Welcome To Presentate!

Tools for creating integrated dynamic slides.

@pacaunt | 2025-10-16

Outline

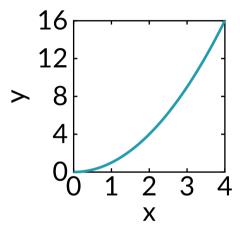
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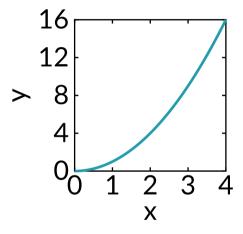
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1 Introduction



Presentation's objective is to convey information to the audiences. **Slide deck** is one of visual media we can use for such tasks.

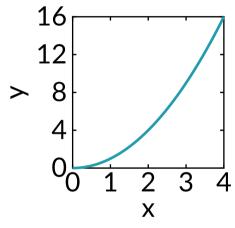


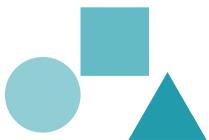


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Often, using visual tools is easy, as you can modify what you want. However, we have to admit that sometimes creating visual media is *easier in code*.







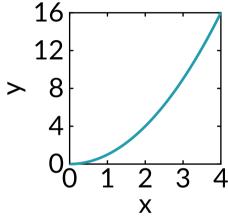
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Imagine creating visual graphs that update directly from your source project.

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Imagine creating visual graphs that update directly from your source project.

So you don't have to update them manually.

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Creating presentation in Typst, especially in PDF format, cannot provide the *actual animated* scenes like videos.

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However, the *dynamic* contents on the following examples are generated by *repeatedly printed* each page, which contains slightly different components.

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Creating presentation in Typst, especially in PDF format, cannot provide the *actual animated* scenes like videos.

However, the *dynamic* contents on the following examples are generated by *repeatedly printed* each page, which contains slightly different components.

A A A A A A

So that when you see on the screen, it *looks like* the contents are changing.

Presentate is another package written in Typst for creating slides.

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We already have other powerful presentation packages! So it rises a question:

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Why creating another?

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We already have other powerful presentation packages! So it rises a question:

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The answer is **Package Integrations**.

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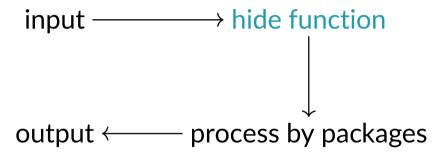
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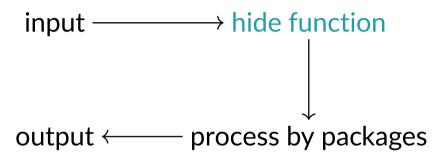


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- CeTZ: arrays of functions
- Fletcher: special metadata
- Alchemist: arrays of dictionary



So to create animation with those packages, we need some functionality to be able to *hide* the information *without* content generation.

Here is when presentate comes in.

¹https://typst.app/universe/package/alchemist

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Presentate provides a framework for rendering input and output of any kind.

Like the following molecule drawing animation from Alchemist¹ package:

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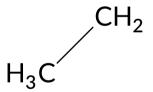
 H_3C

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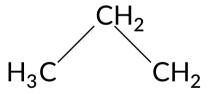


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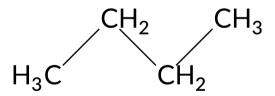


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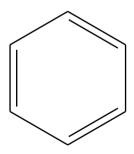
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$$CH_2$$
 CH_3 CH_2



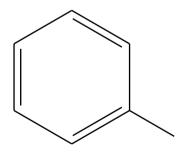
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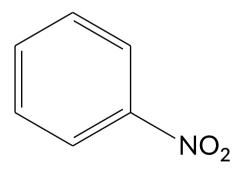
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```
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The package provides:

- revealing content step-by-step from #show: pause,
- revealing content specifically from #uncover(...) and #only(...),

• transform content by #transform(..),

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The package provides:

- revealing content step-by-step from #show: pause,
- revealing content specifically from #uncover(...) and #only(...),

- transform content by #transform(..),
- relative index like #auto and #none,
- render frame for package integration, with #animation module.

