

sheetstorm

A template for assignment sheets.

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<https://github.com/rabuu/sheetstorm>

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1. EXAMPLE

```
#import "@preview/sheetstorm:0.5.0": *

#show: assignment.with(
  course: smallcaps[Sheetstorm 101],
  title: "Assignment Example",
  authors: (
    (name: "John Doe", id: 123456),
    (name: "Erika Mustermann", id: 654321),
  ),
  info-box-enabled: true,
  score-box-enabled: true,
  // Here you can customize the layout of the page, the header, the widgets.
  // Look at the parameters of the `assignment` function.
)

#task(name: "Introduction")
  This is #link("https://github.com/rabuu/sheetstorm")[`sheetstorm`],
  a template library that provides a sane default layout for assignment submissions
  with the option of customizability.

  Here you would write down your solutions for the first task:
  #lorem(30)
]

#task(name: "Subtasks", label: "task-subtasks", points: (1, 2))
  #subtask(label: "banana") [What is the color of a banana?]
    A banana is *yellow*.
  ]

  #subtask[Solve the following equations for  $x$ .]
    #subtask[ $x^2 = 4 \implies x = \text{plus.minus } 2$ ]
    #subtask[ $x = \text{"color of banana"} \implies x = \text{"yellow"}$ , see @banana.]
  ]
]

#task(points: 11)
  Another task but without a name.
  You can reference tasks from above where you set a label, for example @task-subtasks.

  Then you can do some cool math. You could, for example, try to proof that:
  $ forall n gt.eq 0: sum_(i=0)^n i = (n dot (n+1))/2 $

  #proof[
    It is easy to see that the statement is true for the number $0$:
    $sum_(i=0)^0 i = 0 = (0 dot 1)/2$.
    Let's assume that the statement is true for some $n$. It follows:
    $
      sum_(i=0)^(n+1) i \& = sum_(i=0)^n i + (n+1)
      = (n dot (n+1)) / 2 + (n + 1)
      = (n^2 + n) / 2 + (2n + 2)/2 \
      \& = (n^2 + 3n + 2) / 2
      = ((n+1) dot (n+2)) / 2
    $
  ]
]

#task(points: 1, bonus: true)
  #theorem(name: "Very smart formula", label: "example-theorem")
    Let  $x$  be a natural number. Then:
    $ x + 1 + 1 = x + 2 $
  ]
  #proof[The proof of @example-theorem is trivial.]

  #lorem(50)
]
```

2. TEMPLATE SETUP

Function: assignment

Setup the document as an assignment sheet.

This is the template entrypoint and is expected to be used at the top of the document like so:

```
#show: assignment.with(  
  title: "A cool title",  
  page-numbering: "1",  
  // ...  
)
```

Here you can set many options to customize the template's behavior. Some of them replace settings that you would normally use Typst's built-in functions for. For a smooth experience, prefer to set the options here.

Parameters

```
assignment(  
  title: content str none,  
  title-style: function,  
  title-size: length,  
  course: content str none,  
  authors: array dictionary str none,  
  tutor: content str none,  
  date: datetime none,  
  date-format: auto str,  
  margin-left: auto length,  
  margin-right: auto length,  
  margin-bottom: auto length,  
  margin-above-header: auto length,  
  margin-below-header: auto length,  
  todo-show: bool,  
  todo-box: function,  
  paper: str,  
  page-numbering: none str function,  
  header-show-title-on-first-page: bool,  
  header-extra-left: content str,  
  header-extra-center: content str,  
  header-extra-right: content str,  
  header-tutor-prefix: content str,  
  header-columns: array,  
  header-align: array,  
  header-column-gutter: length,  
  header-row-gutter: length,  
  header-padding-top: length,  
  header-padding-bottom: length,  
  disable-page-configuration: bool,  
  initial-task-number: int,  
  widget-order-reversed: false,  
  widget-column-gap: length,  
  widget-row-gap: length,  
  widget-spacing-above: length,  
  widget-spacing-below: length,  
  score-box-enabled: bool,  
  score-box-tasks: array auto,  
  score-box-show-points: bool,  
  score-box-bonus-counts-for-sum: bool,  
  score-box-bonus-show-star: bool,
```

```

score-box-inset: length,
score-box-cell-width: length,
info-box-enabled: bool,
info-box-show-ids: bool,
info-box-show-emails: bool,
info-box-inset: length,
info-box-gutter: length,
hyperlink-style: function,
doc: content
) -> content

```

title `content` or `str` or `none`

The document's title.

