

# Theoretic

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## 1 Summary

This package provides opinionated functions to create theorems and similar environments.

Default theorem environment and provided presets:

```
#theorem[This is a theorem.]
#proof[
  Ends with Equation? No Problem:
  $ norm(x) = sqrt( sum_(k = 1)^d x_k ) . $
]
#theorem(title: "Foo", label: <thm:foo>)[
  This is a named theorem.
]
#proof(title: [@thm:foo[-]])[
  - Ends with a list or enum? Easy.
]
```

*Theorem 1.1* This is a theorem.

*Proof.* Ends with Equation? No Problem:

$$\|x\| = \sqrt{\sum_{k=1}^d x_k}. \quad \square$$

*Theorem 1.2 (Foo)* This is a named theorem.

*Proof of Theorem 1.2.*

- Ends with a list or enum? Easy. □

References can be controlled by passing some specific supplements, see Section A.8 for more details.

## 2 Setup

Put the following at the top of your document:

```
#import "@preview/theoretic:0.1.1" as theoretic: theorem, proof, qed
#show ref: theoretic.show-ref // Otherwise, references won't work.

// set up your needed presets
#let corollary = theorem.with(kind: "corollary", supplement: "Corollary")
#let example = theorem.with(kind: "example", supplement: "Example", number: none)
// ..etc
```

See Section A.10 for a detailed description of customization options.

Except for `#show ref: theoretic.show-ref`, no “setup” is necessary. All configuration is achieved via parameters on the Section A.10 function, use `theorem.with(..)` for your preset needs.

The numbering of theorems is not configurable, but can be disabled (`number: none`) or temporarily overridden (`number: "X"` or `number: 2`). If your headings are numbered, it will use top-level heading numbers as the first component, otherwise it will simply number your theorems starting with Theorem 1.

Use `#theoretic.toc()` to get a list of theorems, list of definitions, a table of contents containing theorems, etc.

Put `#theoretic.solutions()` at the end of your document to get the solutions (every theorem environment accepts a second positional arguments, which gets used as the solution). (Nothing will appear unless there are solutions to show.)

*Exercise 2.1* Go look for the solution of this exercise at the end of this document.<sup>1</sup>

### 3 Proofs / QED

In most cases, it should place the QED symbol appropriately automatically:

```
#proof[This is a proof. $x=y$]
#proof[
  This is a proof.
  $ x = y $
]
#proof[
  #set math.equation(numbering: "(1)")
  This is a proof.
  $ x = y $
]
#proof[
  This is a proof.
  - #lorem(3) $ x = y $
]
#proof[
  This is a proof.
  - #lorem(3)
]
#proof[
  This is a proof.
  + #lorem(3)
  + #lorem(3)
  + #lorem(3)
  + #lorem(3)
]
```

*Proof.* This is a proof.  $x = y$  □

*Proof.* This is a proof.

$x = y$  □

*Proof.* This is a proof.

$x = y$  (1) □

*Proof.* This is a proof. □

• Lorem ipsum dolor.

$x = y$  □

*Proof.* This is a proof. □

• Lorem ipsum dolor. □

*Proof.* This is a proof.

1. Lorem ipsum dolor.

1. Lorem ipsum dolor.

1. Lorem ipsum dolor. □

Specifically, it works for lists, enums, and unnumbered block equations, which may be nested. If your proof ends with some other block, you should might want to place a `#qed()` manually. For proper alignment with a block equation, use

```
#set math.equation(numbering: (..) => {qed()}, number-align: bottom)
```

placed directly in front of the equation.