1.5 Acknowledgement

The package was created by mixing my original motivation and insprations from many existing presentation packages.

Thanks to: Polylux² for subslide implementation and pdfpc support, Touying³ for idea of render frame, fake frozen states, and Minideck⁴ for #only, and #uncover functions.

²https://github.com/polylux-typ/polylux

³https://github.com/touying-typ/touying

⁴https://github.com/knuesel/typst-minideck

2 Usage

Start with the following snippets:

```
1 #import "@preview/presentate:0.2.1": *
  #set text(size: 25pt) // of your choice
3
  #slide[
   Hello World!
6
    #show: pause;
8
    This is `presentate`.
9 ]
```

Then you will have:

Hello World!	Hello World! This is presentate.

You may styling the way you want, for example:

```
1 #import "@submit/presentate:0.2.0": *
  #set page(paper: "presentation-16-9")
3 #set text(size: 25pt, font: "FiraCode Nerd Font Mono")
4 #set align(horizon)
5 #slide[
    = Welcome to Presentate!
6
   \ A lazy author \
8
    #datetime.today().display()
9 ]
```

(continued)

```
10 #set align(top)
   #slide[
     == Tips for Typst.
12
13
     #set align(horizon)
     Do you know that $pi !=
14
     3.141592$?
15
16
     #show: pause
     Yeah. Certainly.
17
```

```
18
19  #show: pause
20  Also $pi != 22/7$.
21 ]
```

(continued)

```
10 #set align(top)
   #slide[
12
     == Tips for Typst.
13
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     Do you know that $pi !=
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15
16
     #show: pause
17
     Yeah. Certainly.
```

```
18
19  #show: pause
20  Also $pi != 22/7$.
21 ]
```

Presentate does not interfere Typst styling systems, so you can set and unset anything freely.

The results are on the next slide:

Welcome to Presentate!

A lazy author 2025-08-11

Tips for Typst.

Do you know that $\pi \neq 3.141592$?

Tips for Typst.

Do you know that $\pi \neq 3.141592$? Yeah. Certainly.

Tips for Typst.

Do you know that $\pi \neq 3.141592$? Yeah. Certainly. Also $\pi \neq \frac{27}{7}$.

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As the example showing the use of #show: pause functionality.

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- 2. #uncover(...) and #only(...) for precise steps of revealing content.

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Presentate provides the following functions for creating dynamic slides:

- 1. #pause(...) for basic reveal of content in chunks.
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- 1. #pause(...) for basic reveal of content in chunks.
- 2. #uncover(...) and #only(...) for precise steps of revealing content.
- 3. #fragments(...) for revealing content one-by-one.
- 4. #transform(...) for transform the content by functions.

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- 1. #pause(...) for basic reveal of content in chunks.
- 2. #uncover(...) and #only(...) for precise steps of revealing content.
- 3. #fragments(...) for revealing content one-by-one.
- 4. #transform(...) for transform the content by functions.
- 5. #render(..) and #animate(..) for handling non-content type data.

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Apart from that, you can put any content in the (..), e.g. math equations.

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$$(x + y)^2 = (x + y)(x + y)$$

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as from

```
1 $ (x + y)^2 pause(&= (x + y)(x + y)) \
2 pause(&= x^2 + 2 \times y + y^2) $
```

Imagine having to type

```
1 #pause[+ A]
2 #pause[+ B]
3 #pause[+ C]
```

to reveal A to C consecutively;

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Indroducing #fragments(..):

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Indroducing #fragments(..):

```
1 #fragments[+ A][+ B][+ C]
```

Output:

```
    1.
    2.
    3.
```

Imagine having to type

```
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2 #pause[+ B]
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```

Output:

```
    A
    A
    3.
```

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```

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    A
    B
    C
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Imagine having to type

```
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3 #pause[+ C]
```

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Indroducing #fragments(..):

