

Definition 1. This is a package for theorem environments.

theofig

figure implementation of theorem environments

A [Typst](#) package for creation and customization
of theorem environments built on top of [std.figure](#).

github.com/Danila-Bain/typst-theorems

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Usage examples

Importing everything with * is recommended:

```
#import "@preview/theofig:0.0.1": *
```

Basic usage

```
#theorem[#lorem(5)] <theorem-1>  
  
#theorem[Lorem][#lorem(10)]  
  
#proof[It follows from @theorem-1.]  
  
,
```

Theorem 1. Lorem ipsum dolor sit amet.

Theorem 2 (Lorem). Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

Proof. It follows from Theorem 1. ■

Default environments

theofig defines a number of default environments with sensible default style.

```
#theorem[#lorem(5)]  
  
#lemma[#lorem(5)]  
  
#statement[#lorem(5)]  
  
#remark[#lorem(5)]  
  
#corollary[#lorem(5)]  
  
#example[#lorem(5)]  
  
#definition[#lorem(5)]  
  
#algorithm[#lorem(5)]  
  
#proof[#lorem(5)]  
  
#problem[#lorem(5)]  
  
#solution[#lorem(5)]
```

Theorem 1. Lorem ipsum dolor sit amet.

Lemma 1. Lorem ipsum dolor sit amet.

Statement 1. Lorem ipsum dolor sit amet.

Remark 1. Lorem ipsum dolor sit amet.

Corollary. Lorem ipsum dolor sit amet.

Example 1. Lorem ipsum dolor sit amet.

Definition 1. Lorem ipsum dolor sit amet.

Algorithm 1. Lorem ipsum dolor sit amet.

Proof. Lorem ipsum dolor sit amet. ■

Problem 1. Lorem ipsum dolor sit amet.

Solution. Lorem ipsum dolor sit amet.

Custom environments

All default environments of theofig package are defined as `.with()`-specializations of a function `theofig()`, which can also be used to create custom environments.

```

#let joke = theofig.with(supplement: "Joke")
#{theofig-kinds += ("joke", )}

#show figure-where-kind-in(theofig-kinds): set
text(gradient.linear(red, green, blue))

#joke[Why was six afraid of seven? Because 7 8 9.]
#joke[
    Parallel lines have so much in common...
    It's a shame they'll never meet.
]
#statement[A topologist is someone who can't tell
the difference between a coffee mug and a
doughnut.]

```

If the `supplement` option of `theofig()` is specified, the `kind` is chosen automatically as `lower(supplement)`, so in this example adding "`joke`" to `theofig-kinds` lets us apply styling to a joke environment together with all standard environments.

Languages support

Enabled by the `translate-supplement` option of `theofig()`, `supplement` is translated based on context-dependant `text.lang`. List of supported languages: cs, de, en, es, fr, it, ja, ko, pl, pt, ru, zh. Note that unlike supplement of a figure, a supplement in reference changes if `text.lang` is not the same as it was at the location of the figure.

```

#set text(lang: "ru")
#theorem[#lorem(5)]

#set text(lang: "es")
#theorem[#lorem(5)]

#set text(lang: "de")
#theorem[#lorem(5)]

#set text(lang: "ja")
#theorem[#lorem(5)]

```

Teopema 1. Lorem ipsum dolor sit amet.

Teorema 2. Lorem ipsum dolor sit amet.

Satz 3. Lorem ipsum dolor sit amet.

定理 4. Lorem ipsum dolor sit amet.

Ways to specify numbering style

Most default environments use `figure`'s default numbering, which is "`1`" (see Definition 1). Hence, we can change default numbering for many environments simultaneously using a `show` rule with `set figure(numbering: ...)` (see Definition II). Then, if we specify an argument `numbering` in the environment, it takes priority over `figure`'s numbering (see Definition C and Definition (iv)).

```

#define[Default @def-a-1.]<def-a-1>

#show figure-where-kind-in(
    theofig-kinds
): set figure(numbering: "I")
#define[Show rule @def-a-2.]<def-a-2>

#let definition = definition.with(numbering: "A")
#define[Redefined @def-a-3.]<def-a-3>

#define(numbering: numbering.with("(i"))[
    Argument @def-a-4.
]<def-a-4>

```

Definition 1. Default Definition 1.