---

<sup>1</sup>Solution in Appendix

## 4 Examples

Example 4.1 (A complicated example showing some configuration possibilities)

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

**Theorem 1** Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed.

*Proof of Theorem 1.*

1. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna. *QED.*

**Theorem 2** **Name** Lorem ipsum dolor sit amet, consectetur.

Example 3 *Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.*

Example 4 (Named Example) *To avoid having examples and such show up in the toc, use the `toc.exclude` parameter.*

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

```
#set text(font: "Besley*", size: 9pt)
#let theorem = theorem.with(
  fmt-prefix: (s, n, t) => {
    text(font: "Besley* Narrow Semi")[#s #n]
    if t!= none {
      h(2pt)
      box(fill: oklch(70%, 0.17, 307.4deg, 20%), outset: (y: 4pt), inset: (x: 2pt), radius:
2pt, text(fill: oklch(44.67%, 0.15, 307.4deg), font: "Besley* Semi", t))
    }
    h(1em)
  },
  block-args: (
    stroke: (left: 0.5pt + oklch(44.67%, 0.15, 307.4deg)),
    outset: (left: 4pt, right: 0pt, y: 4pt),
  ),
)
#let ex = theorem.with(
  kind: "example",
  supplement: "Example",
  fmt-prefix: (s, n, t) => {
    text(font: "Besley*", stretch: 85%)[#s #n]
    if t!= none [ (#t)]
    h(1em)
  },
  fmt-body: (b, _) => { emph(b) },
)
#let qed = qed.with(suffix: smallcaps[#h(1fr)_qed._])
#let proof = proof.with(fmt-suffix: qed.with(force: false))

#lorem(20)
#theorem(label: <e.g>)[#lorem(9)]
#proof(title: [@e.g])[+ #lorem(18)]
#theorem(title: "Name")[#lorem(6)]
#ex[#lorem(10)]
#ex(title: "Named Example")[
  To avoid having examples and such show up in the toc, use the `toc.exclude` parameter.
]
#lorem(20)
```

## A Detailed Documentation of all Exported Symbols

### A.1 fmt-body

Function to format the body

Default value of `theorem.fmt-body`.

#### Parameters

```
fmt-body(  
  body: content,  
  solution: content  
) -> content
```

**body**    `content`

Theorem content.

**solution**    `content`

### A.2 fmt-prefix

Function to run at beginning of theorem.

Default value of `theorem.fmt-prefix`.

```
#fmt-prefix([Theorem], [1.34], none)...  
  
#fmt-prefix([Theorem],  
[1.34], [Pythagoras])...
```

*Theorem 1.34* ...

*Theorem 1.34 (Pythagoras)* ...

#### Parameters

```
fmt-prefix(  
  supplement: content,  
  number: content none,  
  title: content none  
) -> content
```

### A.3 proof

This is just `theorem()` with different defaults.

```
#proof[#lorem(5)]  
#proof(title: [@pythagoras(!)])[#lorem(6)]
```

*Proof.*    Lorem ipsum dolor sit amet.    ☐

*Proof of Pythagoras (Theorem A.3).*    Lorem  
ipsum dolor sit amet, consectetur.    ☐

## Parameters

```
proof(  
  kind: content,  
  supplement: content,  
  number: string,  
  fmt-prefix: function,  
  fmt-suffix: function,  
  ..args: arguments  
) -> content
```

**kind**     `content`

Default: `"proof"`

**supplement**     `content`

Default: `"Proof"`

**number**     `string`

Default: `none`

**fmt-prefix**     `function`

Default: `proof-fmt-prefix`

**fmt-suffix**     `function`

Default: `qed.with(force: false)`

**..args**     `arguments`

Same as for `theorem()`.

## A.4 proof-fmt-prefix

Function to run at beginning of proof.

Default value of `proof.fmt-prefix`.

```
#proof-fmt-prefix([Proof], none, none)...  
  
#proof-fmt-prefix([Proof],  
  none, [@pythagoras])...
```

*Proof.* ...

*Proof of Theorem A.3 (Pythagoras).* ...

## Parameters

```
proof-fmt-prefix(  
  supplement: content,  
  number: content none,  
  title: content none  
) -> content
```

## A.5 qed

Place a QED mark and clear the `_thm_needs_qed` flag, so that the theorem environment itself won't place one.

See `proof.fmt-suffix`.

## Parameters

```
qed(  
  suffix: content,  
  force: boolean  
) -> content
```

**force**    `boolean`

Whether to place suffix no matter the `_thm_needs_qed` flag.

Default: `true`

## A.6 restate

Re-state a theorem.