Default: `none`

title-style `function`

A function that provides styling to the title.

Example

```

#show: assignment.with(
  title: [My *cool* title],
  title-style: t => t,
)

```

Default: `t => underline[*#t*]`

title-size `length`

The text size of the title.

Default: `1.6em`

course `content` or `str` or `none`

The course title, displayed in the header.

Default: `none`

authors `array` or `dictionary` or `str` or `none`

The name and information of the author/s of the document.

Can be just a single author or an array of authors. An author can be just the name as string or a dictionary with the fields:

- name (mandatory)
- id (optional)
- email (optional)

Example

```

#show assignment.with(
  authors: (
    (name: "John Doe", id: 123456, email: "john@doe.com"),
    (name: "Max Mustermann", id: 761524),
    "Bernd",
  )
)

```

```
),  
)
```

Default: **none**

tutor **content** or **str** or **none**

The name of the tutor, displayed in the header.

Default: **none**

date **datetime** or **none**

The document date, displayed in the header.

Default: `datetime.today()`

date-format **auto** or **str**

The date format that is used to display the document date.

When set to **auto**, a default value based on your document language is chosen.

Default: **auto**

margin-left **auto** or **length**

The left margin of the document. Prefer this to using `page.margin`.

Default: **1.7cm**

margin-right **auto** or **length**

The right margin of the document. Prefer this to using `page.margin`.

Default: **1.7cm**

margin-bottom **auto** or **length**

The bottom margin of the document. Prefer this to using `page.margin`.

Default: **1.7cm**

margin-above-header **auto** or **length**

The top margin of the document, taking the header into account. Prefer this to using `page.margin`.

Default: **0cm**

margin-below-header **auto** or **length**

The margin between the header and the rest of the document. Prefer this to using `page.margin`.

Default: **0cm**

todo-show `bool`

Whether to show a warning beside the title if there are any TODOs in the document.

Default: `true`

todo-box `function`

The layout for the TODO box that may be displayed in the title.

Set this using the provided `todo-box` function.

Example

```
#show: assignment.with(  
  todo-box: todo-box.with(stroke: none),  
)
```

Default: `todo-box`

paper `str`

The document's paper size. Prefer this to using `page.paper`.

Default: `"a4"`

page-numbering `none` or `str` or `function`

The page numbering. Prefer this to using `page.numbering`.

Default: `"1 / 1"`

header-show-title-on-first-page `bool`

Whether to show the title in the header on the first page as well.

Default: `false`

header-extra-left `content` or `str`

Extra content that is displayed in the left header column.

Default: `none`

header-extra-center `content` or `str`

Extra content that is displayed in the center header column.

Default: `none`

header-extra-right `content` or `str`

Extra content that is displayed in the right header column.

Default: `none`

header-tutor-prefix `content` or `str`

The word that prefixes the tutor name in the header.

Default: `context` `i18n.translate("Tutor")`

header-columns `array`

The columns settings of the header.

This can break the entire header if you play with it carelessly.

Default: `(1fr, 1.25fr, 1fr)`

header-align `array`

The alignment of the header columns.

This can break the entire header if you play with it carelessly.

Default: `(left, center, right)`

header-column-gutter `length`

The space between the header columns.

Default: `0.5em`

header-row-gutter `length`

The space between the header and the header line.

Default: `0.5em`

header-padding-top `length`

The top padding of the header.

Default: `0.8cm`

header-padding-bottom `length`

The bottom padding of the header.