```
1 #fragments[+ A][+ B][+ C]
```

Output:

```
1. A
2. B
3. C
```

Note: default #hide function cannot hide the number or list markers. To solve this, we will introduce the alternative way to 'hide' them.

This function was created specifically for step-by-step revealing lists and enums, with ability to hide the markers and numbers.

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```
1 #step-item[
2  + First Item
3  + Second Item
4  + Third Item
5 ]
Output:
```

This function was created specifically for step-by-step revealing lists and enums, with ability to hide the markers and numbers.

```
1 #step-item[
2  + First Item
3  + Second Item
4  + Third Item
5 ]
```

Output:

1. First Item

This function was created specifically for step-by-step revealing lists and enums, with ability to hide the markers and numbers.

```
1 #step-item[
2  + First Item
3  + Second Item
4  + Third Item
5 ]
```

Output:

- 1. First Item
- 2. Second Item

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This function was created specifically for step-by-step revealing lists and enums, with ability to hide the markers and numbers.

```
1 #step-item[
2  + First Item
3  + Second Item
4  + Third Item
5 ]
```

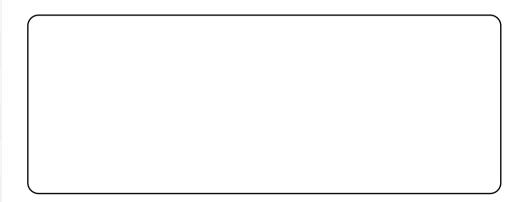
Output:

- 1. First Item
- 2. Second Item
- 3. Third Item

It can be nested as long as you like.

```
#step-item[
    + First Item
      #step-item[
         - Sub-First
         - Sub-First-Second
6
    + Second Item
    + Third Item
9 ]
```

Output:



It can be nested as long as you like.

```
#step-item[
    + First Item
      #step-item[
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6
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Output:

- 1. First Item
 - Sub-First
 - Sub-First-Second
- 2. Second Item
- 3. Third Item

It can be nested as long as you like.

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```

Output:

- 1. First Item
 - Sub-First
 - Sub-First-Second
- 2. Second Item
- 3. Third Item

It works by modifying item input and the markers with varying timeline of #pause.

Every function that can 'hide' and reveal content has a named argument called #hider. This argument has a default value of Typst's native #hide() function.

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However, if you want other modes of *hiding* something? E.g. make it *transparent*. You can modify this with #text.with(fill: gray.transparentize(50%)):

```
1 #let lg = gray.transparentize(50%)
2 #let pause = pause.with(hider: text.with(lg))
3
4 Hello!
5 #show: pause
6
7 It's gray
```

Output:

Hello!

It's gray

```
1 #let lg = gray.transparentize(50%)
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4 Hello!
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```

Output:

Hello! It's gray

So far, #pause and #fragments examples only show you to reveal the content *step-by-step*. How about *absolutely* reveal content? Say, at a given number of frames?

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A **frame** or **subslide** is a page that contains fragments of slides' content, so that when all pages are viewed consecutively, we can see the *change* of content.

So far, #pause and #fragments examples only show you to reveal the content *step-by-step*. How about *absolutely* reveal content? Say, at a given number of frames?

A **frame** or **subslide** is a page that contains fragments of slides' content, so that when all pages are viewed consecutively, we can see the *change* of content.

For a more complex animation, #only and #uncover functions can control when the content will be shown based on given number of frames, or *subslide number*.

```
1 Content Before
2
3 #only(2, 4)[
4 This is _only_ shown on subslide 2 and 4.
5 ]
6
7 Content After
```

Output: on subslide 1

Content Before

Content After

```
1 Content Before
2
3 #only(2, 4)[
4 This is _only_ shown on subslide 2 and 4.
5 ]
6
7 Content After
```

Output: on subslide 2

Content Before

This is *only* shown on subslide 2 and 4.

