictionary of colors to use for builtin types.
VI.1.3 Values
 #choices
                            #default
                                                       #value
#value((value), (parse-str): false) → content
  Shows (value) as content.
  • #value("string") → "string"
  • #value([string]) → [string]
  • #value(true) → true
  • \#value(1.0) \rightarrow 1.0
  #value(3em) → 3em
  • #value(50%) → 50%
  • #value(left) → left
  • #value((a: 1, b: 2)) → (a: 1, b: 2)
    Argument —
    (value)
                                                                               any

    Value to show.

    Argument –
    (parse-str): false
                                                                              bool
     If true, parses strings as type names.
#default((value), (parse-str): true) → content
  Highlights the default value of a set of #choices.
  • #default("default-value") → default-value
  • #default(true) → true
```

```
Argument (value) any
The value to highlight.

Argument (parse-str): true bool
```

```
#choices((default): "__none__", (sep): sym.bar.v, ..(values)) → content
Shows a list of choices possible for an argument.
```

If true, parses strings as type names.

If (default) is set to something else than "__none__", the value is highlighted as the default choice. If (default) is already present in (values) the value is highlighted at its current position. Otherwise (default) is added as the first choice in the list.

```
Argument (default): "__none__" any

The default value to highlight.
```

```
Argument (sep): sym.bar.v content

Seperator between choices.
```

```
Argument ...(values) any Values to choose from.
```

VI.1.4 Links

```
#github #link-builtin #preview
#github-file #link-docs #universe
#github-user #link-dtype #url
#link #link-repo
```

Utility function to create urls from components and url parameters.

• #url("forum.typst.app", "search", params: (q: "Mantys Package")) \rightarrow https://forum.typst.app/search?q=Mantys%20Package

#url("github@neugebauer.cc",→ mailto:github@neugebauer.cc

scheme:"mailto:")

- Argument (host) str

Host of the url. Like "github.com". Note that the host should not include an URL-Scheme.

Argument
..(components)

Path components of the URL.

```
Argument
(scheme): "https:/" + "/"

URL-Scheme to use.
```

```
Argument
(anchor): none
Str
Optional anchor part.
```

```
Argument (params): (:)

Dictionary of parameters to include in the URL.
```

#link(..(args))

Overloads the builtin #link function to add a (footnote) argument. #link(url, lable, footnote: false) will not show the (url) in a footnote, independent of #mantys.show-urls-in-footnotes.

#link-docs(..(path)) → content

Utility function to create a #link to the official Typst reference documentation.

- #link-docs("introspection/counter") → https://typst.app/docs/reference/introspection/counter
- #link-docs("introspection/counter", "counter") \rightarrow counter

```
Argument
..(path)

Path in the docs and an optional label.
```

#link-dtype(..(name)) → content

Utility function to create a #link to a data type in the official Typst reference documentation.

- #link-dtype("int") → https://typst.app/docs/reference/
- #link-dtype("int", "number") → number

In most cases you should rather use #dtype for linking directly to the documentation.

```
Argument
..(name)

Data type name and an optional label.
```

#link-builtin(..⟨name⟩) → content

Utility function to create a #link to a builtin function in the official Typst reference documentation.

- #link-builtin("strong") → https://typst.app/docs/reference/model/strong
- #link-builtin("strong", "emphasis") → emphasis

In most cases you should rather use #builtin for linking directly to the documentation.

```
Argument ...(name) str
```

```
#link-repo((repo), (host): "github.com", (path): none, (label): auto)
```

Utility function to create a link to a named repository, usually at *github.com*, but the hostname can be changed via the (host) argument.

With (repo): auto the repository stored in the document is used, if any.

- #link-repo(auto) → jneug/typst-mantys²⁸
- #link-repo("jneug/typst-finite") → jneug/typst-finite²⁹
- #link-repo("Kuchenmampfer/flautomat", host:"codeberg.org") \rightarrow Kuchenmampfer/flautomat 30

```
#github-user(..(name)) → content
```

Displays a link to a github.com user page. If (name) is empty or auto, the package author is linked (if a github username was provided during initialization).