Default: `1cm`

disable-page-configuration `bool`

Whether to disable basic page settings.

Don't use this option in a normal document. It is included to use in sepecific settings like example rendering.

Default: `false`

initial-task-number `int`

The initial counter value that is used for task numbering.

Default: `1`

widget-order-reversed `false`

Whether to reverse the order in which the widgets are displayed.

By default, the info box is display first and the score box second.

Default: `false`

widget-column-gap `length`

The horizontal gap between the widgets.

Default: `4em`

widget-row-gap `length`

The vertical gap between the widgets.

Default: `1em`

widget-spacing-above `length`

The padding above the widgets.

Default: `0em`

widget-spacing-below `length`

The padding below the widgets.

Default: `1em`

score-box-enabled `bool`

Whether to display the score box.

Default: `false`

score-box-tasks `array` or `auto`

Set the score box task list manually.

If `auto` is set, figure out the tasks from the context.

Default: `auto`

score-box-show-points `bool`

Whether to show the points per task.

Default: `true`

score-box-bonus-counts-for-sum `bool`

Whether the points of bonus tasks count into the sum.

Default: `false`

score-box-bonus-show-star `bool`

Whether to mark bonus tasks in the score box with a star.

Default: `true`

score-box-inset `length`

The inset value of the score box.

Default: `0.7em`

score-box-cell-width `length`

The cell-width value of the score box.

Default: `4.5em`

info-box-enabled `bool`

Whether to display the info box.

Default: `false`

info-box-show-ids `bool`

Whether to show the authors id values the info box.

Default: `true`

info-box-show-emails `bool`

Whether to show the authors email values the info box.

Default: `true`

info-box-inset `length`

The inset value of the info box.

Default: `0.7em`

info-box-gutter `length`

The gutter value of the info box.

Default: `1em`

hyperlink-style `function`

A function that is used to style hyperlinks created by `link`.

This does *not* have an effect on in-document links but only links that are specified using a string.

Default: `underline`

doc **content**

The document's body.

3. TASKS

Function: task

Create a task section.

Use this function as primary way to structure your document.

Example

```
#task(name: "Pythagorean theorem", points: 1)[
  _What is the Pythagorean theorem?_

  $ a^2 + b^2 = c^2 $
]
```

Parameters

```
task(
  name: content str none,
  task-prefix: content str,
  label: str none,
  supplement: auto content str function none,
  counter: auto int function,
  counter-show: bool,
  skip: none int,
  todo: bool,
  todo-show: bool,
  todo-box: function,
  points: int array,
  points-show: bool,
  points-prefix: content str,
  begin-at-new-page: bool,
  bonus: bool,
  bonus-style: function none,
  hidden: bool,
  space-above: auto length,
  space-below: auto length,
  task-text-style: function,
  ..body-args: content..
) -> content
```

name content or str or none

The name of the task.

Default: none

task-prefix content or str

The prefix that is displayed before the task count.

Default: context i18n.translate("Task")

label str or none

A label that you can reference or query.

Default: none

supplement `auto` or `content` or `str` or `function` or `none`

The supplement of the task which is used in outlines and references.

When set to `auto`, it uses the same value as `task-prefix`.

Default: `auto`

counter `auto` or `int` or `function`

Set the value of the task counter manually.

If set to `auto`, the counter is not reset. Regardless of this value, the counter is stepped at the end of the task.

Default: `auto`

counter-show `bool`

Whether to display the value of the task counter in the task's title.

Default: `true`

skip `none` or `int`

Step the task counter by the given number.

This is applied after the general counter update (see `counter` parameter).

Default: `none`

todo `bool`

Whether to mark the task with a TODO box.

Default: `false`

todo-show `bool`

Whether to show a warning beside the title if there are any TODOs in the task.

Default: `true`

todo-box `function`

The layout for the TODO box that may be displayed in the title.

Set this using the provided `todo-box` function.