Content After

#only(..n, body) shows the #body only at the given subslide numbers #n.
For other frames, the content is vanished, with no preserved space.

```
1 Content Before
2
3 #only(2, 4)[
4 This is _only_ shown on subslide 2 and 4.
5 ]
6
7 Content After
```

Output: on subslide 3

Content Before

Content After

#only(..n, body) shows the #body only at the given subslide numbers #n.
For other frames, the content is vanished, with no preserved space.

```
1 Content Before
2
3 #only(2, 4)[
4 This is _only_ shown on subslide 2 and 4.
5 ]
6
7 Content After
```

Output: on subslide 4

Content Before

This is *only* shown on subslide 2 and 4.

Content After

#only(..n, body) shows the #body only at the given subslide numbers #n.
For other frames, the content is vanished, with no preserved space.

```
1 Content Before
2
3 #uncover(2, from: 4)[
4 This is _uncovered_ on subslide 2 and 4 onwards.
5 ]
6
7 Content After
```

Output: on subslide 1

Content Before

Content After

```
1 Content Before
2
3 #uncover(2, from: 4)[
4 This is _uncovered_ on subslide 2 and 4 onwards.
5 ]
6
7 Content After
```

Output: on subslide 2

Content Before

This is *uncovered* on subslide 2 and 4 onwards.

Content After

#uncover(..n, from: int, body) uncovers the #body in the same condition as #only,
with an exception of having space preserved.

```
1 Content Before
2
3 #uncover(2, from: 4)[
4 This is _uncovered_ on subslide 2 and 4 onwards.
5 ]
6
7 Content After
```

Output: on subslide 3

Content Before

Content After

#uncover(..n, from: int, body) uncovers the #body in the same condition as #only,
with an exception of having space preserved.

```
1 Content Before
2
3 #uncover(2, from: 4)[
4 This is _uncovered_ on subslide 2 and 4 onwards.
5 ]
6
7 Content After
```

Output: on subslide 4

Content Before

This is *uncovered* on subslide 2 and 4 onwards.

Content After

#uncover(..n, from: int, body) uncovers the #body in the same condition as #only,
with an exception of having space preserved.

If you noticed the last example carefully, you will see the argument #from being introduced in the #uncover(from: int, ...).

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Both #only and #uncover can take the #from as integer to start revealing the content only after that subslide number #from.

Not only integers can you use as subslide number, #auto and #none also can be used. What do they do?

If you want to reveal a yellow box once in a frame after some stream of content, say the following code:

```
1 Content #show: pause; Content
2
3 #uncover(3, rect(
4 fill: yellow, [BOX]
5 ))
```

Output: on subslide 1

Content

If you want to reveal a yellow box once in a frame after some stream of content, say the following code:

```
1 Content #show: pause; Content
2
3 #uncover(3, rect(
4 fill: yellow, [BOX]
5 ))
```

Output: on subslide 2

Content Content

If you want to reveal a yellow box once in a frame after some stream of content, say the following code:

```
1 Content #show: pause; Content
2
3 #uncover(3, rect(
4 fill: yellow, [BOX]
5 ))
Output: on subslide 3

Content Content

BOX
```

You must know the current number of #pauses to determine the subslide number where the BOX must be shown.

If you want to reveal a yellow box once in a frame after some stream of content, say the following code:

```
1 Content #show: pause; Content
2
3 #uncover(3, rect(
4 fill: yellow, [BOX]
5 ))

Output: on subslide 4

Content Content
```

You must know the current number of #pauses to determine the subslide number where the BOX must be shown. Is there an alternative? Yes: Relative Indices

Index (plural: Indices) is subslide number.

Index specified in #uncover, #only, and other arguments that requires it has 2 types:

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 - #auto means index after the current number of pauses.

Index (plural: Indices) is subslide number.

Index specified in #uncover, #only, and other arguments that requires it has 2 types:

- 1. Absolute index: the actual integer subslide number, and
- 2. **Relative** index: #auto and #none, relative to number of pauses
 - #auto means index after the current number of pauses.
 - #none means index as same as the current number of pauses.

