

sheetstorm

A template for assignment sheets.

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

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1. EXAMPLE

```
#import "@preview/sheetstorm:0.3.3": *

#show: assignment.with(
  course: smallcaps[A very interesting course 101],
  title: "Assignment 42",
  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(100)
]

#task(name: "Subtasks", label: "task-subtasks", points: (1, 2))[
  + _What is the color of a banana?_ #subtask-label("banana", display: "a")

  A banana is *yellow*.

  + _Solve the following equations for  $x$ ._
  +  $x^2 = 4 \implies x = \text{plus.minus } 2$ 
  +  $x = \int_0^1 x^2 \implies x = [1/3 x^3]_0^1 = 1/3$ 
  +  $x = \text{"color of banana"} \implies x = \text{"yellow"}$ , 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, lorem(300))
```

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 none,  
  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` `il8n.word("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 `none`

Set the score box task list manually.

Default: `none`

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-reset: none int function,  
  counter-show: bool,  
  todo-show: bool,  
  todo-box: function,  
  subtask-numbering: function str none,  
  points: int array,  
  points-show: bool,  
  points-prefix: content str,  
  bonus: bool,  
  bonus-show-star: bool,  
  hidden: bool,  
  space-above: auto length,  
  space-below: auto length,  
  content: 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.word("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-reset **none** or **int** or **function**

The value of the task counter.

If set to none it just steps the counter by one.

Default: **none**

counter-show **bool**

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

Default: **true**

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

subtask-numbering **function** or **str** or **none**

Set the numbering for subtasks.

If you give a numbering, it just sets the enum numbering accordingly. If you set it to none, it disables the custom numbering completely.

The library provides a handy custom-enum-numbering function that is expected to be used when setting the numbering to a non-trivial value. The required enum.full option is set automatically.

Default: `custom-enum-numbering("a", "1.", "i.")`

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` `il8n.word("Points")`

bonus `bool`

Whether the task is a bonus task.

Default: `false`

bonus-show-star `bool`

Whether bonus tasks are marked with a star in the title.

Default: `true`

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`

content `content`

The body of the task.

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,  
  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 theorem kind which is displayed as prefix.

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

numbering auto or none or content or str

The numbering of the theorem.

- `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 theorem.

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 theorem 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 theorem by name if possible.

By default, theorems are referenced by number if possible.

Default: `false`

emphasized `bool`

Whether the contents of the theorem is emphasized.

Default: `true`

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

The fill value of the theorem box.

Default: `none`

stroke `stroke`

The stroke value of the theorem box.

Default: `none`

inset `length`

The inset value of the theorem box.

Default: `0em`

outset `length`

The outset value of the theorem box.

Default: `0.5em`

radius `length`

The radius value of the theorem box.

Default: `0em`

above `length`

The above value of the theorem box.

Default: `1.3em`

below `length`

The below value of the theorem box.

Default: `1.3em`

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

The width value of the theorem box.

Default: `100%`

content `content`

The body of the theorem.

Function: corollary

Corollary environment, based on the theorem environment.

Parameters

```
corollary(  
  kind: content str,  
  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 theorem kind which is displayed as prefix.

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

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

The numbering of the theorem.

- `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 theorem.

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 theorem 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 theorem by name if possible.

By default, theorems are referenced by number if possible.

Default: `false`

emphasized `bool`

Whether the contents of the theorem is emphasized.

Default: `true`

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

The fill value of the theorem box.

Default: `none`

stroke `stroke`

The stroke value of the theorem box.

Default: `none`

inset `length`

The inset value of the theorem box.

Default: `0em`

outset `length`

The outset value of the theorem box.

Default: `0.5em`

radius `length`

The radius value of the theorem box.

Default: `0em`

above `length`

The above value of the theorem box.

Default: `1.3em`

below `length`

The below value of the theorem box.

Default: `1.3em`

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

The width value of the theorem box.

Default: `100%`

content `content`

The body of the theorem.

Function: lemma

Lemma environment, based on the theorem environment.

Parameters

```
lemma(  
  kind: content str,  
  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 theorem kind which is displayed as prefix.

Default: `context` `il8n.word("Lemma")`

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

The numbering of the theorem.

- `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 theorem.

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 theorem 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 theorem by name if possible.

By default, theorems are referenced by number if possible.

Default: `false`

emphasized `bool`

Whether the contents of the theorem is emphasized.

Default: `true`

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

The fill value of the theorem box.

Default: `none`

stroke `stroke`

The stroke value of the theorem box.

Default: `none`

inset `length`

The inset value of the theorem box.

Default: `0em`

outset `length`

The outset value of the theorem box.

Default: `0.5em`

radius `length`

The radius value of the theorem box.

Default: `0em`

above `length`

The above value of the theorem box.

Default: `1.3em`

below `length`

The below value of the theorem box.

Default: `1.3em`

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

The width value of the theorem box.

Default: `100%`

content `content`

The body of the theorem.

Function: proof

Proof environment.

Example

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

Parameters

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

qed content

The symbol that marks the end of the proof.

Default: `$square$`

prefix content or str

The prefix that displayed at the beginning of the proof.

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

prefix-style function

The styling of the prefix.

Default: `p => [_#p._]`

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%

content 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 none ,  
  show-points: bool ,  
  bonus-show-star: bool ,  
  bonus-counts-for-sum: bool ,  
  fill-space: bool ,  
  cell-width: length ,  
  inset: length  
) -> content
```

tasks array or none

Set the score box task list manually.

Default: none

show-points bool

Whether to show the points per task.

Default: true

bonus-show-star bool

Whether the points of bonus tasks count into the sum.

Default: true

bonus-counts-for-sum bool

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

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
```

= Blabla

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.word("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.word("Appendix")

numbering str or none

The numbering pattern for the appendix sections.

Default: "A.1. "

body content

The appendix body itself.

Function: subtask-label

Attach a label to a subtask.

Example

```
#task[
+ This is the first subtask. #subtask-label("subtask-a", display: "a")
+ This is the second subtask, see @subtask-a.
]
```

The correct display value does not get inherited from the enum context. You must set it manually.

Parameters

```
subtask-label(
  lbl: str,
  display: content str auto
) -> content
```

lbl `str`

The label identifier.

display `content` or `str` or `auto`

How the subtask is displayed in references.

If set to `auto`, it is set to the same value as `lbl`.

Default: `auto`

Function: custom-enum-numbering

A helper to set a custom enum numbering based on the list depth

You must set `enum(full: true)` for it to work.

Example

```
#set enum(
  full: true,
  numbering: custom-enum-numbering("a)", "1.")
)
```

The numbering for depth levels that are not specified is decided as follows:

- If `cycle` is `true` then the given patterns get applied cyclically.
- Otherwise, the default argument is applied for all unspecified levels.
- If `default` is set to `auto`, the last specified pattern is chosen.

Parameters

```
custom-enum-numbering(
  cycle: bool,
  default: auto str,
  ..patterns: arguments
) -> numbering
```

cycle `bool`

Whether to cycle through the patterns for unspecified depth levels.

Default: `false`

default `auto` or `str`

The default argument for unspecified depth levels.

If set to `auto`, the last specified pattern is chosen.

Default: **auto**

..patterns arguments

The string patterns for the numbering in order of their according depth level.