```
- #github-user()
- #github-user("typst")

• @jneug<sup>31</sup>
• @typst<sup>32</sup>
```

 $^{{}^{28}}https://github.com/jneug/typst-mantys$

²⁹https://github.com/jneug/typst-finite

³⁰ https://codeberg.org/Kuchenmampfer/flautomat

³¹ https://github.com/jneug

³²https://github.com/typst

```
Argument
..(name)

Name of the user on GitHub, like jneug or auto.
```

```
#github(..(repo), (path): none, (label): auto) → content
```

Displays a #link to a github.com repository. If (repo) is empty or auto, the package repository is linked (if a repository URL was provided during initialization).

```
- #github()
- #github("typst/packages")
- #github(path: "/issues")
- #github("typst/packages", path: "/issues")

• jneug/typst-mantys<sup>3 3</sup>
• typst/packages<sup>3 4</sup>
• jneug/typst-mantys<sup>3 5</sup>
• typst/packages<sup>3 6</sup>
```

```
- Argument
..(repo)

Str | auto

Name of the repository on GitHub, like jneug/typst-mantys or auto.
```

```
Optional path to append to the URL. This is appended to the repository URL as is and can include anchors.
```

```
Argument (label): auto content auto

Custom label for the link.
```

```
#github-file(..(repo-filepath), (branch): "main") → content
```

Displays a #link to a github.com repository. If (repo) is empty or auto, the package repository is linked (if a repository URL was provided).

³³ https://github.com/jneug/typst-mantys

³⁴https://github.com/typst/packages

³⁵https://github.com/jneug/typst-mantys/issues

 $^{{\}it ^{36}} https://github.com/typst/packages/issues$

```
- #github-file("README.md")
- #github-file("typst/packages", "README.md")

• README.md<sup>37</sup>
• README.md<sup>38</sup>

Argument
..(repo-filepath)
```

```
Argument (branch): "main" str

The branch to link to.
```

#universe(..(pkg), (version): none) → content

Displays a #link to a Typst package in the Typst universe³⁹. If (pkg) is empty, the name of the package from the document is used.

- #universe() \rightarrow Mantys⁴⁰
- #universe("tidy") \rightarrow TIDY⁴¹
- #universe("tidy", version: version(0,4,0)) $\rightarrow \text{TIDY}^{42}$

Either a file path or a repository name and a filepath.

```
Argument
..(pkg)
str

An optional package name.
```

```
Argument (version): none version | str
```

#preview(..(pkg), (version): auto, (namespace): "preview") → content

Displays a #link to the typst/package⁴³ repository in the @preview namespace. (pkg) may include a version number for the package after a colon.

- $\#preview() \rightarrow @preview/Mantys^{44}$
- #preview(version: version(0,4,1)) \rightarrow @PREVIEW/MANTYS: $0.4.1^{45}$

 $^{^{37}} https://github.com/jneug/typst-mantys/tree/main/README.md\\$

³⁸https://github.com/typst/packages/tree/main/README.md

³⁹https://typst.app/universe

 $^{{}^{40}}https://typst.app/universe/package/Mantys$

⁴¹https://typst.app/universe/package/tidy

⁴²https://typst.app/universe/package/tidy/0.4.0

⁴³https://github.com/typst/package

⁴⁴https://github.com/typst/packages/tree/main/packages/preview/Mantys

```
• #preview("tidy") \rightarrow @PREVIEW/TIDY<sup>46</sup>
```

• #preview("tidy:0.3.1", namespace:"local") \rightarrow @LOCAL/TIDY:0.3.147

```
Argument
..(pkg)
str

An optional package name.
```

```
Argument (version): auto version | str

An optional version. If auto, (pkg) is checked for a version number.
```

VI.1.5 Elements

#alert	#info-alert	#secondary
#changed	#module	#since
#colorize	#name	#success-alert
#compiler	#note	#until
#deprecated	#package	#ver
#error-alert	#primary	#warning-alert
#frame	<pre>#requires-context</pre>	



#frame(..(args)) → content

Create a frame around some content.

Uses showybox and can take any arguments the #showybox command can take.

```
#frame(title:"Some lorem text")[#lorem(10)]

Some lorem text

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

```
Argument ...(args) content

Arguments for Showybox.
```



#alert((alert-type))[body] → content

An alert box to highlight some content.