Example

```
#task(todo-box: todo-box.with(stroke: none))[
  #todo[Some TODO message.]
]
```

Default: `todo-box`

points `int` or `array`

How many points the task can give.

If there are subtasks, you can specify an array of numbers.

Default: `none`

points-show `bool`

Whether to show the points on the right side of the page above the task.

Default: `true`

points-prefix `content` or `str`

The word that is displayed before the points.

Default: `context i18n.translate("Points")`

begin-at-new-page `bool`

Whether to insert a colbreak before the task.

Technically, this breaks the column and not the page but a single-column layout is assumed.

This does not apply to the very first task where it usually makes no sense to break before.

Default: `false`

bonus `bool`

Whether the task is a bonus task.

Default: `false`

bonus-style `function` or `none`

A styling function applied to the title of bonus tasks.

Default: `t => [#t (#context i18n.translate("Bonus"))]`

hidden `bool`

Whether the task is hidden in the score box.

Default: `false`

space-above `auto` or `length`

Padding above the task.

Default: `auto`

space-below `auto` or `length`

Padding below the task.

Default: `2em`

task-text-style `function`

A function that provides styling to the description of a task.

Default: `emph`

..body-args `content..`

The body of the task. Either:

- `[content]`
- `[task text][content]`

Function: subtask

Create a subtask subsection.

Use this inside of the main task sections. Subtasks can be nested.

Example

```
#task[
  #subtask[Some task text.][This is the first subtask.]
  #subtask[
    #subtask[This is a nested subtask.]
    #subtask[This is another.]
  ]
]
```

Parameters

```
subtask(
  marker: auto str,
  marker-gap: length,
  label: str none,
  supplement: content str function none,
  counter: auto int function,
  skip: none int,
  numbering: array str,
  numbering-default: auto str,
  numbering-cycle: bool,
  min-indent: length,
  begin-at-new-page: bool,
  task-text-style: function,
  ..body-args: content..
) -> content
```

marker `auto` or `str`

The subtask marker.

When set to `auto`, this uses the subtask counter with the given numbering.

Default: `auto`

marker-gap `length`

The space between marker and subtask body.

Default: `0.5em`

label `str` or `none`

A label that you can reference or query.

Default: `none`

supplement `content` or `str` or `function` or `none`

The supplement of the subtask which is used in outlines and references.

Default: `context i18n.translate("Subtask")`

counter `auto` or `int` or `function`

Set the value of the subtask counter (for the current depth) manually.

If set to `auto`, the counter is not reset. Regardless of this value, the counter is stepped at the end of the subtask.

Default: `auto`

skip `none` or `int`

Step the subtask counter by the given number.

This is applied after the general counter update (see counter parameter).

Default: `none`

numbering `array` or `str`

The numbering patterns to use for the subtask markers depending on depth.

This is an array of strings where the n-th element is the numbering pattern for subtasks of depth n. A single string is interpreted as a singleton array.

Example

```
#let subtask = subtask.with(numbering: ("1.", "i."), numbering-cycle: true)
#subtask[
  Subtask 1.
  #subtask[Subtask i.]
  #subtask[Subtask ii.]
]
#subtask[Subtask 2.]
```

Default: `("a)", "1.", "i.")`

numbering-default `auto` or `str`

The default numbering pattern if nothing is specified for the current depth.

If set to `auto`, use the last element of numbering.

Default: `auto`

numbering-cycle `bool`

Whether to cycle through the provided numbering patterns if nothing is specified for the current depth.

If this is set, the `numbering-default` option has no effect.

Default: `false`

min-indent `length`

The minimum indent of the subtask body.

The indent of the subtask body is the maximum of this value and the width of the marker.

Default: `1.2em`

begin-at-new-page `bool`

Whether to insert a colbreak before the subtask.

Technically, this breaks the column and not the page but a single-column layout is assumed.

Default: `false`

task-text-style `function`

A function that provides styling to the description of a subtask.