Definition II. Show rule Definition II.

Definition C. Redefined Definition C.

Definition (iv). Argument Definition (iv).

Numbers out of order

Using the `number` option of `theofig()`, we can specify a number regardless of automatic numeration. Passing a `label` to `number` copies the `numbering` of the same environment by that `label`, which is useful for alternative definitions or equivalent statements of theorems (see Definition 2 and Definition 2').

```
#definition[Default.]  
  
#definition(numbering: none)[No numbering.]  
  
#definition[Equivalent to @def-2.]<def-1>  
  
#definition(number: <def-1>, numbering: "1'")[  
    Equivalent to @def-1.  
><def-2>  
  
#definition(number: 100)[  
    This is @def-100.  
><def-100>  
  
#definition(number: 5, numbering: "A")[  
    This is @def-3.  
><def-3>  
  
#definition(number: $e^pi$)[  
    This is @def-exp  
><def-exp>  
  
#definition[Back to default.]
```

Another use case for `number` argument is local numbering, such as multiple corollaries immediately after a theorem:

```
#theorem[]  
#corollary[]  
#theorem[]  
#corollary(number: "1")[]  
#corollary(number: "2")[]  
#theorem[]  
#corollary(number: "1")[]  
#corollary(number: "2")[]
```

Theorem 1.

Corollary.

Theorem 2.

Corollary 1.

Corollary 2.

Theorem 3.

Corollary 1.

Corollary 2.

Shared numbering

If you want different environments to share numbering, you just need to have them have the same `kind`, but different `supplement`:

```
#let lemma      = lemma.with(kind: "theorem")  
#let statement = statement.with(kind: "theorem")  
  
#theorem[#lorem(5)]  
#lemma[#lorem(5)]  
#statement[#lorem(5)]  
#theorem[#lorem(5)]
```

Theorem 1. Lorem ipsum dolor sit amet.

Lemma 2. Lorem ipsum dolor sit amet.

Statement 3. Lorem ipsum dolor sit amet.

Theorem 4. Lorem ipsum dolor sit amet.

One obvious limitation of that approach is that not only numbering will be shared. All styling of `theorem()` that is based on `show` rules will also apply to `lemma()` and `statement()`. To mitigate that, styling can be applied individually through setting arguments `format-caption`, `format-body`, `block-options`, and `figure-options`.

```
#let theorem = theorem.with(
  format-body: emph,
)
#let lemma      = lemma.with(
  kind: "theorem",
  format-caption: none,
)
#let statement = statement.with(
  kind: "theorem",
  block-options: (
    stroke: 1pt, radius: 3pt, inset: 5pt,
  ),
)
#theorem[#lorem(5)]
#lemma[#lorem(5)]
#lemma[#lorem(5)]
```

Show rules to specify a style

All environments are figure's under the hood, and they can be styled using show rules. The title of environment, such as “**Theorem 4 (Cauchy)**,” can be style using `show figure.caption: ...` rules.

```
// apply to one
#show figure.where(kind: "theorem"): smallcaps
// apply to some
#show figure-where-kind-in(
  ("solution", "problem")
): emph
// apply to all
#show figure-where-kind-in(theofig-kinds): set
figure(
  numbering: "I",
)
// apply to all except some
#show figure-where-kind-in(
  theofig-kinds, except: ("proof",),
): set text(blue)

#definition[#lorem(10)]
#theorem[#lorem(10)]
#proof[#lorem(10)]
#problem[#lorem(10)]
#solution[#lorem(10)]
```

