Showybox's Manual

Updated for version 1.1.0

Colorful and customizable boxes for Typst 🚀

Contents

1. Introduction

Showybox is a Typst package for creating colorful and customizable boxes, similar as `tcolorbox` for LaTeX users.

Currently, Showybox is still on developement, and all the code can be found at its GitHub repository here. New features are welcome. So, if you have an idea that would improve this package, go on and send us the code as Pull Request.

2. Usage

To use this library through the Typst package manager (for Typst 0.6.0 or greater), write `#import "@preview/showybox:1.1.0":` `showybox` at the beginning of your Typst file.

Once imported, you can create an empty showybox by using the function `showybox()` and giving a default body content inside the parenthesis or outside them using the squared brackets `[]`.

By default a showybox with these properties will be created:

- No title
- No shadow
- Not breakable
- Black borders
- White background
- `5pt` of border radius
- `1pt` of border thickness

```
#import "@preview/showybox:1.1.0": showybox

#showybox()[This is a simple showybox with the
properties said before :)]
```

This is a simple showybox with the properties said before :)

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3. Parameters

In version 1.1.0 all the parameters that the `showybox()` function can receive are shown below:

```
showybox(
  title: string content
  footer: string content
  frame: dictionary
  title-style: dictionary
  body-style: dictionary
  footer-style: dictionary
  sep: dictionary
  shadow: dictionary
  width: relative length
  align: alignement 2d alignement
  breakable: boolean
  spacing: relative length
  above: relative length
  below: relative length
  .. content
) → content
```

The usage and posible values of all the parameters are listed below.

3.1. Title

When it's not empty, corresponds to a `string` or a `content` used as the title of the showybox.

Default is `""` (empty `string`).

Hi there! I'm Mr. Title
And I'm Mrs. Body

And I'm Mrs. Body

```
#showybox(
  title: "Hi there! I'm Mr. Title"
)[And I'm Mrs. Body]

#showybox(/*Untitled*/)[And    I'm
Mrs. Body]
```

3.2. Footer

When it's not empy, corresponds to a `string` or a `content` used as the footer of the showybox.

Default is `""` (empty `string`).

```
#showybox(
  title: "Hi there! I'm Mr. Title",
  footer: "And finally I'm Mr. Footer"
)[And I'm Mrs. Body]
```

> **Hi there! I'm Mr. Title**
>
> And I'm Mrs. Body
>
> And finally I'm Mr. Footer

3.3. Frame

This parameter contains all options that are useful for setting a showybox's frame properties. The frame contains the title,the body and the footer of the showybox. It even includes the showybox borders! Frame's dictionary options are listed below:

> **This is *above* and *in* the frame**
>
> And this is *above* and *in* the frame. Even the thin borders surrounding this text *are* the frame

title-color `color`

The color used as background where the title goes. It can be any existing color in Typst.

Default is `black`.

```
#showybox(
  title: "Roses are red, violets are... also red!",
  frame: (title-color: red.darken(20%))
)[As you can see, this showybox has `title-color: red.darken(20%)`, which
means the title section will be colored with (slightly dark) red]
```

> **Roses are red, violets are... also red!**
>
> As you can see, this showybox has `title-color: red.darken(20%)`, which means the title section will be colored with (slightly dark) red

body-color `color`

The color that is used as background where the showybox's body goes. And, similarly with `title-color`, it can be any existing color in Typst.

Default is `white`.

```
#showybox(
  title: "Roses are red...",
  frame: (
    title-color: red.darken(20%),
    body-color: blue.lighten(70%)
  )
)[violets are blue. And everything here goes with a smoother light blue.]
```

> **Roses are red...**
> violets are blue. And everything here goes with a smoother light blue.

footer-color `color`

The color that is used as background where the footer goes. It can be any existing color in Typst.

Default is `luma(220)`.

```
#showybox(
  title: "Roses are red...",
  footer: "And the Sun shines happily, like in the afternoon :)",
  frame: (
    title-color: red.darken(20%),
    body-color: blue.lighten(70%),
    footer-color: yellow.lighten(70%)
  )
)[violets are blue.]
```

> **Roses are red...**
> violets are blue.
> And the Sun shines happily, like in the afternoon :)

border-color `color`

It's the color used for the frame's borders. It's independent of `title-color`, `body-color` and `footer-color`, so maybe you would want to use similar colors with them.

Default is `black`.

```
#showybox(
  title: "Look at those borders!",
```

```
  frame: (
    border-color: blue,
    title-color: blue
  )
)[This beautiful text is surrounded by a unique blue border]
```

Look at those borders!