Example: Uncover the yellow box on subslide 5 and after current pauses state, together with only show X on the same subslide as the current pauses.

```
1 Content #show: pause; Content
2
3 #uncover(auto, 5, rect(
4 fill: yellow, [BOX]
5 ))
6
7 After Content #only(none, [X])
```

Output: on subslide 1

Content

Example: Uncover the yellow box on subslide 5 and after current pauses state, together with only show X on the same subslide as the current pauses.

```
1 Content #show: pause; Content
2
3 #uncover(auto, 5, rect(
4 fill: yellow, [BOX]
5 ))
6
7 After Content #only(none, [X])
```

Output: on subslide 2

Content Content

After Content X

Example: Uncover the yellow box on subslide 5 and after current pauses state, together with only show X on the same subslide as the current pauses.

```
1 Content #show: pause; Content
2
3 #uncover(auto, 5, rect(
4 fill: yellow, [BOX]
5 ))
6
7 After Content #only(none, [X])
```

Output: on subslide 3

Content Content

BOX

After Content

2.8 Relative Indices

Example: Uncover the yellow box on subslide 5 and after current pauses state, together with only show X on the same subslide as the current pauses.

```
1 Content #show: pause; Content
2
3 #uncover(auto, 5, rect(
4 fill: yellow, [BOX]
5 ))
6
7 After Content #only(none, [X])
```

Output: on subslide 4

Content Content

After Content

2.8 Relative Indices

Example: Uncover the yellow box on subslide 5 and after current pauses state, together with only show X on the same subslide as the current pauses.

```
1 Content #show: pause; Content
2
3 #uncover(auto, 5, rect(
4 fill: yellow, [BOX]
5 ))
6
7 After Content #only(none, [X])
```

Output: on subslide 5

Content Content

BOX

After Content

If you look at the last example carefully, it is noticeable that when After Content appears, it follows the #show: pause function, as if there where no #uncover in between.

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However, what if we want to reveal some content afterwards, after every animation, without the need of specifying the subslide number?

If you look at the last example carefully, it is noticeable that when After Content appears, it follows the #show: pause function, as if there where no #uncover in between.

However, what if we want to reveal some content afterwards, after every animation, without the need of specifying the subslide number?

If only the #pause 'sees' the #uncover's presence, it would be good, right?

Yes, it can, by set the argument #uncover(update-pause: true).

Example: The yellow box is revealed on subslide 5 and after the current pauses, with After Content appears after every animation.

```
1 Content #show: pause; Content
2
3 #uncover(auto, 5, rect(
4 fill: yellow, [BOX]
5 ), update-pause: true)
6
7 #pause[After Content]
```

Output: on subslide 1

Content

Example: The yellow box is revealed on subslide 5 and after the current pauses, with After Content appears after every animation.

```
1 Content #show: pause; Content
2
3 #uncover(auto, 5, rect(
4 fill: yellow, [BOX]
5 ), update-pause: true)
6
7 #pause[After Content]
```

Output: on subslide 2

Content Content

Example: The yellow box is revealed on subslide 5 and after the current pauses, with After Content appears after every animation.

```
1 Content #show: pause; Content
2
3 #uncover(auto, 5, rect(
4 fill: yellow, [BOX]
5 ), update-pause: true)
6
7 #pause[After Content]
```

Output: on subslide 3

Content Content

BOX

Example: The yellow box is revealed on subslide 5 and after the current pauses, with After Content appears after every animation.

```
1 Content #show: pause; Content
2
3 #uncover(auto, 5, rect(
4 fill: yellow, [BOX]
5 ), update-pause: true)
6
7 #pause[After Content]
```

Output: on subslide 4

Content Content

Example: The yellow box is revealed on subslide 5 and after the current pauses, with After Content appears after every animation.

```
1 Content #show: pause; Content
2
3 #uncover(auto, 5, rect(
4 fill: yellow, [BOX]
5 ), update-pause: true)
6
7 #pause[After Content]
```

Output: on subslide 5

Content Content

BOX

Example: The yellow box is revealed on subslide 5 and after the current pauses, with After Content appears after every animation.

```
1 Content #show: pause; Content
2
3 #uncover(auto, 5, rect(
4 fill: yellow, [BOX]
5 ), update-pause: true)
6
7 #pause[After Content]
```

Output: on subslide 6

Content Content

After Content

#update-pause argument updates the current pauses to the maxium index. In the example, #auto resolves to 3, so 5 is the maximum.