Style examples

Note that in the following examples, in order for block-ed styles to be breakable without visual glitches, you should make blocks inside a figure sticky with something like

```
show figure-where-kind-in(theofig-kinds): set block(breakable: true, sticky: true).
```

Theorem 1. *Lorem ipsum dolor sit amet.*

Lemma 2. *Lorem ipsum dolor sit amet.*

Lemma 3. *Lorem ipsum dolor sit amet.*

Definition I. *Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do.*

THEOREM I. *LOREM IPSUM DOLOR SIT AMET, CONSECTETUR ADIPISCING ELIT, SED DO.*

Proof. *Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do.* ■

Problem I. *Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do.*

Solution. *Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do.*

```

#theorem[Default. #lorem(16)]

#show figure.where(kind: "definition"): it => {
  show figure.caption: emph
  show figure.caption: strong.with(delta: -300)
  it
}
#define[Italic caption. #lorem(16)]

#show figure.where(kind: "lemma"): it => {
  show figure.caption: underline.with(offset:
1.5pt)
  show figure.caption: strong.with(delta: -300)
  it
}
#lemma[Underline caption. #lorem(16)]

#show figure.where(kind: "proposition"): it => {
  show: emph
  show figure.caption: emph
  show figure.caption: smallcaps
  show figure.caption: strong.with(delta: -300)
  it
}
#proposition[Italic body, smallcaps caption.
#lorem(12)]

#show figure.where(kind: "corollary"): it => {
  show figure.caption: strong.with(delta: -300)
  show figure.caption: set text(tracking: 3pt)
  it
}
#corollary[Sparse caption. #lorem(16)]

#show figure.where(kind: "statement"): block.with(
  stroke: 1pt, radius: 3pt, inset: 5pt,
)
#statement[Block. #lorem(16)]

#show figure.where(kind: "solution"): block.with(
  stroke: (left: 1pt), inset: (right: 0pt, rest:
5pt)
)
#solution[Line to the left. #lorem(16)]

```

Limitations

Because `theofig()` implemented as figure, show rules applied to it affect nested figures of any kind, including images and tables:

Theorem 1. Default. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et.

Definition 1. Italic caption. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et.

Lemma 1. Underline caption. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et.

PROPOSITION 1. *Italic body, smallcaps caption.* Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et.

Corollary. Sparse caption. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et.

Statement 1. Block. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et.

Solution. Line to the left. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et.

```

@show figure.where(kind: "example"): it => {
  set figure(numbering: "I")
  show figure.caption: smallcaps
  it
}
@example[
  Example with an image:
#figure(caption: [Example Image])[  

  #image(  

    bytes(range(256).map(i => i.bit-and(i*i))),  

    format:(encoding:"luma8",width:32,height:8),  

    width: 100%,  

  )
]

```

In this example, `smallcaps` is applied not only to the `example()` title, but also to the actual `figure`'s caption, the same is true for numbering. It is an undesirable limitation, which leads us to either moving our figures outside of `theofig()` environments or styling each `theofig()` environment individually like in the following example, using parameters `format-caption`, `format-body`, or `format-note`.

```

#let example = example.with(  

  numbering: "I",  

  format-caption: it => smallcaps(strong(it)),  

)
@example[
  Example with an image:
#figure(caption: [Example Image])[  

  #image(  

    bytes(range(256).map(i => i.bit-and(i*i))),  

    format:(encoding:"luma8",width:32,height:8),  

    width: 100%,  

  )
]

```

EXAMPLE I. Example with an image:

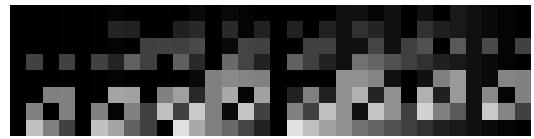


FIGURE I: EXAMPLE IMAGE

EXAMPLE I. Example with an image:

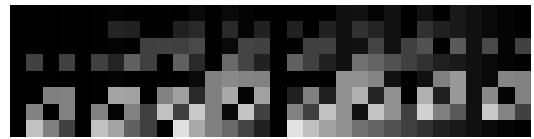


Figure 2: Example Image

Main functions

[theofig\(\)](#)

This is the core factory function which implements a theorem-like environment on top of figure. Most user-facing environments (e.g. `#theorem`, `#definition`, `#proof`) are created with `.with(...)` specializations of this function:

```
#let definition = theofig.with(kind: "definition", supplement: "Definition", translate-supplement: true)
#let theorem = theofig.with(kind: "theorem", supplement: "Theorem", translate-supplement: true)
#let proof = theofig.with(kind: "proof", supplement: "Proof", translate-supplement: true,
                        numbering: none, qed: true)

#let lemma = theofig.with(kind: "lemma", supplement: "Lemma", translate-supplement: true)
#let statement = theofig.with(kind: "statement", supplement: "Statement", translate-supplement: true)
#let remark = theofig.with(kind: "remark", supplement: "Remark", translate-supplement: true)
#let proposition = theofig.with(kind: "proposition", supplement: "Proposition", translate-supplement: true)
#let corollary = theofig.with(kind: "corollary", supplement: "Corollary", translate-supplement: true,
                            numbering: none)

#let example = theofig.with(kind: "example", supplement: "Example", translate-supplement: true)
#let algorithm = theofig.with(kind: "algorithm", supplement: "Algorithm", translate-supplement: true)
#let problem = theofig.with(kind: "problem", supplement: "Problem", translate-supplement: true)
#let solution = theofig.with(kind: "solution", supplement: "Solution", translate-supplement: true,
                           numbering: none)
```

If you wish this list were extended, open an issue in repository, and it will probably added shortly.

```
theofig(
    body: content,
    kind: auto str,
    supplement: auto str content,
    number: auto int label other,
    numbering: auto none str function,
    block-options: dictionary,
    figure-options: dictionary,
    format-caption: none function array of functions,
    format-body: none function array of functions,
    format-note: none function array of functions,
    separator: none str content,
    translate-supplement: bool,
    qed: bool,
    ..note: array with one element,
)
```

body content

The contents of the environment.

Example

```
#theorem[One body]
#theorem[Another body]
```

Theorem 1. One body

Theorem 2. Another body

kind auto or str default auto

The internal figure.kind value. If left `auto` and a string `supplement` is provided (not `auto` or `content`), the function will set `kind = lower(supplement)` so the kind can be inferred from the supplement like "`Theorem`" → "`theorem`".

Example

```
#let axiom = theofig.with(
    supplement: "Axiom", kind: "definition"
)
#definition[]
#axiom[
    Due to (`kind: "definition")`, numbering and
    show rules are shared with `#definition()``.
]
#definition[]
```

supplement `auto` or `str` or `content` default `auto`

The figure supplement (the textual label that appears as the environment title, e.g. `"Theorem"`, `"Definition"`). Behavior:

- `auto` — the function attempts to translate the kind using `theofig-translations` keyed by `text.lang` (so environments adapt to document language).
- If `supplement` explicitly provided as string and `translate-supplement`
== `true`, the code will try to translate the supplement using `theofig-translations` dictionary using contextual `text.lang`. If there is no match in dictionary or `translate-supplement` == `false`, supplement is used as is.
- If `kind` is `auto` and `supplement`, `kind` is set to `lower(supplement)` (automatic kind from supplement).

Example 1: Automatic kind selection

```
#let story = theofig.with(supplement: "Story")
#show figure.where(kind: "story"): text.with(
    fill: gradient.linear(
        red, orange, green, blue, fuchsia
    ),
)
#story[#lorem(25)]
#story[#lorem(5)]
```

Story 1. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliquam quaerat voluptatem. Ut enim aeneque doleamus.

Story 2. Lorem ipsum dolor sit amet.