This beautiful text is surrounded by a unique blue border

radius `relative length`

Indicates how much round are the borders of the frame. It sets *all* the border radii, so you can set either all four border's radius or none of them.

Default is `5pt`.

```
#showybox(
  frame: (radius: 0pt)
)[Come on boy, change your squared mind!]
```

Come on boy, change your squared mind!

thickness `length` `dictionary`

Indicates the thickness of the frame borders as a `length` or a `dictionary`. If it's a dictionary, it can specify `top`, `bottom`, `left`, `right`, `x`, `y` or `rest` thickness.

It excludes the thickness of any separator located inside the box (their thickness is set in `sep` property).

Default is `1pt`.

```
#showybox(
  title: "Look papa, like the pizza borders!",
  frame: (
    thickness: (left: 15pt, rest: 0pt),
    radius: 0pt,
    title-color: luma(100)
  ),
)[There's too much space not used in the left border!]
```

Look papa, like the pizza borders!

There's too much space not used in the left border!

inset `relative length` `dictionary`

How much to pad the showybox's content. It can be a `relative length` or a `dictionary`. If it's a dictionary, it can specify `top`, `bottom`, `left`, `right`, `x`, `y` or `rest` insets.

If `title-inset`, `body-inset` or `footer-inset` is given, this property is ignored while setting the inset of the title, the body or the footer.

Default is (`x:` `1em`, `y:` `0.65em`).

```
#showybox(
  title: "Example of 'awful' inset",
  frame: (
    inset: (top: 2.5em, bottom: 0em, left: 5em)
  )
)[This showybox has no bottom inset, so it'll look bad :(]
```


title-inset `relative length` `dictionary`

How much to pad the showybox's title content. It can be a `relative length` or a `dictionary`. If it's a dictionary, it can specify `top`, `bottom`, `left`, `right`, `x`, `y` or `rest` insets.

By default is not set, so it will be used `inset` property instead.

```
#showybox(
  title: "Example of 'awful' inset (just in the body ;) )",
  frame: (
    inset: (top: 2.5em, bottom: 0em, left: 5em),
    title-inset: (x: 3em, y:2em)
  )
)[This showybox has no bottom inset, so it'll look bad :(]
```


body-inset `relative length` `dictionary`

How much to pad the showybox's body content. It can be a `relative length` or a `dictionary`. If it's a dictionary, it can specify top, bottom, left, right, x, y or rest insets.

By default is not set, so it will be used `inset` property instead.

```
#showybox(
  title: "Example of 'awful' inset (just in the title ;) )",
  frame: (
    inset: (top: 2.5em, bottom: 0em, left: 5em),
    body-inset: (x: 2em, y:1em)
  )
)[This showybox's title has no bottom inset, so it'll look bad :(]
```

Example of 'awful' inset (just in the title ;))

This showybox's title has no bottom inset, so it'll look bad :(

footer-inset `relative length` `dictionary`

How much to pad the showybox's footer content. It can be a `relative length` or a `dictionary`. If it's a dictionary, it can specify top, bottom, left, right, x, y or rest insets.

By default is not set, so it will be used `inset` property instead.

```
#showybox(
  footer: "Example of 'awful' inset (just in the body ;) )",
  frame: (
    inset: (top: 2.5em, bottom: 0em, left: 5em),
    footer-inset: (x: 2em, y:1em)
  )
)[This showybox has no bottom inset, so it'll look bad :(]
```

This showybox has no bottom inset, so it'll look bad :(

Example of 'awful' inset (just in the body ;))

dash `string`

Corresponds to the frame border's style. It can be any kind of style used for `line`(). For example, it can be `"solid"`, `"dotted"`, `"densely-dotted"`, `"loosely-dotted"`, `"dashed"`, `"densely-dashed"`, `"loosely-dashed"`, `"dash-dotted"`, `"densely-dash-dotted"` or `"loosely-dash-dotted"`

Default is `"solid"`.

```
#showybox(
  frame: (dash: "dashed")
)[As you can see, this little showybox has its borders #raw(lang: "typc",
"\"dashed\""), and therefore looks pretty cool ;)]
```

As you can see, this little showybox has its borders `"dashed"`, and therefore looks pretty cool ;)

3.4. Title styles

This parameter contains all options that are useful for setting showybox's title properties. Despite you can set some of this properties while setting `title` parameter, it becomes a useful option while making several showyboxes with similar styles.

color `color`

Title's text color. It can be any possible color in Typst.