⁴⁵ https://github.com/typst/packages/tree/main/packages/preview/Mantys/0.4.1

⁴⁶https://github.com/typst/packages/tree/main/packages/preview/tidy

⁴⁷https://github.com/typst/packages/tree/main/packages/local/tidy/0.3.1

```
#alert("success")[#lorem(10)]
                   Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
                  - Argument -
                 (alert-type)
                                                                                               str
                   The type of the alert. One of "info", "warning", "error" or "success".
                  - Argument -
                 ⟨body⟩
                                                                                           content
                   Content of the alert.
Styled by the
             #info-alert[body] → content
               An info alert.
                 #info-alert[This is an #cmd-[info-alert].]
                   This is an #info-alert.
                  - Argument -
                 (body)
                                                                                           content
                   Content of the alert.
Styled by the
             #warning-alert[body] → content
               A warning alert.
                 #warning-alert[This is an #cmd-[warning-alert].]
                   This is an #warning-alert.
                  - Argument -
                 (body)
                                                                                           content
                   Content of the alert.
Styled by the
             #error-alert[body] → content
               An error alert.
```

```
#error-alert[This is an #cmd-[error-alert].]
     This is an #error-alert.
    - Argument -
   (body)
                                                                         content
     Content of the alert.
#success-alert[body] → content
  A success alert.
   #success-alert[This is an #cmd-[success-alert].]
     This is an #success-alert.
    - Argument -
   (body)
                                                                         content
     Content of the alert.
#package((name)) → content
  Show a package name.

    #package("codelst") → CODELST

    – Argument –
   (name)
                                                                             str
     Name of the package.
#module(⟨name⟩) → content
  Show a module name.
  • #module("util") → util
    - Argument -
   (name)
                                                                             str
     Name of the module.
```

#name((name), (last): none) → content

Highlight human names (with first- and lastnames).

- #name("Jonas Neugebauer") \rightarrow Jonas Neugebauer
- #name("J.", last:"Neugebauer") \rightarrow J. Neugebauer

& Styled by the

Styled by the

Styled by the

```
Argument
(name)

First or full name.

Argument
(last): none

str | none
```



#colorize((color): "primary")[body] → content

Optional last name.

Sets the text color of $\langle body \rangle$ to a color from the theme. $\langle color \rangle$ should be a key from the theme.

• #colorize([Manual], color: "muted.fill") → Manual

```
Argument (body) content

Content to color.
```

```
Argument (color): "primary" str

Key of the color in the theme.
```

& Styled by the

#primary[body] → content

Colors [body] in the themes primary color.

• $\#primary[Manual] \rightarrow Manual$

```
Argument (body) content

Content to color.
```

Styled by the

#secondary[body] → content

Colors [body] in the themes secondary color.

#secondary[Manual] → Manual

```
Argument — (body) — content

Content to color.
```

#ver(..(args)) → version

Creates a #version from ..(args). If the first argument is a version, it is returned as given.

- $\#\text{ver}(1, 4, 2) \rightarrow 1.4.2$
- #ver(version(1, 4, 3)) \rightarrow 1.4.3

```
Argument ...(args) version | int |

Components of the version.
```

#note(..(args))[body] → content

Show a margin note in the left margin. See #since and #until for examples.

```
Argument
..(args)

Arguments to pass to #drafting.margin-note.

Argument
(body)

Body of the note.
```

Styled by the

#since(..(args)) → content

Show a margin-note with a minimal package version.

↑ Introduced in

```
• #since(1,2,3) →
```

☑ see #note, #ver

```
Argument
..(args)

Components of the version number.
```

Styled by the

#until(..(args)) → content

Show a margin-note with a maximum package version.

↓ Available until 1.2.3

```
• #until(1,2,3) →
```

☑ see #note, #ver

Styled by the

1.2.3

#changed(..(args)) → content

Show a margin-note with a version number.

☑ see #note, #ver

```
Argument _______..(args) ______int | version _______
```

& Styled by the

#deprecated → content

Show a margin-note with a deprecated warning.

● #deprecated() →

☑ see #note, #ver



1.2.3

#compiler(..(args)) → content

Show a margin-note with a minimal Typst compiler version.

