subpar

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Create sub figures easily.

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https://github.com/tingerrr/subpar

Subpar provides easy to use sub figures with sensible default numbering and an easy-to-use no-setup API.

Table of contents

T.	Ma	ni	fest
1.	IVI		LESL

TT		•	1
	(-1	116	10

II.1. Labeling 3
II.2. Grid Layout
II.3. Numbering 3
II.4. Supplements 4

III. Reference

IV. Index

Part I.

Manifest

SUBPAR aims to be:

- simple to use
 - importing a function and using it should be all that is needed
 - setup required to make the package work should be avoided
- unsurprising
 - parameters should have sensible names and behave as one would expect
 - deviations from this must be documented and easily accesible to Typst novices
- interoperable
 - ► Subpar should be easy to use with other packages by default or provide sufficient configuration to allow this in other ways
- minimal
 - it should only provide features which are specifically used for sub figures

If you think its behvior is surprising, you believe you found a bug or think its defaults or parameters are not sufficient for your use case, please open an issue at GitHub:tingerrr/subpar. Contributions are also welcome!

Part II.

Guide

II.1. Labeling

Currently to refer to a super figure the label must be explicitly passed to subpar using label: <...>.

II.2. Grid Layout

The default subpar function provides only the style rules to make sub figures correctly behave with respect to numbering. To arrange them in a specific layout, you can use any other Typst function, a common choice would be grid.

```
#import "@preview/subpar:0.1.0": subpar

#subpar(
    grid(
        [#figure(image("image1.png"), caption: [An image]) <a>],
        [#figure(image("image2.png"), caption: [Another image]) <b>],
        figure(image("image2.png"), caption: [A third unlabeled image]),
        columns: (1fr,) * 3,
    )
    caption: [A figure composed of three sub figures.],
    label: <fig>,
)
We can refer to @fig, @fig1 and @fig2.
```

Because this quickly gets cumbersome, subpar provides a default grid layout wrapper called subpar-grid. It provides good defaults like gutter: 1em and hides options which are undesireable for sub figure layouts like fill and stroke. You can pass labeled sub figures as arrays of the figure and its label.

```
#import "@preview/subpar:0.1.0": subpar-grid

#subpar-grid(
   figure(image("image1.png"), caption: [An image]), <a>,
    figure(image("image2.png"), caption: [Another image]), <b>,
   figure(image("image2.png"), caption: [A third unlabeled image]),
   columns: (1fr,) * 3,
   caption: [A figure composed of three sub figures.],
   label: <fig>,
)
We can refer to @fig, @fig1 and @fig2.
```

II.3. Numbering

subpar and subpar-grid take three different numberings:
numbering
The numbering used for the sub figures when displayed or referenced.

2.3 Numbering

numbering-sub The numbering used for the sub figures when displayed.numbering-sub-ref The numbering used for the sub figures when referenced.

Similarly to a normal figure, these can be functions or string patterns. The numbering-sub and numbering-sub-ref patterns will receive both the super figure an sub figure number.

II.4. Supplements

Currently, supplements for super figures propagate down to super figures, this ensures that the supplement in a reference will not confuse a reader, but it will cause reference issues in multilingual documents (see subpar#4).

Lorem ipsum dolor sit amet, consectetur adip-Hello Typst! iscing elit, sed do. (a) Typst Code (b) Lorem

Figure 1: A figure containing two super figures.

When referring the super figure we see "Figure 1", when referring to the sub figure of a different kind, we still see the same supplement "Figure 1a".

To turn this behavior off, set propagate-supplement to false, this will also resolve the issues from subpar#4.

Lorem ipsum dolor sit amet, consectetur adip-Hello Typst! iscing elit, sed do. (a) Typst Code (b) Lorem

Figure 2: A figure containing two super figures.

Now when refering the the super figure we see still see "Figure 2", but when refering to the sub figure of a different kind, we the inferred supplement "Listing 2a".

Part III.

Reference

```
#subpar()
                               #subpar-grid()
#subpar(
  <kind>: "image",
  ⟨numbering⟩: "1",
  \(numbering-sub\): "(a)",
  (numbering-sub-ref): "1a",
  ⟨supplement⟩: auto,
  ⟨propagate-supplement⟩: true,
  ⟨caption⟩: none,
  ⟨placement⟩: none,
  ⟨gap⟩: 0.65em,
  ⟨outlined⟩: true,
  ⟨outlined-sub⟩: false,
  <la>(label): none,
  ⟨show-sub⟩: auto,
  ⟨show-sub-caption⟩: auto,
  ⟨body⟩
\rightarrow content
  Creates a figure which may contain other figures, a superfigure. For the meaning of para-
  meters take a look at the regular figure documentation.
 <kind>: "image"
                                                                          str function
   The image kind which should be used, this is mainly relevant for introspection and de-
   faults to image. This cannot be automatically resovled like for normal figures and must
   be set.
 ⟨numbering⟩: "1"
                                                                          str function
   This is the numbering used for this super figure.
 \numbering-sub\: "(a)"
                                                                          str function
   This is the numbering used for the sub figures.
 \numbering-sub-ref>: "1a"
                                                                          str function
   This is the numbering used for references to the sub figures. If this is a function, it re-
   ceives both the super and sub figure numbering respectively.
                                                        content function auto none
 ⟨supplement⟩: auto
```