Default: `emph`

..body-args `content..`

The body of the subtask. Either:

- `[content]`
- `[task text][content]`

4. THE “TODO” SYSTEM

Function: todo-box

A box for displaying TODOs.

It is used in different places to layout warning boxes. Usually, you don't use it directly but may pass it to other functions that use it, so you can customize its appearance.

Example

```
#let todo-box = todo-box.with(stroke: none)
#let todo = todo.with(todo-box: todo-box)
#let task = task.with(todo-box: todo-box)
```

Parameters

```
todo-box(
  todo-prefix: content,
  todo-style: function,
  text-style: function,
  stroke: stroke,
  inset: relative dictionary,
  outset: relative dictionary,
  radius: relative dictionary,
  ..content: arguments
) -> content
```

todo-prefix content

The text that is displayed at the beginning of the box.

Default: [TODO]

todo-style function

The styling of the todo-prefix.

Default: t => text(red)[*#t*]

text-style function

The styling of the box's contents.

Default: t => t

stroke stroke

The stroke of the box.

Default: red

inset relative or dictionary

The inset value of the box.

Default: (x: 0.2em)

outset `relative` or `dictionary`

The outset value of the box.

Default: (y: `0.3em`)

radius `relative` or `dictionary`

The radius value of the box.

Default: `0.3em`

..content `arguments`

Arbitrary content that is passed into the box.

You can only pass *positional* arguments.

Function: todo

Mark a part of your document as unfinished.

This displays an inline warning box and signals to the context.

Parameters

```
todo(  
  todo-box: function,  
  ..comments: arguments  
) -> content
```

todo-box `function`

The layout of the box.

Set this using the provided todo-box function.

Example

```
#todo(todo-box: todo-box.with(stroke: none))[Custom box.]
```

Default: todo-box

..comments `arguments`

Arbitrary content that is passed into the box.

You can only pass *positional* arguments.

5. THEOREM AND PROOF ENVIRONMENTS

Function: theorem

Theorem environment.

Example

```
#theorem(name: "Pythagoras")[$a^2 + b^2 = c^2$]
```

Parameters

```
theorem(  
  kind: content str,  
  prefix-style: function,  
  numbering: auto none content str,  
  name: content str none,  
  label: str none,  
  supplement: auto content str function none,  
  reference-prefer-name: bool,  
  emphasized: bool,  
  fill: none color gradient tiling,  
  stroke: stroke,  
  inset: length,  
  outset: length,  
  radius: length,  
  above: length,  
  below: length,  
  width: auto relative fraction,  
  content: content  
) -> content
```

kind content or str

The environment kind which is displayed as prefix.

Default: `context` `i18n.translate("Theorem")`

prefix-style function

The styling of the prefix.

Default: `strong`

numbering auto or none or content or str

The numbering of the environment.

- `auto`: Use an automatic counter.
- `none`: Don't number the theorem at all.
- Everything else is displayed as is.

Default: `auto`

name content or str or none

The name of the environment.

Default: `none`

label `str` or `none`

A label that you can reference or query.

Default: `none`

supplement `auto` or `content` or `str` or `function` or `none`

The supplement of the environment which is used in outlines and references.

When set to `auto`, it uses the same value as `kind`.

Default: `auto`

reference-prefer-name `bool`

Whether to reference the environment by name if possible.

By default, environments are referenced by number if possible.

Default: `false`

emphasized `bool`

Whether the contents of the environment is emphasized.

Default: `true`

fill `none` or `color` or `gradient` or `tiling`

The fill value of the environment box.

Default: `none`

stroke `stroke`

The stroke value of the environment box.

Default: `none`

inset `length`

The inset value of the environment box.

Default: `0em`

outset `length`

The outset value of the environment box.

Default: `0.5em`

radius `length`

The radius value of the environment box.

Default: `0em`

above `length`

The above value of the environment box.

Default: `1.3em`

below `length`

The below value of the environment box.

Default: `1.3em`

width `auto` or `relative` or `fraction`

The width value of the environment box.

Default: `100%`

content `content`

The body of the environment.