• #compiler(1,2,3) →

```
☑ see #note, #ver
```

& Styled by the

#requires-context → content

Show a margin-note with a context warning.

```
• #requires-context() \rightarrow
```

☐ see #note, #ver

VI.1.6 Examples

```
#codesnippet #show-git-clone #sourcecode
#ex #show-import
#example #side-by-side
```

#sourcecode((title): none, (file): none, ..(args))[code] → content

Shows sourcecode in a #frame. See Section V.3 for more information on sourcecode and examples.

```
#sourcecode(
     title: "Example",
     file:"sourcecode-example.typ"
   )[```typ
   #let module-name = "sourcecode-example"
   ```]
 Example
 sourcecode-example.typ
 1 #let module-name = "sourcecode-example"
 – Argument –
 (title): none
 str
 A title to show on top of the frame.
 - Argument —
 <file>: none
 str
 A filename to show in the title of the frame.
 – Argument -
 ..(args)
 any
 Arguments for #codly.local.
 - Argument -
 content
 (code)
 A #raw block of Typst code.
#codesnippet((number-format): none, ..(args))[code] → content
 Shows some #raw code in a #frame, but without line numbers or other enhancements.
 #codesnippet[```typc
 let a = "some content"
 [Content: #a]
   ```]
      let a = "some content"
      [Content: #a]
```

```
Argument —

    (number-format): none
                                                                               bool
     If true, line numbers are shown.
    - Argument -
    ..(args)
                                                                                any
     Arguments for #codly.local.
    - Argument -
   (code)
                                                                           content
     A #raw block of Typst code.
#example(
  (side-by-side): false,
  (scope): (:),
  (imports): (:),
  (use-examples-scope): true,
  (mode): "markup",
  (breakable): false,
  ..(args)
)[example-code] → content
 Show an example by evaluating the given #raw code with Typst and showing the
 source and result in a #frame.
 See Section V.3 for more information on sourcecode and examples.
    – Argument –
   (side-by-side): false
                                                                           content
     Shows the source and example in two columns instead of the result beneath
     the source.
    - Argument -
   (scope): (:)
                                                                         dictionary
     A scope to pass to #eval.

Argument —

   (imports): (:)
                                                                         dictionary
     Additional imports for evaluating this example. Imports will be added as a
     preamble to (example-code).
    - Argument -
   (use-examples-scope): true
                                                                              bool
     Set to false to not use the global (examples-scope) passed to #mantys.
```

```
Argument (mode): "markup" str

The evaulation mode: "markup" | "code" | "math"
```

```
Argument (breakable): false bool

If true, the frame may brake over multiple pages.
```

```
Argument (example-code)

A #raw block of Typst code.
```

```
-- Argument ...(args) content
```

An optional second positional argument that overwrites the evaluation result. This can be used to show the result of a sourcecode, that can not evaulated directly.

```
#side-by-side(
  (side-by-side): true,
  (scope): (:),
  (imports): (:),
  (use-examples-scope): true,
  (mode): "markup",
  (breakable): false,
    ..(args)
)[example-code] → content
  Same as #example, but with (side-by-side): true.
```

```
(side-by-side): true content

Shows the source and example in two columns instead of the result beneath
```

the source.

```
Argument (scope): (:)

A scope to pass to #eval.
```

```
Argument dictionary
```

Additional imports for evaluating this example. Imports will be added as a preamble to (example-code).