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However, the ability to affect the #pause(..) progress unlocks one powerful key:

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However, the ability to affect the #pause(...) progress unlocks one powerful key:

Number of pauses can be varied and independent from actual number of #pauses.

If we use #only or #uncover to change them, for example:

Content can be revealed parallel on side by side.

```
1 #grid(columns: (1fr, 1fr))[
2 First \ #show: pause;
3 A #show: pause; B
4 ][ // `[]` is a dummy content.
5 #uncover(1, [], update-pause: true)
6 Second \ #show: pause;
7 A #show: pause; B
8 ]
```

Output: on subslide 1

First Second

The content on both columns are shown synchronously, because the pauses are *set* to 1 (first subslide) by #uncover.

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6 Second \ #show: pause;
7 A #show: pause; B
8 ]
```

Output: on subslide 2

First	Second	
А	Α	

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Content can be revealed parallel on side by side.

```
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6 Second \ #show: pause;
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8 ]
```

Output: on subslide 3

First	Second	
АВ	AB	

The content on both columns are shown synchronously, because the pauses are *set* to 1 (first subslide) by #uncover.

Most of the functions we provide up until now can only create animations of hiding and showing stuff. How about *changing* its appearance? e.g. color?

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You can emphasize your words by using #alert like in this sentence. #alert can alert the audience by wrapping the input with its #func argument, which is #emph function by default.

Most of the functions we provide up until now can only create animations of hiding and showing stuff. How about *changing* its appearance? e.g. color?

You can emphasize your words by using #alert like in this sentence. #alert can alert the audience by wrapping the input with its #func argument, which is #emph function by default.

```
1 Please #alert[FOCUS] me
2 and #alert(
3 func: text.with(fill: red), [Warn]
4 ) them.
```

Output:

Please FOCUS me and Warn them.

Another functions for creating multiple *alerts* is called #transform.

This function wraps the content and change its through a series of functions.

Another functions for creating multiple *alerts* is called #transform. This function wraps the content and change its through a series of functions.

This is very useful for creating step-by-step list alerts or make the content dynamically changing its appearance. For example,

```
1 #let no(body) = body // original apperance
  #let yes(body) = text(fill: red, body)
  #transform([- First Item], yes, no)
  #transform(start: none, [- Second Item], yes, no)
5 #transform(start: none, [- Third Item], yes, no)
```

Output:



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```

Output:

First Item

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```

Output:

- First Item
- Second Item

lacktriangle

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4 #transform(start: none, [- Second Item], yes, no)
5 #transform(start: none, [- Third Item], yes, no)
```

Output:

- First Item
- Second Item
- Third Item

```
#transform(
    codly(highlighted-lines: (1,)),
    codly(highlighted-lines: (4,)) )
  ```python
5 n = input("Number: ")
6 n = int(n)
7 for i in range(n):
 print("Hello World!")
9
```

You can use this to highlight different lines of code with Codly<sup>5</sup>. Output: on subslide 1

```
1 n = input("Number: ")
2 n = int(n)
3 for i in range(n):
4 print("Hello World!")
```

<sup>&</sup>lt;sup>5</sup>https://typst.app/universe/package/codly/

```
#transform(
 codly(highlighted-lines: (1,)),
 codly(highlighted-lines: (4,)))
  ```python
5 n = input("Number: ")
6 n = int(n)
7 for i in range(n):
    print("Hello World!")
9
```

You can use this to highlight different lines of code with Codly⁵. Output: on subslide 2

```
1  n = input("Number: ")
2  n = int(n)
3  for i in range(n):
4   print("Hello World!")
```

⁵https://typst.app/universe/package/codly/

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So presentate provides a *workspace* for rendering stuffs that are not necessary to be in content type, with *non-content updates* for number of frames needed.