Function: corollary

Corollary environment, based on the theorem environment.

Parameters

```
corollary(  
  kind: content str,  
  prefix-style: function,  
  numbering: auto none content str,  
  name: content str none,  
  label: str none,  
  supplement: auto content str function none,  
  reference-prefer-name: bool,  
  emphasized: bool,  
  fill: none color gradient tiling,  
  stroke: stroke,  
  inset: length,  
  outset: length,  
  radius: length,  
  above: length,  
  below: length,  
  width: auto relative fraction,  
  content: content  
) -> content
```

kind `content` or `str`

The environment kind which is displayed as prefix.

Default: `context` `i18n.translate("Corollary")`

prefix-style `function`

The styling of the prefix.

Default: `strong`

numbering `auto` or `none` or `content` or `str`

The numbering of the environment.

- `auto`: Use an automatic counter.
- `none`: Don't number the theorem at all.
- Everything else is displayed as is.

Default: `auto`

name `content` or `str` or `none`

The name of the environment.

Default: `none`

label `str` or `none`

A label that you can reference or query.

Default: `none`

supplement `auto` or `content` or `str` or `function` or `none`

The supplement of the environment which is used in outlines and references.

When set to `auto`, it uses the same value as `kind`.

Default: `auto`

reference-prefer-name `bool`

Whether to reference the environment by name if possible.

By default, environments are referenced by number if possible.

Default: `false`

emphasized `bool`

Whether the contents of the environment is emphasized.

Default: `true`

fill `none` or `color` or `gradient` or `tiling`

The fill value of the environment box.

Default: `none`

stroke `stroke`

The stroke value of the environment box.

Default: `none`

inset `length`

The inset value of the environment box.

Default: `0em`

outset `length`

The outset value of the environment box.

Default: `0.5em`

radius `length`

The radius value of the environment box.

Default: `0em`

above `length`

The above value of the environment box.

Default: `1.3em`

below `length`

The below value of the environment box.

Default: `1.3em`

width `auto` or `relative` or `fraction`

The width value of the environment box.

Default: `100%`

content `content`

The body of the environment.

Function: lemma

Lemma environment, based on the theorem environment.

Parameters

```
lemma(  
  kind: content str,  
  prefix-style: function,  
  numbering: auto none content str,
```

```

name: content str none,
label: str none,
supplement: auto content str function none,
reference-prefer-name: bool,
emphasized: bool,
fill: none color gradient tiling,
stroke: stroke,
inset: length,
outset: length,
radius: length,
above: length,
below: length,
width: auto relative fraction,
content: content
) -> content

```

kind content or str

The environment kind which is displayed as prefix.

Default: context i18n.translate("Lemma")

prefix-style function

The styling of the prefix.

Default: strong

numbering auto or none or content or str

The numbering of the environment.

- **auto**: Use an automatic counter.
- **none**: Don't number the theorem at all.
- Everything else is displayed as is.

Default: auto

name content or str or none

The name of the environment.

Default: none

label str or none

A label that you can reference or query.

Default: none

supplement auto or content or str or function or none

The supplement of the environment which is used in outlines and references.

When set to **auto**, it uses the same value as kind.

Default: auto

reference-prefer-name `bool`

Whether to reference the environment by name if possible.

By default, environments are referenced by number if possible.

Default: `false`

emphasized `bool`

Whether the contents of the environment is emphasized.

Default: `true`

fill `none` or `color` or `gradient` or `tiling`

The fill value of the environment box.

Default: `none`

stroke `stroke`

The stroke value of the environment box.

Default: `none`

inset `length`

The inset value of the environment box.

Default: `0em`

outset `length`

The outset value of the environment box.

Default: `0.5em`

radius `length`

The radius value of the environment box.

Default: `0em`

above `length`

The above value of the environment box.

Default: `1.3em`

below `length`

The below value of the environment box.

Default: `1.3em`

width `auto` or `relative` or `fraction`

The width value of the environment box.