Argument —

```
Argument —

   (use-examples-scope): true
                                                                             bool
     Set to false to not use the global (examples-scope) passed to #mantys.
    – Argument –
   (mode): "markup"
                                                                             str
     The evaulation mode: "markup" | "code" | "math"
    – Argument –
   (breakable): false
                                                                             bool
     If true, the frame may brake over multiple pages.
    - Argument —
   (example-code)
                                                                          content
     A #raw block of Typst code.
   Argument –
   ..(args)
                                                                          content
     An optional second positional argument that overwrites the evaluation
     result. This can be used to show the result of a sourcecode, that can not
     evaulated directly.
\#ex((sep): [ \#sym.arrow.r ], (mode): "markup", (scope): (:))[code] \rightarrow content
  Show a "short example" by showing (code) and the evaluation of (code) separated
 by (sep). This can be used for quick one-line examples as seen in #name and other
  command docs in this manual.
   - #ex(`#name("Jonas Neugebauer")`)
   - #ex(`#meta("arg-name")`, sep: ": ")

    #name("Jonas Neugebauer") → Jonas Neugebauer

   • #meta("arg-name"): (arg-name)
    Argument —
   (code)
                                                                          content
     The #raw code example to show.

Argument —

   (sep): [ #sym.arrow.r ]
                                                                          content
     The separator between (code) and its evaluated result.
```

```
- Argument —
   (mode): "markup"
                                                                             str
     One of "markup" | "code" | "math".
    - Argument -
   (scope): (:)
                                                                       dictionary
     A scope argument similar to examples-scope.
#show-import(
  (repository): "@preview",
  (imports): "*",
  (name): auto,
  (version): auto,
  (mode): "markup",
  (code): none
) → content
 Shows an import statement for this package. The name and version from the
 document are used by default.
   #show-import()
   #show-import(repository: "@local", imports: "mantys", mode:"code")
     #import "@preview/Mantys:1.0.1": *
     import "@local/Mantys:1.0.1": mantys
    - Argument –
   (repository): "@preview"
                                                                             str
     Custom package repository to show.
    - Argument —
   (imports): "*"
                                                                      str none
     What to import from the package. Use none to just import the package into
     the global scope.
    - Argument -
                                                                      str auto
   (name): auto
     Package name for the import.
    - Argument -
   (version): auto
                                                                   version auto
```

Package version for the import.

```
Argument (mode): "markup" str

One of "markup" | "code". Will show the import in markup or code mode.
```

```
Argument
(code): none

Additional code to add after the import. Useful if your package requires some more steps for initialization.

#show-import(name: "codly", version: version(1,1,1), code: "#show: codly-init")

#import "@preview/codly:1.1.1": *
#show: codly-init
```

```
#show-git-clone((repository): auto, (out): auto, (lang): "bash")
```

Shows a git clone command for this package. The name and version from the document are used by default.

```
#show-git-clone()
#show-git-clone(repository: "typst/packages", out:"preview/
mantys/1.0.0")

git clone https://github.com/jneug/typst-mantys Mantys/1.0.1

git clone https://github.com/typst/packages preview/mantys/1.0.0
```

```
Argument
(repository): auto

Custom package repository to show.
```

```
Argument (out): auto str | none | auto
Output path to clone into.
```

```
- Argument —
(lang): "bash"
                                                                             str
 Syntax language to passs to #raw.
```



#shortex

Alias for #ex.

VI.1.7 Icons

```
#icon
```

#icon((name), (fill): auto, ..(args)) → content

Shows an icon from the 0x6b/typst-octique⁴⁸ package.

```
- Argument -
(name)
                                                                            str
 • name: A name from the Octique icon set.
```

```
– Argument -
(fill): auto
                                                                        color | auto
```

• fill: The fill color for the icon. auto will use the fill of the surrounding text.

```
- Argument
..(args)
                                                                            any
 • ..args: Further args for the #octique command.
```

#info

The default info icon: (i)

#warning

The default info icon: **A**

#typst

Typst icon provided by **CODLY**⁴⁹: **1**

⁴⁸https://github.com/0x6b/typst-octique

⁴⁹https://typst.app/universe/package/codly

VI.2 Utilities

```
#utils.add-preamble #utils.dict-update #utils.rawc
#utils.build-preamble #utils.get-text #utils.rawi
#utils.create-label #utils.get-text-color #utils.split-cmd-name
#utils.dict-get #utils.parse-label #utils.url-encode
#utils.dict-merge #utils.place-reference #utils.ver
```

#utils.add-preamble((code), (imports)) → str

Adds a preamble for customs imports to (code).

```
Argument (code) content | text A Typst code block as #raw or #str.
```

```
Argument (imports) dictionary | str

The imports to add to the code. If it is a dictionary it will first be passed to #utils.build-preamble.
```

```
#utils.build-preamble((imports)) → str
```