It will reuse the original kind, supplement, number, title, and body. It will *not* re-emit the solution or label, and it will use `toctitle: none` to avoid duplicate toc entries.

It is currently not able to pick up any of the other configuration of the original theorem, therefore pass `restate.is` if you modified e.g. any of the `fmt-s`.

```
#let proposition = theorem.with(  
  kind: "proposition",  
  supplement: "Proposition",  
  fmt-body: (b, s) => { text(fill: red, {b;s})  
})  
#proposition(title: "Funky!", label: <funky>)  
[Blah _blah_ blah.]  
Restated:  
#restate("funky")  
Restated with explicit kind:  
#restate(<funky>, is: proposition)
```

*Proposition A.1 (Funky!) Blah **blah** blah.*

Restated:

*Proposition A.1 (Funky!) Blah **blah** blah.*

Restated with explicit kind:

*Proposition A.1 (Funky!) Blah **blah** blah.*

## Parameters

```
restate(  
  label: label string,  
  is: function  
) -> content
```

**label**    label or string

Label of the theorem to restate.

**is**    function

Theorem function to use.

Default: theorem

## A.7 show-entry

Helper function to adapt actual outlines to look the same as those made with `toc()`.

Note: For typst versions  $\leq 0.12$ , this function is a bit “hacky” and might not always work. (It deconstructs the `outline.entry` based on heuristics.)

```
#outline(target: figure)  
#show outline.entry: theoretic.show-entry.with(  
  theoretic.toc-entry.with(hanging-indent: 60pt, /*...*/) )  
#outline(target: figure)  
#figure(  
  caption: [Example Figure],  
  block(height: 2em, width: 100%, fill: gradient.linear(..color.map.viridis))  
)
```

### Contents

Figure 1: Example Figure ..... A4

### Contents

Figure 1:    Example Figure ..... A4



Figure 1: Example Figure

## Parameters

```
show-entry(  
  toc-entry: function,  
  entry: outline.entry  
)
```

## toc-entry function

Customize `toc-entry()` used.

Expects a function taking five positional arguments (level, target, prefix, body, page).

## entry outline.entry

You usually won't set this directly

## A.8 show-ref

Show-rule-function to be able to @ labelled theorems.

Use via `#show ref: show-ref` at the beginning of your document.

```
#show ref: theoretic.show-ref
#theorem(label: <fact>, supplement: "Fact")
[#lorem(2)]
#theorem(label: <pythagoras>, title:
"Pythagoras")[#lorem(2)]
#theorem(label: <z1>, title: "Only Named",
number: none)[#lorem(2)]
#theorem(label: <y>, number: "Y")[#lorem(2)]
#theorem(label: "5", number: none)[#lorem(2)]
```

As a consequence of @fact and @pythagoras[!!]...

*Fact A.2* Lorem ipsum.

*Theorem A.3 (Pythagoras)* Lorem ipsum.

*Theorem (Only Named)* Lorem ipsum.

*Theorem Y* Lorem ipsum.

*Theorem* Lorem ipsum.

As a consequence of Fact A.2 and Pythagoras (A.3)...

The reference can be controlled via the supplement passed:

	BOTH	WITHOUT TITLE	WITHOUT NUMBER	NEITHER
@ref (Full)	Theorem A.3 (Pythagoras)	Fact A.2 / Theorem Y	Theorem (Only Named)	Theorem
@ref[-] (Compact)	Theorem A.3	Fact A.2 / Theorem Y	Theorem (Only Named)	Theorem
@ref[--] (Number)	A.3	A.2 / Y	(Only Named)	Theorem
@ref[!] (Inverted)	Pythagoras (Theorem A.3)	Fact A.2 / Theorem Y	Only Named (Theorem)	Theorem
@ref[!!!] (Compact Inverted)	Pythagoras (A.3)	Fact A.2 / Theorem Y	Only Named	Theorem
@ref[!!!!] (Name)	Pythagoras	Fact A.2 / Theorem Y	Only Named	Theorem
@ref[?] (Kind)	Theorem	Fact / Theorem	Theorem	Theorem
@ref[Custom] (Custom Supplement)	Custom A.3 (Pythagoras)	Custom A.2 / Custom Y	Custom (Only Named)	Custom

Note: the fact that references and links in this document are underlined in gray is achieved with a separate `@show` link: `it => underline(..)` rule, and not because of this function.