Example 2: Content supplement

```
#let dream = theofig.with(
    supplement: [D#sub[R]#super[E]#sub[A]M],
    kind: "dream",
)
#dream[I am in a @dream-2.]<dream-2>
```

D_R^EA_M 1. I am in a D_R^EA_M 1.

Note that if `kind` was omitted in the example 2, enumeration would be shown, but counter would be 0 everywhere.

number `auto` or `int` or `label` or `other` default `auto`

Allows overriding the environment number. Behaviors:

- `auto` — default tracking (no manual override). `int` — uses that integer as the numbering (wrapped into a numbering function). If `numbering` == `none`, it produces an error.
- `label` — uses the counter number of an existing labeled figure; if `numbering` == `auto` the code also sets up `numbering` to produce the same numbering as the labeled figure's counter value.

- other values are used verbatim with `numbering = (...) => number`.
-

numbering `auto` or `none` or `str` or `function` default `auto`

The formatting function/style for the displayed number (e.g. Roman, alphabetic). Setting `auto` makes the function use either `figure.numbering` (default), otherwise this argument takes precedence over `figure.numbering`, which can be set using show rules or `figure-options` argument.

```
#definition[It is @def-r-1.]<def-r-1>
#show figure.where(kind: "definition"): set
figure(numbering: "A")
#definition[It is @def-r-2.]<def-r-2>
#let definition = definition.with(
  figure-options: (numbering: "I"),
)
#definition[It is @def-r-3.]<def-r-3>
#let definition = definition.with(
  numbering: "(i)",
)
#definition[It is @def-r-4.]<def-r-4>
#let definition = definition.with(
  numbering: numbering.with("(i")),
)
#definition[It is @def-r-5.]<def-r-5>
```

Definition 1. It is Definition 1.

Definition B. It is Definition B.

Definition III. It is Definition III.

Definition (iv). It is Definition iv.

Definition (v). It is Definition (v).

block-options `dictionary` default `(:)`

Options passed to the inner `block(...)` call; use to control visual block styling (stroke, inset, radius, breakable, width etc.) without affecting nested blocks (as show rules do).

figure-options `dictionary` default `(:)`

Options passed to `figure(...)`. If `numbering` is determined (not `auto`), `figure-options` is augmented with `numbering: numbering`.

format-caption `none` or `function` or `array of functions` default `strong`

Function(s) applied to the supplement (the title part) before rendering. If `none`, no special formatting is applied. Typical values: `emph`, `smallcaps`, `strong`, or user-provided functions.

Example

```
#theorem[]
#theorem(format-caption: none)[][]
#theorem(format-caption: emph)[][]
#theorem(format-caption:(smallcaps,underline))[]
```

Theorem 1.

Theorem 2.

Theorem 3.

THEOREM 4.

format-body `none` or `function` or `array of functions` default `none`

Function(s) applied to the body content (the environment contents). If `none`, no additional formatting is applied.

Example

```
#theorem[#lorem(5)]
#theorem(format-body: emph)[#lorem(5)]
#theorem(
    format-body: (text.with(blue), smallcaps,,
)[#lorem(4)]
```

Theorem 1. Lorem ipsum dolor sit amet.

Theorem 2. *LoREM IPSUM DOLOR SIT.*

Theorem 3. LOREM IPSUM DOLOR SIT.

format-note `none` or `function` or `array of functions` default `it => [(#it)]`

Function(s) applied to the note content (additional info to the caption, like authorship, date, or source). If `none`, no additional formatting is applied.

Example

```
#theorem[Note][#lorem(3)]
#theorem(format-note: none)[`{Note}`][#lorem(3)]
#theorem(format-note:
    it => strong(delta: -300, [(#it)])
)[Note][#lorem(3)]
#theorem(format-note: (raw, emph), "note")
[#lorem(3)]
```

Theorem 1 (Note). Lorem ipsum dolor.