Default is `white`.

```
#showybox(
  title-style: (
    color: red
  ),
  frame: (
    title-color: white
  ),
  title: "Colored title!"
)[with a regular body :(]
```

Colored title!

with a regular body :(

weigth `integer` `string`

Title's font weight. It could be an integer between `100` and `900`, or a predefined weight name (`"thin"`, `"extralight"`, `"light"`, `"regular"`, `"medium"`, `"semibold"`, `"bold"`, `"extrabold"` and `"black"`).

Default is `"bold"`.

```
#showybox(
  title-style: (
    color: black,
    weight: "thin"
  ),
  frame: (
```

```
      title-color: white
    ),
    title: "Thin title!"
)[This showybox's title is so thin that I can't even read it!]
```

> **Thin title!**
>
> This showybox's title is so thin that I can't even read it!

align `alignement` `2d alignement`

How to align title's content. It can be an unidimensional alignement or a bidimensional alignement.

Default is `left`.

```
#showybox(
  title-style: (
    align: center + horizon
  ),
  title: block(height: 1cm)[The _center_ of your problems is...]
)[...your #emph("horizon")-tal perspective of the world]
```

> **The *center* of your problems is...**
>
> ...your *horizon*-tal perspective of the world

boxed `boolean`

If `true`, the title is shown as a separated box, indpendent of the body and footer. It conserves border color and thickness from `frame` properties.

Default is `false`.

```
#showybox(
  width: 70%,
  align: center,
  title: "Green day",
  title-style: (
    boxed: true
  ),
  frame: (
    title-color: green.darken(40%),
    border-color: green.darken(10%),
    thickness: 3pt
  )
)[Once a month, every family celebrates an ocassion that's called "Green
```

```
day". That day, everyone paints themselves with green paint and run across
the city hugging trees :)]
```

> **Green day**
>
> Once a month, every family celebrates an ocassion
> that's called "Green day". That day, everyone paints
> themselves with green paint and run across the city hug-
> ging trees :)

boxed-align `alignement`

If the title is boxed, this property indicates the alignement of it. It can be `left`, `center`, `right`, `start`, or `end`.

Default is `left`.

```
#showybox(
  width: 70%,
  align: center,
  title: "Purple day",
  title-style: (
    boxed: true,
    boxed-align: center
  ),
  frame: (
    title-color: purple.darken(40%),
    border-color: purple.darken(10%),
    thickness: 3pt
  )
)[Once a month, every family celebrates an ocassion that's called "Green
day". That day, everyone paints themselves with purple paint and run across
the city hugging blackberry bushes :)]
```

> **Purple day**
>
> Once a month, every family celebrates an ocassion
> that's called "Green day". That day, everyone paints
> themselves with purple paint and run across the city
> hugging blackberry bushes :)

sep-thickness `length`

How much is the thickness of the separator line that is between the title and the body.

Default is `1pt`.

```
#showybox(
  title-style: (
    color: black,
    sep-thickness: 0pt
  ),
  frame: (
    thickness: (left: 2pt),
    radius: 0pt,
    border-color: blue.darken(50%),
    title-color: blue.lighten(85%),
    body-color: blue.lighten(85%),
  ),
  title: [*_You don't have to read this showybox's content_*],
  lorem(20)
)
```

> ***You don't have to read this showybox's content***
>
> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.

3.5. Body styles

This parameter contains all options that are useful for setting general-style properties for the showybox's body.
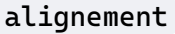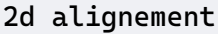
color `color`

Body's text color. It can be any possible color in Typst.

Default is `black`.

```
#showybox(
  body-style: (
    color: blue
  ),
  title-style: (
    color: red
  ),
  frame: (
    title-color: white
  ),
  title: "Colored title!"
)[*with colored body :)*]
```

Colored title!

with colored body :)

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align `alignement` `2d alignement`

How to align body's content. It can be an unidimensional alignement or a bidimensional alignement.

Default is `left`.

```
#showybox(
  body-style: (
    align: center
  ),
  title: "Somes you have to say"
)[
  _#lorem(25)_

  and move on with your life
]
```

Somes you have to say

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus.

and move on with your life

3.6. Footer styles

This parameter contains all options that are useful for setting showybox's footer properties. Despite you can set some of this properties while setting `footer` parameter, it becomes a useful option while making several showyboxes with similar styles.

color `color`

Footer's text color. It can be any possible color in Typst.