Default: `100%`

content `content`

The body of the environment.

Function: definition

Definition environment, based on the theorem environment.

Parameters

```
definition(  
  kind: content str,  
  prefix-style: function,  
  numbering: auto none content str,  
  name: content str none,  
  label: str none,  
  supplement: auto content str function none,  
  reference-prefer-name: bool,  
  emphasized: bool,  
  fill: none color gradient tiling,  
  stroke: stroke,  
  inset: length,  
  outset: length,  
  radius: length,  
  above: length,  
  below: length,  
  width: auto relative fraction,  
  content: content  
) -> content
```

kind `content` or `str`

The environment kind which is displayed as prefix.

Default: `context` `i18n.translate("Definition")`

prefix-style `function`

The styling of the prefix.

Default: `strong`

numbering `auto` or `none` or `content` or `str`

The numbering of the environment.

- `auto`: Use an automatic counter.
- `none`: Don't number the theorem at all.
- Everything else is displayed as is.

Default: `auto`

name `content` or `str` or `none`

The name of the environment.

Default: `none`

label `str` or `none`

A label that you can reference or query.

Default: `none`

supplement `auto` or `content` or `str` or `function` or `none`

The supplement of the environment which is used in outlines and references.

When set to `auto`, it uses the same value as `kind`.

Default: `auto`

reference-prefer-name `bool`

Whether to reference the environment by name if possible.

By default, environments are referenced by number if possible.

Default: `false`

emphasized `bool`

Whether the contents of the environment is emphasized.

Default: `false`

fill `none` or `color` or `gradient` or `tiling`

The fill value of the environment box.

Default: `none`

stroke `stroke`

The stroke value of the environment box.

Default: `none`

inset `length`

The inset value of the environment box.

Default: `0em`

outset `length`

The outset value of the environment box.

Default: `0.5em`

radius `length`

The radius value of the environment box.

Default: `0em`

above `length`

The above value of the environment box.

Default: `1.3em`

below `length`

The below value of the environment box.

Default: `1.3em`

width `auto` or `relative` or `fraction`

The width value of the environment box.

Default: `100%`

content `content`

The body of the environment.

Function: example

Example environment, based on the theorem environment.

Parameters

```
example(  
  kind: content str,  
  prefix-style: function,  
  numbering: auto none content str,  
  name: content str none,  
  label: str none,  
  supplement: auto content str function none,  
  reference-prefer-name: bool,  
  emphasized: bool,  
  fill: none color gradient tiling,  
  stroke: stroke,  
  inset: length,  
  outset: length,  
  radius: length,  
  above: length,  
  below: length,
```

```
width: auto relative fraction ,
content: content
) -> content
```

kind content or str

The environment kind which is displayed as prefix.

Default: context i18n.translate("Example")

prefix-style function

The styling of the prefix.

Default: strong

numbering auto or none or content or str

The numbering of the environment.

- **auto**: Use an automatic counter.
- **none**: Don't number the theorem at all.
- Everything else is displayed as is.

Default: auto

name content or str or none

The name of the environment.

Default: none

label str or none

A label that you can reference or query.

Default: none

supplement auto or content or str or function or none

The supplement of the environment which is used in outlines and references.

When set to **auto**, it uses the same value as kind.

Default: auto

reference-prefer-name bool

Whether to reference the environment by name if possible.

By default, environments are referenced by number if possible.

Default: false

emphasized bool

Whether the contents of the environment is emphasized.

Default: `false`

fill `none` or `color` or `gradient` or `tiling`

The fill value of the environment box.

Default: `none`

stroke `stroke`

The stroke value of the environment box.

Default: `none`

inset `length`

The inset value of the environment box.

Default: `0em`

outset `length`

The outset value of the environment box.

Default: `0.5em`

radius `length`

The radius value of the environment box.

Default: `0em`

above `length`

The above value of the environment box.

Default: `1.3em`

below `length`

The below value of the environment box.

Default: `1.3em`

width `auto` or `relative` or `fraction`

The width value of the environment box.