Theorem 2 {Note}. Lorem ipsum dolor.

Theorem 3 [Note]. Lorem ipsum dolor.

Theorem 4 note. Lorem ipsum dolor.

separator `none` or `str` or `content` default `auto`

Text appended between caption (supplement + caption + numbering) and the body. Behavior:

- `auto` — follows `figure.caption.separator`. If `figure.caption.separator` is also auto, separator becomes `".`.
- Otherwise, this argument takes precedence over `figure.caption.separator`.

Example

```
#definition[Default separator.]
#show figure.where(
    kind: "definition"
): set figure.caption(separator: "?")
#definition[Separator from show rule.]
#let definition = definition.with(
    separator: none
)
#definition[Separator from `with()`
specialization.]
#definition(separator: ":") [Separator from
argument.]
```

Definition 1. Default separator.

Definition 2? Separator from show rule.

Definition 3 Separator from `.with()` specialization.

Definition 4: Separator from argument.

translate-supplement `bool` default `false`

Whether a provided `supplement` should be passed through `theofig-translations` dictionary to allow localized titles. If `true` and `supplement` provided, package will attempt to map the lowercased supplement through `theofig-translations` for the current contextual `text.lang`. Note that if figure and a reference to it are in different languages, figure caption and reference supplement will have different languages as well.

It is `false` by default but is set to `true` for all user-facing environments `#algorithm()`, `#corollary()`, `#definition()`, `#example()`, `#lemma()`, `#problem()`, `#proof()`, `#remark()`, `#solution()`, `#statement()`, and `#theorem()`.

`qed` `bool` default `false`

If `true`, a `math.qed` marker (rendered as a box █) is added after the body. This is used for `proof` to append the end-of-proof marker. Note that `math.qed` symbol can be changed using `show math.qed: ... rule`.

`..note` array with one element

Additional text in supplement, i.e. author, year, or source of the theorem, like in **Theorem 1 (Cauchy, 1831)**.

Example

```
#theorem[1910][\$1 + 1 = 2\$.]<@th-1>
#theorem[Newton-Leibniz][
    $ integral_a^b f'(x) dif x = f(b) - f(a). $
]
Note the absence of note in reference of @th-1.
```

Theorem 1 (1910). $1 + 1 = 2$.

Theorem 2 (Newton–Leibniz).

$$\int_a^b f'(x) dx = f(b) - f(a).$$

Note the absence of note in reference of Theorem 1.

show-figure-caption()

Shorthand for

```
#{
  it => {
    show figure.caption: function1
    show figure.caption: function2
    ...
    it
  }
}
```

for a provided list of functions.

Example

```
#show figure.where(
  kind: "theorem"
): show-figure-caption(
  emph, strong.with(delta: -300)
)

#lemma[Default style.]
#theorem[Custom style.]
```

If no functions are provided, `show-figure-caption()` is an identity function that leaves its argument unaffected.

`show-figure-caption(..functions: array of functions) -> function`

`..functions` array of functions

List of functions that are applied to `figure.caption` by `show figure.caption: func`.

figure-where-kind-in()

Selector for figures with selected kinds, combined with `selector.or()`.

Use case: Apply a single style to many theorem-like environments in one `#show` rule, or to style all default theorem kinds while excluding some (e.g. exclude `"proof"`):

```
#show figure-where-kind-in(
  theofig-kinds, except: ("proof",)
): block.with(
  stroke: 1pt, radius: 3pt, inset: 5pt,
)
#definection[]
#theorem[]
#proof[]

figure-where-kind-in(kinds: array, except: array) -> selector
```

`kinds` array

A list of figure kinds (e.g. `"theorem"`, `"definition"`, ...) to include in the selector.

Definition 1.

Theorem 1.

Proof.



```
except array default ()
```

A list of figure kinds to exclude from the resulting selector.