## Parameters

`show-ref(it: ref)`



## A.9 solutions

List all solutions, if any.

See Section B for how it looks. Currently not customizable, working on it.

### Parameters

```
solutions(title: content) -> content
```

**title** content

Title/heading to use.

Default: "Solutions"

## A.10 theorem

Theorem Environment

```
#set heading(numbering: none)

#theorem[If the headings are not numbered,
theorem numbering starts at 1.]

= Heading
#theorem(title: "Pythagoras")[
    Given a right-angled triangle, the length
    of the hypotenuse squared is equal to the
    sum of the squares of the remainig sides'
    lengths.
]
```

*Theorem 1* If the headings are not numbered, theorem numbering starts at 1.

### Heading

*Theorem 2 (Pythagoras)* Given a right-angled triangle, the length of the hypotenuse squared is equal to the sum of the squares of the remainig sides' lengths.

### Parameters

```
theorem(
    fmt-prefix: function,
    fmt-body: function,
    fmt-suffix: function none,
    block-args: dict,
    kind: string,
    supplement: content,
    number: auto none integer content,
    title: none content,
    toctitle: auto content array,
    label: label string,
    body: content,
    ..solution: content
) -> content
```

**fmt-prefix** function

Default: fmt-prefix

**fmt-body**    `function`

Default: `fmt-body`

**fmt-suffix**    `function` or `none`

Will be called at the end of the theorem if `_thm_needs_qed` hasn't been cleared. (E.g. by `qed()`)

Default: `none`

**block-args**    `dict`

Arguments to pass to the `#block[]` containing the theorem.

Default: `(:)`

**kind**    `string`

Used for filtering e.g. when creating table of theorems.

Default: `"theorem"`

**supplement**    `content`

What to label the environment.

It is recommended to keep kind and supplement matching (except for “subtypes”, e.g. one might have the kind of “Example” and “Counter-Example” both as `"example"`)

Default: `"Theorem"`

**number**    `auto` or `none` or `integer` or `content`

- If `auto`, will continue numbering from last numbered theorem.
- If `integer`, it will continue the numbering of later theorems from the given number.
- If `content`, it is shown as-is, with no side-effects.

```
#let corollary = theorem.with(  
  kind: "corollary",  
  supplement: "Corollary")  
  
#corollary[#lorem(2)]  
  
#corollary(number: none)[Skip number]  
#corollary[Resume numbering]  
  
#corollary(number: "X")[Custom "number"]  
#corollary[Resume numbering]  
  
#corollary(number: 10)[Set number]  
#corollary[Continue from set number]
```

```
Corollary A.3  Lorem ipsum.  
Corollary     Skip number  
Corollary A.4  Resume numbering  
Corollary X    Custom "number"  
Corollary A.5  Resume numbering  
Corollary A.10 Set number  
Corollary A.11 Continue from set number
```

Default: `auto`

**title** `none` or `content`

Title of the Theorem. Usually shown after the number.

Default: `none`

**toctitle** `auto` or `content` or `array`

Title of the Theorem to be used in outlines.

- `auto` to use the title.
- `none` to hide it from the outlines.

If you pass an array, in *sorted* outlines (`toc.sort`) it will be split into multiple entries. All but the first one are marked as secondary.

```
#theorem(  
  title: [A to Z],  
  toctitle: ([AAAAA], [ZZZZZ])  
) [  
  Compare how this appears in different  
  outlines!  
]
```

*Theorem A.12 (A to Z)* Compare how this  
appears in different outlines!

Default: `auto`

**label** `label` or `string`

Label (for references)

note: Simply putting a `<label>` after the `#theorem[]` does not work for referencing.