Creates a preamble to attach to code before evaluating. (imports) is a dictionary with (module: imports) pairs, like (mantys: "*"). This will create a preamble of the form "#import mantys: *;"

```
#utils.build-preamble((mantys: "*", tidy: "parse-module, show-
module"))

#import mantys: *; #import tidy: parse-module, show-
module;
```

```
Argument (imports) dictionary (module: imports) pairs.
```

```
#utils.create-label((command), (arg): none, (module): none, (prefix): "cmd") \rightarrow label
```

Creates a #label to be placed in the document (usually by cmd:utils.place-reference). The created label is in the same format Tidy uses but will be prefixed with cmd to identify command references outside of docstrings.

```
    #str(mantys.utils.create-label("create-label", arg:"module", module:"utils")) → cmd:utils:create-label.module
```

```
– Argument –
    (command)
                                                                              str
     Name of the command.
    – Araument –
   (arg): none
                                                                              str
     Argument name to add to the label
    – Argument –
   (module): none
                                                                              str
     Optional module of the command.
    - Argument ---
   (prefix): "cmd"
                                                                              str
     Prefix for command labels. By default command labels are prefixed with cmd,
     eg. cmd:utils.create-label.
#utils.dict-get((dict), (key), (default): none) → any
```

Gets the value at $\langle key \rangle$ from the dictionary $\langle dict \rangle$. $\langle key \rangle$ can be in dot-notation to

access values in nested dictionaries.

Argument

```
(dict) dictionary

Dictionary to get Data from
```

```
Argument (key) str
```

```
Argument (default): none any

Default value, if the key can't be found.
```

$\#utils.dict-merge(..(dicts)) \rightarrow dictionary$

Recursivley merges the passed in dictionaries.

```
#get.dict-merge(
    (a: 1, b: 2),
    (a: (one: 1, two:2)),
    (a: (two: 4, three:3))
)
// gives (a:(one:1, two:4, three:3), b: 2)
```

```
– Argument –
    ..(dicts)
                                                                         dictionary
     Dictionaries to merge.
#utils.dict-update((dict), (key), (func), (default): none) → dictionary
  Updates the value in (dict) at (key) by passing the value to (func) and storing the
  result. If (key) is not in (dict), (default) is used instead.
  (key) may be in dot-notation to update values in nested dictionaries.
    - Argument -
    (dict)
                                                                  dictionary | any
     The dictionary to update.
    Argument —
    (key)
                                                                               str
     The key of the value. May be in dot-notation.
    – Argument -
    (func)
                                                                          function
     Update function: ( any )→ any

Argument —

    (default): none
                                                                               any
     Default value to use if (key) is not found in (dict).
#utils.get-text[it] → str
  Extracts text from content.
                                                                           content
    (it)
     A content element.
#utils.get-text-color((color), (light): white, (dark): black) → color
  Returns a light or dark color, depending on the provided (color).
    - #utils.get-text-color(red)
    - #utils.get-text-color(red.lighten(50%))
```

luma(100%)luma(0%)

VI Available commands VI.2 Utilities

```
color | gradient
    (color)
     Paint to get the text color for.

    Argument —

    (light): white
                                                                  color | gradient
     Color to use, if (color) is a dark color.
    – Argument –
    (dark): black
                                                                  color gradient
     Color to use, if (color) is a light color.
#utils.parse-label((label)) → dictionary
 Parses a #label text into a dictionary with the command and module name (if
 present). A label in the format "cmd:utils.split-cmd-name.arg-name" will be split
 into
  (name: "split-cmd-name", arg:"arg-name", module: "utils", prefix:"cmd")
 TODO: removing "mantys" prefix should happen in tidy template
    - Argument -
                                                                       label str
    (label)
     The label to parse.
#utils.place-reference((label), (kind), (supplement), (numbering): "1") → content
 Places a hidden #figure in the document, that can be referenced via the usual
 @label-name syntax.
    - Argument -
    (label)
                                                                             label
     Label to reference.
    - Argument -
   (kind)
                                                                               str
     Kind for the reference to properly step counters.
    - Argument -
   (supplement)
                                                                               str
     Supplement to show when referencing.
    Argument -
    (numbering): "1"
                                                                               str
     Numbering schema to use.
```