Default: `100%`

content `content`

The body of the environment.

Function: proof

Proof environment.

Example

```
#proof[Let  $a=1$ , then is  $a+1 = 2$  immediate.]
```

Parameters

```
proof(  
  prefix: content str,  
  qed: content,  
  prefix-style: function,  
  fill: none color gradient tiling,  
  stroke: stroke,  
  inset: length,  
  outset: length,  
  radius: length,  
  above: length,  
  below: length,  
  width: auto relative fraction,  
  body: content  
) -> content
```

prefix content or str

The prefix that displayed at the beginning of the proof.

Default: `context i18n.translate("Proof")`

qed content

The symbol that marks the end of the proof.

Default: `\square`

prefix-style function

The styling of the prefix.

Default: `emph`

fill none or color or gradient or tiling

The fill value of the proof box.

Default: `none`

stroke stroke

The stroke value of the proof box.

Default: `none`

inset length

The inset value of the proof box.

Default: 0em

outset length

The outset value of the proof box.

Default: 0.5em

radius length

The radius value of the proof box.

Default: 0em

above length

The above value of the proof box.

Default: 1em

below length

The below value of the proof box.

Default: 1em

width auto or relative or fraction

The width value of the proof box.

Default: 100%

body content

The body of the proof.

6. WIDGETS

Function: score-box

The “score box” widget.

This function creates an empty table for each task where the scores can be filled in. By default, it reads the number of tasks from the task counter, but you can set the task values manually.

Usually you just want to use the score box that is automatically available in the assignment layout. It uses this implementation internally but all configuration is done in the assignment function.

Parameters

```
score-box(  
  tasks: array auto,  
  show-points: bool,  
  bonus-show-star: bool,  
  bonus-counts-for-sum: bool,  
  fill-space: bool,  
  cell-width: length,  
  inset: length  
) -> content
```

tasks array or auto

Set the score box task list manually.

If **auto** is set, figure out the tasks from the context.

Default: **auto**

show-points bool

Whether to show the points per task.

Default: **true**

bonus-show-star bool

Whether to mark bonus tasks in the score box with a star.

Default: **true**

bonus-counts-for-sum bool

Whether the points of bonus tasks count into the sum.

Default: **false**

fill-space bool

Whether to fill all available horizontal space.

Default: **false**

cell-width length

The inset value of the score box.

Default: `4.5em`

inset `length`

The cell-width value of the score box.

Default: `0.7em`

Function: info-box

The “info box” widget.

This function creates a box with information about the authors of the document. You need to provide the names of the authors and optionally student IDs and/or email addresses.

Usually you just want to use the info box that is automatically available in the assignment layout. It uses this implementation internally but all configuration is done in the assignment function.

Parameters

```
info-box(  
  names: array ,  
  student-ids: array none ,  
  emails: array none ,  
  inset: length ,  
  gutter: length  
) -> content
```

names `array`

The authors names.

student-ids `array` or `none`

The IDs of the authors.

Default: `none`

emails `array` or `none`

The emails of the authors.

Default: `none`

inset `length`

The inset value of the info box.

Default: `0.7em`

gutter `length`

The gutter value of the info box.

Default: 1em

7. UTILITIES

Function: `appendix`

Setup an appendix layout.

Use this function to turn the rest of the document into an appendix.

Example

```
#show: appendix
```

= **Blablabla**

Now everything is displayed as appendix.

Parameters

```
appendix(  
  title: content str none ,  
  title-size: length ,  
  supplement: content str function none ,  
  numbering: str none ,  
  body: content  
) -> content
```

title content or str or none

The title of the whole appendix.

Default: `context i18n.translate("Appendix")`

title-size length

The text size of the appendix title.

Default: `1.6em`

supplement content or str or function or none

The supplement of the appendix sections.

Default: `context i18n.translate("Appendix")`

numbering str or none

The numbering pattern for the appendix sections.

Default: `"A.1. "`

body content

The appendix body itself.