Default: `none`

**body** `content`

Theorem body

**..solution** `content`

Optional Solution. Pass zero or one positional arguments here.

```
#theorem[#lorem(5)][This will show up  
wherever `#theoretic.solutions()` is  
placed.]
```

*Theorem A.13* Lorem ipsum dolor sit  
amet.<sup>2</sup>

See `solutions()`.

---

<sup>2</sup>Solution in Appendix

## A.11 toc

Create an outline that includes named theorems.

Can be styled with show rules for `outline.entry()`. See the source code of this manual for an example.

```
#heading(outlined: false, level: 3)[
  Contents
]
#toc(depth: 1)
```

### Contents

1	Summary .....	1
	Theorem 1.2 Foo .....	1
2	Setup .....	1
3	Proofs / QED .....	2
4	Examples .....	3
	Example 4.1 A complicated example showing some configuration possibilities .....	3
	Theorem 2 Name .....	3
	Example 4 Named Example .....	3
A	Detailed Documentation of all Exported Symbols .....	A1
	Proposition A.1 Funky! .....	A3
	Theorem A.3 Pythagoras .....	A5
	Theorem Only Named .....	A5
	Theorem 2 Pythagoras .....	A6
	Theorem A.12 AAAAAA / ZZZZZZ .....	A8
	Theorem A.14 Z .....	A11
	Theorem A.15 A .....	A11
B	Solutions .....	A14

### Parameters

```
toc(
  depth: integer,
  exclude: list (string),
  level: integer auto,
  toc-entry: function,
  sort: bool
) -> content
```

**depth**    integer

Maximum depth of headings to consider

Default: 2

**exclude**    list (string)

list of theorem.kinds to ignore.

```
#heading(outlined: false, level: 3)[
  Table of Examples
]
#toc(
  depth: 0,
  exclude: ("proof", "solution", "theorem")
)
```

Default: ("proof", "solution")

### Table of Examples

Example 4.1 A complicated example  
showing some configuration  
possibilities ..... 3  
Example 4 Named Example ..... 3  
Proposition A.1 Funky! ..... A3

**level**    integer or auto

Fake level to use for theorems.

Set this to some level greater than the depth if to avoid conflict in your show rules for outline.entry.

If auto, it will use depth + 1.

Default: auto

**toc-entry**    function

Customize toc-entry() used.

Expects a function taking five positional arguments (level, target, prefix, body, page).

Default: toc-entry

**sort** `bool`

Whether to sort the entries alphabetically.

Only respected if depth is 0.

If true, this will also split entries where `toctitle` is an array into separate entries.

```
#theorem(title: "Z")[Blah blah.]
#theorem(title: "A")[Blah blah.]
#heading(outlined: false, level: 3)[
  Sorted Table of Theorems
]
#set text(size: 9pt)
#toc(
  depth: 0,
  sort: true,
  toc-entry: toc-entry.with(hanging-indent:
    60pt),
)
```

*Theorem A.14* (Z) Blah blah.

*Theorem A.15* (A) Blah blah.

### Sorted Table of Theorems

Theorem A.15	A .....	A11
Example 4.1	A complicated example showing some configuration possibilities ..	3
Theorem A.12	AAAAA .....	A8
Theorem 1.2	Foo .....	1
Proposition A.1	Funky! .....	A3
Theorem 2	Name .....	3
Example 4	Named Example .....	3
Theorem	Only Named .....	A5
Theorem A.3	Pythagoras .....	A5
Theorem 2	Pythagoras .....	A6
Theorem A.14	Z .....	A11
Theorem A.12	(ZZZZZZ) .....	A8

Default: `false`

## A.12 toc-entry

Create a toc entry.

Pass this to `toc()` using `.with(..)` to customize the `fmt-` parameters used.

This is used because since Typst 0.13, it is no longer possible to call `outline.entry` outside of an actual outline element, and one “cannot outline metadata”.