- Argument -

VI Available commands VI.2 Utilities

```
#utils.rawc((color), (code), (lang): none) → content
  Shows (code) as inline #raw text (with (block): false) and with the given (color).
 The language argument will be passed to #raw, but will have no effect, since (code)
  will have an uniform color.

    #utils.rawc(purple, "some inline code") → some inline code

   (color)
                                                                              color
     Color for the #raw text.
    – Argument -
   (code)
                                                                                 str
     String content to be displayed as #raw.
    - Argument –
   (lang): none
                                                                                str
     Optional language name.
#utils.rawi((code), (lang): none) → content
 Displays (code) as inline #raw code (with (inline): true).
  • #utils.rawi("my-code") → my-code

Argument –

   (code)
                                                                      str | content
     The content to show as inline raw.

Argument –

    (lang): none
                                                                                 str
     Optional language for highlighting.
#utils.split-cmd-name((name)) → dictionary
 Splits a string into a dictionary with the command name and module (if present).
 A string of the form "cmd:utils.split-cmd-name" will be split into
  (name: "split-cmd-name", module: "utils")
 (Note that the prefix cmd: is removed.)
    – Argument –
    (name)
                                                                                str
     The command optionally with module and cmd: prefix.
\#utils.url-encode(\langle t \rangle) \rightarrow str
```

• #utils.url-encode("ä b ß") \rightarrow %C3%A4%20b%20%C3%9F

URL-encode a string.

```
#utils.ver(..(args)) → version
```

Creates a #version object from the supplied arguments. (args) can be a string with a version in dot-notation.

- #utils.ver(1,2,3) $\rightarrow 1.2.3$
- #utils.ver("1.2.3") \rightarrow 1.2.3
- #utils.ver("1.2", 3) \rightarrow 1.2.3

VI.3 Shortcut collection of builtin types

The #typ dictionary is a shortcut to the common Typst builtin functions, types (#typ.t) and values (#typ.v).

VI.3.1 Shortcuts for builtin commands

#typ.set	<pre>#typ.fract</pre>	<pre>#typ.numbering</pre>
#typ.show	#typ.round	<pre>#typ.outline</pre>
<pre>#typ.import</pre>	<pre>#typ.clamp</pre>	#typ.par
#typ.context	<pre>#typ.min</pre>	<pre>#typ.parbreak</pre>
<pre>#typ.arguments</pre>	<pre>#typ.max</pre>	<pre>#typ.quote</pre>
<pre>#typ.array</pre>	<pre>#typ.even</pre>	<pre>#typ.strong</pre>
<pre>#typ.assert</pre>	#typ.odd	#typ.ref
#typ.auto	<pre>#typ.rem</pre>	<pre>#typ.table</pre>
<pre>#typ.bool</pre>	#typ.quo	<pre>#typ.terms</pre>
#typ.bytes	<pre>#typ.content</pre>	#typ.link
<pre>#typ.with</pre>	<pre>#typ.datetime</pre>	<pre>#typ.raw</pre>
<pre>#typ.calc</pre>	<pre>#typ.dictionary</pre>	<pre>#typ.text</pre>
#typ.abs	<pre>#typ.duration</pre>	#typ.highlight
#typ.pow	<pre>#typ.eval</pre>	<pre>#typ.linebreak</pre>
#typ.exp	<pre>#typ.float</pre>	<pre>#typ.lorem</pre>
#typ.sqrt	<pre>#typ.function</pre>	<pre>#typ.lower</pre>
#typ.root	<pre>#typ.int</pre>	<pre>#typ.upper</pre>
#typ.sin	<pre>#typ.label</pre>	<pre>#typ.overline</pre>
<pre>#typ.cos</pre>	<pre>#typ.module</pre>	<pre>#typ.underline</pre>
#typ.tan	<pre>#typ.none</pre>	<pre>#typ.smallcaps</pre>
<pre>#typ.asin</pre>	<pre>#typ.panic</pre>	<pre>#typ.smartquote</pre>
<pre>#typ.acos</pre>	<pre>#typ.plugin</pre>	#typ.strike
#typ.atan	<pre>#typ.regex</pre>	#typ.sub
<pre>#typ.atan2</pre>	<pre>#typ.repr</pre>	<pre>#typ.super</pre>
#typ.sinh	<pre>#typ.selector</pre>	#typ.align
#typ.cosh	<pre>#typ.str</pre>	<pre>#typ.alignment</pre>
#typ.tanh	<pre>#typ.style</pre>	<pre>#typ.angle</pre>
<pre>#typ.log</pre>	<pre>#typ.sys</pre>	#typ.block
#typ.ln	<pre>#typ.type</pre>	#typ.box
#typ.fact	<pre>#typ.version</pre>	<pre>#typ.colbreak</pre>
<pre>#typ.perm</pre>	<pre>#typ.bibliography</pre>	<pre>#typ.columns</pre>
#typ.binom	<pre>#typ.cite</pre>	<pre>#typ.direction</pre>
#typ.gcd	<pre>#typ.document</pre>	<pre>#typ.fraction</pre>
<pre>#typ.lcm</pre>	<pre>#typ.figure</pre>	#typ.grid
#typ.floor	#typ.emph	#typ.h
<pre>#typ.ceil</pre>	#typ.enum	#typ.hide
#typ.trunc	#typ.list	#typ.layout