Default is `luma(85)`.

```
#showybox(
  footer-style: (
    color: purple
  ),
  body-style: (
    color: blue
  ),
  title-style: (
    color: red
  ),
  frame: (
    title-color: white,
```

```
      footer-color: white
  ),
  title: "Colored title!",
  footer: "And colored footer!!!"
)[*with colored body :)*]
```

```
Colored title!

with colored body :)

And colored footer!!!
```

weigth `integer` `string`

Footer's font weight. It could be an integer between `100` and `900`, or a predefined weight name (`"thin"`, `"extralight"`, `"light"`, `"regular"`, `"medium"`, `"semibold"`, `"bold"`, `"extrabold"` and `"black"`).

Default is `"regular"`.

```
#showybox(
  footer-style: (
    color: black,
    weight: "thin"
  ),
  frame: (
    footer-color: white
  ),
  footer: "Thin footer!"
)[This showybox's footer is so thin that I can't even read it!]
```

```
This showybox's footer is so thin that I can't even read it!

Thin footer!
```

align `alignement` `2d alignement`

How to align footer's content. It can be an unidimensional alignement or a bidimensional alignement.

Default is `left`.

```
#showybox(
  footer-style: (
    align: center + horizon
  ),
  footer: block(height: 1cm)[... is the _center_ of your problems]
)[Your #emph("horizon")-tal perspective of the world...]
```

> Your *horizon*-tal perspective of the world...
>
> ... is the *center* of your problems

`sep-thickness` `length`

How much is the thickness of the separator line that is between the body adn the footer.

Default is `1pt`.

```
#showybox(
  footer-style: (
    color: black,
    sep-thickness: 2pt
  ),
  frame: (
    thickness: (left: 2pt),
    radius: 0pt,
    border-color: yellow.darken(50%),
    footer-color: yellow.lighten(85%),
    body-color: yellow.lighten(85%),
  ),
  footer: [*_You don't have to read this showybox's content_*],
  lorem(20)
)
```

> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.
>
> ***You don't have to read this showybox's content***

3.7. Separator properties

This parameter contains all options that are used for setting all the separator's styles of your showybox. To learn more about how to use separators, see Section 4.

`thickness` `length`

Corresponds to the separator thickness.

Default is `1pt`.

```
#showybox(
  title: "Recipe for a banana split",
  sep: (
    thickness: 3pt
  ),
  frame: (
```

```
      border-color: yellow.darken(15%),
      title-color: yellow.darken(15%),
      body-color: yellow.lighten(80%)
  )
)[First, take a banana.][Then, split it.]
```

Recipe for a banana split

First, take a banana.

Then, split it.

---

gutter `relative length`

The size of the gutter space above and below the separator.

Default is `0.65em`.

```
#showybox(
  sep: (
    gutter: 3em
  )
)[Sometimes you just need][more space :)]
```

Sometimes you just need

more space :)

---

dash `string`

It's the separator's dash pattern. It can be any kind of dash style used for `line`().
For example, it can be `"solid"`, `"dotted"`, `"densely-dotted"`, `"loosely-dotted"`,
`"dashed"`, `"densely-dashed"`, `"loosely-dashed"`, `"dash-dotted"`, `"densely-dash-
dotted"` or `"loosely-dash-dotted"`

Default is `"solid"`.

```
#showybox(
  title: "Recipe for a strawberry split",
  frame: (
    title-color: red,
    border-color: red
  ),
  sep: (
    dash:"loosely-dashed"
```

```
  )
)[First, take a strawberry.][Then, split it.]
```

> **Recipe for a strawberry split**
>
> First, take a strawberry.
> -
> Then, split it.

3.8. Shadow properties

This parameter contains all options that are used for showing a showybox with a shadow. When this property is absent (i.e. it's not set or set as none), the showybox has no shadow.

color `color`

Shadow's color. It can be anny possible color in Typst.

Default is luma(128).

```
#showybox(
  shadow: (
    color: yellow.lighten(50%)
  ),
  frame: (
    border-color: red.darken(25%),
    title-color: red.darken(25%)
  ),
  title: "I'm in the shadows"
)[Meanwhile you are visible to the world, I stay hidden. I'm inmerse in the
shadows of the world and no one can find me!]
```

> **I'm in the shadows**
>
> Meanwhile you are visible to the world, I stay hidden. I'm inmerse in the shadows of the world and no one can find me!

offset `relative length` `dictionary`

How much to offset the shadow in x and y direction either as a `relative length` or a `dictionary` with keys x and y.

Default is 4pt.

```
#showybox(
  shadow: (
    offset: (x: 0pt, y: 4pt)
```

```
    )
)[The Sun is facing me straight from above!]
```

> The Sun is facing me straight from above!

```
#showybox(
    shadow: (offset: 5pt)
)[Now the Sun is facing me diagonally!]
```

> Now the Sun is facing me diagonally!