[theofig-reset-counters\(\)](#)

For every kind in kinds that is not in except, perform:

```
#counter{figure.where(kind: kind)).update(0)
```

which sets that figure counter to 0 (so next created figure increments from 1). Useful to restart numbering for groups of environments (e.g., at the start of a chapter, or before a block of examples).

Example

```
#let corollary = corollary.with(numbering: "1")
#show figure.where(kind: "theorem"): it => {
  theofig-reset-counters(("corollary",))
  it
}

#theorem[]
#corollary[Follows Theorem 1.]
#corollary[Follows Theorem 1.]

#theorem[]
#corollary[Follows Theorem 2.]
#corollary[Follows Theorem 2.]

theofig-reset-counters(kinds: array, except: array)
```

Theorem 1.

Corollary 1. Follows Theorem 1.

Corollary 2. Follows Theorem 1.

Theorem 2.

Corollary 1. Follows Theorem 2.

Corollary 2. Follows Theorem 2.

```
kinds array
```

List of figure kinds whose counters are to reset.

```
except array default ()
```

List of kinds to skip when resetting.

[algorithm\(\)](#)

```
#algorithm[Note][#lorem(3)]
```

Algorithm 1 (Note). Lorem ipsum dolor.

[corollary\(\)](#)

```
#corollary[Note][#lorem(3)]
```

Corollary (Note). Lorem ipsum dolor.

[definition\(\)](#)

```
#definition[Note][#lorem(3)]
```

Definition 1 (Note). Lorem ipsum dolor.

example()

```
#example[Note][#lorem(3)]
```

Example 1 (Note). Lorem ipsum dolor.

lemma()

```
#lemma[Note][#lorem(3)]
```

Lemma 1 (Note). Lorem ipsum dolor.

problem()

```
#problem[Note][#lorem(3)]
```

Problem 1 (Note). Lorem ipsum dolor.

proof()

```
#proof[Note][#lorem(3)]
```

Proof (Note). Lorem ipsum dolor. ■

proposition()

```
#proposition[Note][#lorem(3)]
```

Proposition 2 (Note). Lorem ipsum dolor.

remark()

```
#remark[Note][#lorem(3)]
```

Remark 1 (Note). Lorem ipsum dolor.

solution()

```
#solution[Note][#lorem(3)]
```

Solution (Note). Lorem ipsum dolor.

statement()

```
#statement[Note][#lorem(3)]
```

Statement 1 (Note). Lorem ipsum dolor.

theorem()

```
#theorem[Note][#lorem(3)]
```

Theorem 1 (Note). Lorem ipsum dolor.

theofig-kinds

List of default kinds of environments defined by this package:

"algorithm", "corollary", "definition", "example", "lemma", "problem", "proof", "remark", "solution", "statement", and "theorem".

The purpose to this variable is to be used together with selector `figure-where-kind-in()` for styling:

```
#show figure-where-kind-in(  
  theofig-kinds  
) : block.with(  
  stroke: 1pt, radius: 3pt, inset: 5pt,  
)  
#definition[]  
#theorem[]  
#proof[]
```

Definition 1.

Theorem 1.

Proof. ■

theofig-translations dictionary of dictionaries

List of translated supplements. Which is used by `theofig()` to localize default supplements depending on contextual `text.lang` if the `translate-supplement` option of `theofig()` is true.

List of supported languages:

```
#theofig-translations.keys().join(", ") .
```

For example German translations are

```
#theofig-translations.at("de")
```

List of supported languages: cs, de, en, es, fr, it, ja, ko, pl, pt, ru, zh.

For example German translations are

```
(  
  algorithm: "Algorithmus",  
  corollary: "Korollar",  
  definition: "Definition",  
  example: "Beispiel",  
  lemma: "Lemma",  
  problem: "Aufgabe",  
  proof: "Beweis",  
  proposition: "Proposition",  
  remark: "Bemerkung",  
  solution: "Lösung",  
  statement: "Aussage",  
  theorem: "Satz",  
)
```