#typ.length	#typ.frac	#typ.polygon
	••	
#typ.measure	#typ.lr	#typ.rect
<pre>#typ.move</pre>	<pre>#typ.mat</pre>	<pre>#typ.square</pre>
#typ.pad	#typ.op	#typ.stroke
<pre>#typ.page</pre>	<pre>#typ.primes</pre>	<pre>#typ.counter</pre>
#typ.pagebreak	<pre>#typ.roots</pre>	#typ.here
<pre>#typ.place</pre>	<pre>#typ.sizes</pre>	#typ.locate
<pre>#typ.ratio</pre>	<pre>#typ.styles</pre>	#typ.location
<pre>#typ.relative</pre>	<pre>#typ.underover</pre>	<pre>#typ.metadata</pre>
<pre>#typ.repeat</pre>	<pre>#typ.variants</pre>	<pre>#typ.query</pre>
#typ.rotate	#typ.vec	#typ.state
<pre>#typ.scale</pre>	<pre>#typ.circle</pre>	#typ.cbor
#typ.stack	<pre>#typ.color</pre>	#typ.csv
#typ.accent	<pre>#typ.ellipse</pre>	#typ.json
#typ.attach	<pre>#typ.gradient</pre>	<pre>#typ.read</pre>
#typ.cancel	<pre>#typ.image</pre>	#typ.toml
#typ.cases	#typ.line	#typ.xml
<pre>#typ.class</pre>	#typ.path	<pre>#typ.yaml</pre>
<pre>#typ.equation</pre>	<pre>#typ.pattern</pre>	

VI.3.2 Shortcuts for builtin types

#typ.t.auto	<pre>#typ.t.location</pre>	<pre>#typ.t.fraction</pre>
<pre>#typ.t.none</pre>	<pre>#typ.t.module</pre>	<pre>#typ.t.length</pre>
#typ.t.arguments	<pre>#typ.t.plugin</pre>	<pre>#typ.t.ratio</pre>
<pre>#typ.t.array</pre>	<pre>#typ.t.regex</pre>	<pre>#typ.t.relative</pre>
<pre>#typ.t.bool</pre>	<pre>#typ.t.selector</pre>	<pre>#typ.t.color</pre>
<pre>#typ.t.bytes</pre>	#typ.t.str	<pre>#typ.t.gradient</pre>
#typ.t.content	<pre>#typ.t.type</pre>	<pre>#typ.t.stroke</pre>
<pre>#typ.t.datetime</pre>	<pre>#typ.t.label</pre>	<pre>#typ.t.boolean</pre>
<pre>#typ.t.dictionary</pre>	<pre>#typ.t.version</pre>	<pre>#typ.t.string</pre>
#typ.t.float	<pre>#typ.t.alignment</pre>	#typ.t.arr
#typ.t.function	<pre>#typ.t.angle</pre>	<pre>#typ.t.dict</pre>
<pre>#typ.t.int</pre>	<pre>#typ.t.direction</pre>	#typ.t.integer
		#typ.t.func

VI.3.3 Shortcuts for builtin values

<pre>#typ.v.false</pre>	<pre>#typ.v.none</pre>	<pre>#typ.v.dict</pre>
<pre>#typ.v.true</pre>	#typ.v.auto	<pre>#typ.v.arr</pre>

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