Here comes the most powerful, but most complex utilization of Presentate: #render function and #animation module.

As we have told, package integration on presentation animation is sometimes tricky, as they are not happy with **content** input data.

So presentate provides a *workspace* for rendering stuffs that are not necessary to be in content type, with *non-content updates* for number of frames needed.

So you can focus on the animation, without worrying about number of subslides.

Structure of #render

```
1 #render(s => ({
2  import animation: *
3  // your stuff goes here.
4 }, s))
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This function accepts the current animation states, and returns *an array*, of length 2 which

- first member is the shown output,
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This function accepts the current animation states, and returns *an array*, of length 2 which

- first member is the shown output,
- second member is the updated states.

This way, Presentate can both show your output, and update the states, so the other elements on the slide react automatically.

The first member's area only accepts content, intended for updating internal states.

However, to create animation with #render without generating content during the way, Presentate provides the same set of functionality like #pause, #only, #fragments, #alert, #uncover, and so on, with some key differences:

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- 1. These functions must be imported from #animation module.
- 2. The functions will always accepts the *state* (#s) as first positional argument.

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However, to create animation with #render without generating content during the way, Presentate provides the same set of functionality like #pause, #only, #fragments, #alert, #uncover, and so on, with some key differences:

- 1. These functions must be imported from #animation module.
- 2. The functions will always accepts the *state* (#s) as first positional argument.
- 3. You have to update the state variable (#s) manually.

Example 1: Animated CeTZ⁶ diagram. Create an animation drawing two circles, in green and red.

```
#import "@preview/cetz:0.4.1":
canvas, draw
#render(s => ({
   import animation: *
   canvas({
   import draw: *
```

```
pause(s, circle((0, 0),
    fill: green,))

s.push(auto) // update s

pause(s, circle((1, 0),
    fill: red))

})

10 }, s))
```

⁶https://typst.app/universe/package/cetz

Output: on subslide 1

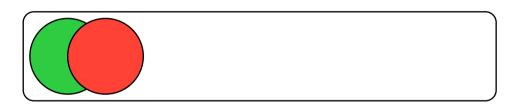
Output: on subslide 2



Output: on subslide 3

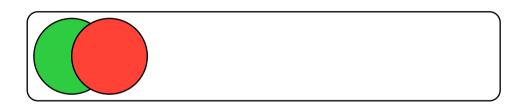


Output: on subslide 4



The default hider of animation. pause is it => none, so it *does not* preserve space.

Output: on subslide 5



The default hider of animation. pause is it => none, so it *does not* preserve space.

However, you can change this by the #draw.hide.with(bounds: true) from native CeTZ to preserve space, by adding the following line before #canvas:

```
1 let pause = pause.with(hider: draw.hide.with(bounds: true))
```

Similarly, you can change the default hider functions to suit your package.

You can change the default #hider by using #settings functions, which will return a dictionary containing the functions:

```
1 // import "@preview/cetz:0.4.1": canvas, draw
2 let (uncover, pause) = settings(hider: draw.hide.with(bounds: true))
```

For this change, the last example would become the Output:

You can change the default #hider by using #settings functions, which will return a dictionary containing the functions:

```
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Updating States: In render function, the state variable #s is the sole information about the number of subslides needed to render all of the animations.

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- #auto is pushed to increase the number of pauses by 1.
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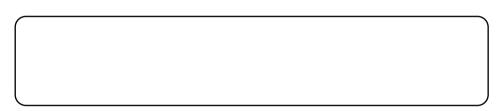
- #auto is pushed to increase the number of pauses by 1.
- 1, 2, 3, .. intergers are pushed to set the **current number of pauses**.
- (1, 2, ...) array of integers are pushed to set the **minimum number of subslides**, without updating pauses.

