subpar

v0.1.0

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MIT

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.

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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 to allow for numbering them.

II.4. Supplements

Hello Typst!

(a) Typst Code

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 adipiscing elit, sed do.

(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

III.1. subpar

#subpar()

```
#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
```

#subpar-grid()

This is the numbering used for *references* to the sub figures. If this is a function, it receives both the super and sub figure numbering respectively.

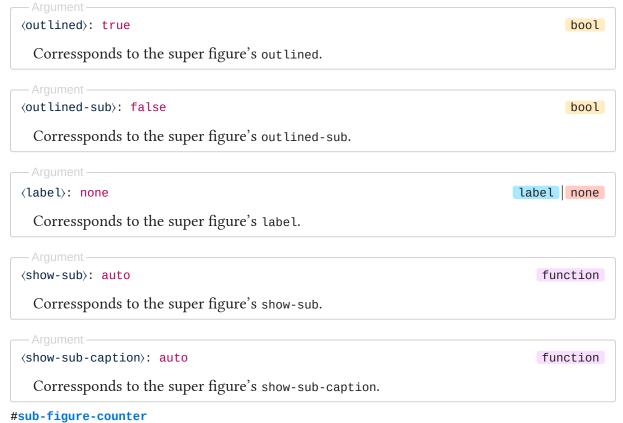
content function auto none ⟨supplement⟩: auto The supplement used for this super figure and the sub figures when referenced. ⟨propagate-supplement⟩: true bool Whether the super figure's supplement should propagate down to its sub figures. ⟨caption⟩: none content The caption of this super figure. ⟨placement⟩: 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,
  <align>: bottom,
  ⟨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,
  <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.
 ⟨gutter⟩: 1em
                                             auto int relative fraction array
   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.
```

3.1 subpar

```
auto array alignment function
⟨align⟩: bottom
 Corresponds to the grid's align parameter.
⟨inset⟩: "(:)"
                                           relative array dictionary function
 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.
                                                   content | function | auto | none
⟨supplement⟩: auto
 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.
                                                            alignment auto none
⟨placement⟩: none
 Corresponds to the super figure's placement.
⟨gap⟩: 0.65em
                                                                            length
 Corressponds to the super figure's gap.
```

3.1 subpar



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The counter used for sub figures.

III.2. util

Part IV.

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