3.9. Width

This parameter sets the showybox's width.

Default is `100%`.

```
#showybox(
    width: 50%,
    title: "Half news"
)[Today the Prime Minister said that all the clocks in the world will only
count to 6, as a measure to save time.]
```

Half news

Today the Prime Minister said that all the clocks in the world will only count to 6, as a measure to save time.

3.10. Align

How to align showybox inside it's container (useful for showyboxes with `width < 100%`).

Default is `left`.

```
#showybox(
    width: 50%,
    align: center,
    title: "Join the Center Party!"
)[We're glad to always be at the center of everything :)]
```

Join the Center Party!
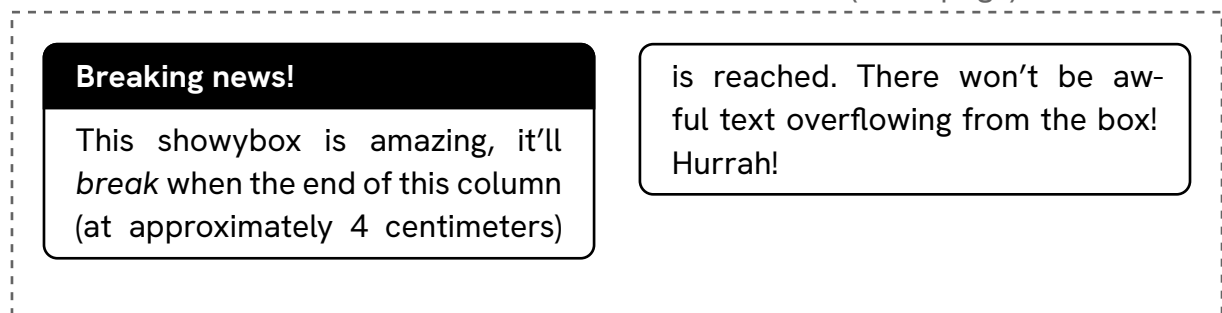
We're glad to always be at the center of everything :)

3.11. Breakable

This parameter indicates whether a showybox can or cannot break if it reaches an end of page or the end of its container.

Default is `false`.

```
#showybox(
  breakable:true,
  title: "Breaking news!"
)[This showybox is amazing, it'll _break_ when the end of this column (at
approximately 4 centimeters) is reached. There won't be awful text overflowing
from the box! Hurrah!]
```

This box acts like a container with fixed size (like a page)

Breaking news!

This showybox is amazing, it'll *break* when the end of this column (at approximately 4 centimeters)

is reached. There won't be awful text overflowing from the box! Hurrah!

3.12. Spacing

How much space to insert above and below the showybox.

By default it's the `block`'s default spacing in your document.

```
#showybox(
  spacing: 4em
)[This showybox has enough space above and below]
```

This showybox has enough space above and below

3.13. Above

Hoy much spacing to insert above the showybox.

By default it's the `block`'s default spacing in your document.

```
#showybox(
  above: 2cm
)[This showybox has enough space above it]
```

> This showybox has enough space above it

3.14. Below

Hoy much spacing to insert below the showybox.

By default it's the `block`'s default spacing in your document.

```
#showybox(
  below: 2cm
)[This showybox has enough space below it]
```

> This showybox has enough space below it

4. Separators

Sometimes you would wish to split a content into two or more sections inside the same showybox. The `showybox()` function allows you to do that by putting several `content` elements separated by commas inside the parenthesis `()` of the function. Each individual `content` element will be a separated section inside the showybox.

Alternatively, you can put adjacent `content` elements one after another next to the closing parenthesis of the function. Both cases are shown below.

```
// Sections inside the function
#showybox(
  title: "Separated showybox",
  [At this point, creativity is over. So in order to complete this example,
let's use the good old Lorem Ipsum],
  lorem(30)
)

// Sections outside tht function
#showybox(
  title: "Separated showybox"
)[At this point, creativity is over. So in order to complete this example,
let's use the good old Lorem Ipsum][#lorem(30)]
```

Separated showybox

At this point, creativity is over. So in order to complete this example, let's use the good old Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri.

5. Encapsulation

Showyboxes can be put inside another showyboxes! As you may think, it's easy to do it: just put a showybox inside the body of another, and ta-da!

```
#showybox(
  title:"Your problems are here",
  showybox(
    title: "I'm the center of your problems",
    [It's funny because I ran out of ideas!]
  )
)
```

Your problems are here

I'm the center of your problems

It's funny because I ran out of ideas!