This manual uses

```
set par(justify: false)
let indents = (0pt, 15pt, 37pt)
let hang-indents = (15pt, 22pt, 54pt)
let text-styles = ((weight: 700), (size: 10pt), (size: 9pt, weight: 500), (size: 9pt, fill:
  luma(20%)), )
theoretic.toc(toc-entry: theoretic.toc-entry.with(
  indent: (level) => { indents.at(level - 1) },
  hanging-indent: (level) => { hang-indents.at(level - 1) },
  fmt-prefix: (prefix, level, _s) => {
    set text(..text-styles.at(level - 1), number-width: "tabular")
    prefix
    h(4pt)
  },
  fmt-body: (body, level, _s) => {
    set text(..text-styles.at(level - 1))
```

```

    body
  },
  fmt-fill: (level, _s) => {
    if level == 2 {
      set text(..text-styles.at(2))
      box(width: 1fr, align(right, repeat(gap: 9pt, justify: false, [.])))
    }
  },
  fmt-page: (page, level, _s) => {
    set text(..text-styles.at(level - 1), number-width: "tabular")
    box(width: 18pt, align(right, [#page]))
  },
  above: (level) => {
    if level == 1 {
      auto // paragraph spacing
    } else {
      7pt
    }
  },
  below: auto,
))

```

## Parameters

```

toc-entry(
  level: int,
  target: location,
  prefix: content none,
  body: content,
  page: content,
  secondary: boolean,
  indent: relative length function,
  hanging-indent: relative length function auto,
  above: relative length function,
  below: relative length function,
  fmt-prefix: function,
  fmt-body: function,
  fmt-fill: function,
  fmt-page: function
)

```

**secondary** `boolean`

This is true for entries where the toc-title is an array, the entry was split and this is *not* the first one (in order specified).

Default: `false`

**indent** `relative length` or `function`

How much to indent each entry.

- If length, it will be multiplied with level - 1.
- If function, will be called with the level as argument.

Default: `1em`

**hanging-indent**    `relative length` or `function` or `auto`

How much more to indent subsequent lines (in addition to `toc-entry.indent`).

If the prefix is shorter than this, this will lead to a gap between prefix and body; If the prefix is longer, the body will start immediately after the prefix.

- If function, will be called with the level as argument.
- If auto, will use the width of the prefix

```
#let example-entry = theoretic.toc-  
entry.with(1, here(), [Section 1.],  
lorem(6), [0])  
#let example-entry-2 = theoretic.toc-  
entry.with(2, here(), [Section 1.1.],  
lorem(6), [0])  
  
// aligned with end of prefix  
#example-entry(hanging-indent: auto)  
#example-entry-2(hanging-indent: auto)  
  
#example-entry(hanging-indent: 1em)  
#example-entry-2(hanging-indent: 1em)  
#example-entry(hanging-indent: 80pt)  
#example-entry-2(hanging-indent: 80pt)
```

```
Section 1. Lorem ipsum dolor sit amet,  
consectetur. .... 0  
Section 1.1. Lorem ipsum dolor sit  
amet, consectetur. .... 0  
Section 1. Lorem ipsum dolor sit amet,  
consectetur. .... 0  
Section 1.1. Lorem ipsum dolor sit  
amet, consectetur. .... 0  
Section 1.      Lorem ipsum dolor sit  
amet, consectetur. . . . 0  
Section 1.1.    Lorem ipsum dolor sit  
amet, consectetur. . . 0
```

Default: `auto`

**above**    `relative length` or `function`

- If function, will be called with the level as argument.

Default: `0.7em`

**below**    `relative length` or `function`

- If function, will be called with the level as argument.

Default: `0.7em`

**fmt-prefix**    `function`

Default: (prefix, level, secondary) => { if prefix != none { prefix; h(0.5em, weak: false) } }

**fmt-body**    `function`

Default: (body, level, secondary) => { if secondary [(#body) ] else [#body ] }

**fmt-fill**    `function`

Default: (level, secondary) => { box(width: 1fr, repeat[.~]) }



**fmt-page**    **function**

Default: (page, level, secondary) => { page }

### A.13 thm-counter    counter

Counts theorems.

In most cases, it is not necessary to reset this manually, it will get updated accordingly if you pass an integer to `theorem.number`.

## B Solutions

*Solution of Exercise 2.1.*    Yay! you found it!

*Solution of Theorem A.13.*    This will show up wherever `#theoretic.solutions()` is placed.