The supplement used for this super figure *and* the sub figures when referenced.

```
⟨propagate-supplement⟩: true
                                                                                  bool
   Whether the super figure's supplement should propagate down to its sub figures.
 ⟨caption⟩: none
                                                                               content
   The caption of this super figure.
 ⟨placement⟩: none
                                                                alignment auto none
   The float placement of this super figure.
 ⟨gap⟩: 0.65em
                                                                                length
   The gap between this super figure's caption and body.
 ⟨outlined⟩: true
                                                                                   bool
   Whether this super figure should appear in an outline of figures.
 ⟨outlined-sub⟩: false
                                                                                  bool
   Whether the sub figures should appear in an outline of figures.
 ⟨label⟩: none
                                                                           label none
   The label to attach to this super figure.
                                                                       function auto
 ⟨show-sub⟩: auto
   A show rule override for sub figures. Recevies the sub figure.
 ⟨show-sub-caption⟩: auto
                                                                       function auto
   A show rule override for sub figure's captions. Receives the realized numbering and
   caption element.
#subpar-grid(
  ⟨columns⟩: auto,
  <rows>: auto,
  ⟨gutter⟩: 1em,
  ⟨column-gutter⟩: auto,
  ⟨row-gutter⟩: auto,
```

```
⟨inset⟩: "(:)",
  ⟨kind⟩: "image",
  (numbering): "1",
  ⟨numbering-sub⟩: "(a)",
  (numbering-sub-ref): "1a",
  ⟨supplement⟩: auto,
  ⟨propagate-supplement⟩: true,
  ⟨caption⟩: none,
  ⟨placement⟩: none,
  ⟨gap⟩: 0.65em,
  ⟨outlined⟩: true,
  ⟨outlined-sub⟩: false,
  <la>(label): none,
  ⟨show-sub⟩: auto,
  ⟨show-sub-caption⟩: auto,
  ..⟨args⟩
\rightarrow content
  Provides a convenient wrapper around #subpar() which puts sub figures in a grid.
                                            auto int relative fraction array
 ⟨columns⟩: auto
   Corresponds to the grid's columns parameter.
 ⟨rows⟩: auto
                                            auto int relative fraction array
   Corresponds to the grid's rows parameter.
                                            auto int relative fraction array
 ⟨gutter⟩: 1em
   Corresponds to the grid's gutter parameter.
 ⟨column-gutter⟩: auto
                                            auto int relative fraction array
   Corresponds to the grid's column-gutter parameter.
 ⟨row-gutter⟩: auto
                                            auto int relative fraction array
   Corresponds to the grid's row-gutter parameter.
 ⟨align⟩: bottom
                                                 auto array alignment function
   Corresponds to the grid's align parameter.
 ⟨inset⟩: "(:)"
                                            relative array dictionary function
```

⟨align⟩: bottom,

```
Corresponds to the grid's inset parameter.
⟨kind⟩: "image"
                                                                     str function
 Corressponds to the super figure's kind.
⟨numbering⟩: "1"
                                                                     str function
 Corressponds to the super figure's numbering.
(numbering-sub): "(a)"
                                                                     str function
 Corressponds to the super figure's numbering-sub.
\(numbering-sub-ref\): "1a"
                                                                     str function
 Corressponds to the super figure's numbering-sub-ref.
⟨supplement⟩: auto
                                                    content function auto none
 Corressponds to the super figure's supplement.
⟨propagate-supplement⟩: true
                                                                               bool
 Corressponds to the super figure's propagate-supplement.
⟨caption⟩: none
                                                                            content
 Corressponds to the super figure's caption.
⟨placement⟩: none
                                                             alignment auto none
 Corresponds to the super figure's placement.
⟨gap⟩: 0.65em
                                                                             length
 Corressponds to the super figure's gap.
⟨outlined⟩: true
                                                                               bool
 Corressponds to the super figure's outlined.
⟨outlined-sub⟩: false
                                                                               bool
```

Corressponds to the super figure's outlined-sub.

label none

Corressponds to the super figure's label.

Argument

 $\langle label \rangle$: none

⟨show-sub⟩: auto

function

Corressponds to the super figure's show-sub.

Argument

 $\langle show-sub-caption \rangle$: auto

function

Corressponds to the super figure's show-sub-caption.

#sub-figure-counter

The counter used for sub figures.

Part IV.

Index

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•		_	
		С	۳
•			
	٧		٨,

#subpar	5
#subpar-grid	6