Example 2: CeTZ drawings with #uncover and #only

```
#import "@preview/cetz:0.4.2":
   canvas, draw
   #render(s => ({
     import animation: *
3
     canvas({
4
5
       import draw: *
       let (uncover, pause) =
        settings(hider:
6
       draw.hide.with(bounds:
       true))
```

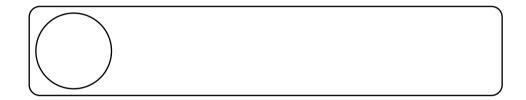
```
pause(s, circle((0, 0)))
        s.push(auto)
       uncover(s, 3,
10
         rect((-1, -1), (1, 1)))
11
       s.push((3,))
       only(s, 4, circle((1, 1)))
12
13
       s.push(4)
14
     })
15 }, s))
```

Output:	on subs	lide 1
---------	---------	--------



Notice that the circle produced by only() does not preserve space, as it uses it => none as hider.

Output: on subslide 2



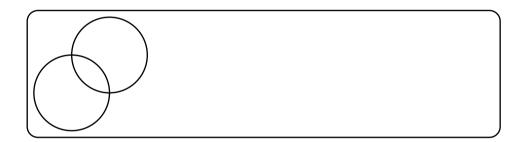
Notice that the circle produced by only() does not preserve space, as it uses it => none as hider.

Output: on subslide 3



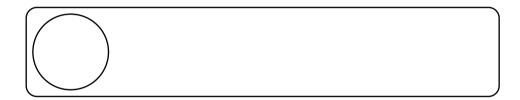
Notice that the circle produced by only() does not preserve space, as it uses it => none as hider.

Output: on subslide 4



Notice that the circle produced by only() does not preserve space, as it uses it => none as hider.

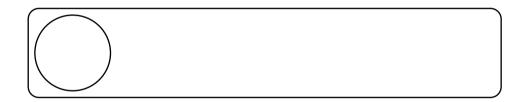
Output: on subslide 5



Notice that the circle produced by only() does not preserve space, as it uses it => none as hider.

The updates: The first #auto increments the pauses, the second #(3,) set the minimum subslides to at least 3 and #4 set the number of pauses to 4.

Output: on subslide 6



Notice that the circle produced by only() does not preserve space, as it uses it => none as hider.

The updates: The first #auto increments the pauses, the second #(3,) set the minimum subslides to at least 3 and #4 set the number of pauses to 4.

All you need to do is to update the #s for each animation.

For total number of subslides needed, Presentate will do the job automatically.

Example 3: Fletcher in math mode diagram, with it => none as hider.

Output: on subslide 1

```
1 #render(s => ({
2  import animation: *
3  diagram($
4    pause(#s, A edge(->)) #s.push(auto)
5    & pause(#s, B edge(->)) #s.push(auto)
6    pause(#s, edge(->, "d") & C) \
7    & pause(#s, D)
8    $,)
9 }, s,))
```

Example 3: Fletcher in math mode diagram, with it => none as hider.

Output: on subslide 2



```
1 #render(s => ({
    import animation: *
3
    diagram($
4
        pause(#s, A edge(->)) #s.push(auto)
5
           & pause(#s, B edge(->)) #s.push(auto)
6
             pause(#s, edge(->, "d") & C) \
          & pause(#s, D)
      $,)
9 }, s,))
```

Example 3: Fletcher in math mode diagram, with it => none as hider.

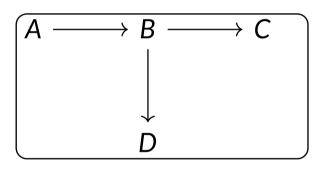
Output: on subslide 3

```
A \longrightarrow B \longrightarrow
```

```
1 #render(s => ({
    import animation: *
3
    diagram($
4
        pause(#s, A edge(->)) #s.push(auto)
5
           & pause(#s, B edge(->)) #s.push(auto)
6
             pause(#s, edge(->, "d") & C) \
          & pause(#s, D)
      $,)
9 }, s,))
```

Example 3: Fletcher in math mode diagram, with it => none as hider.

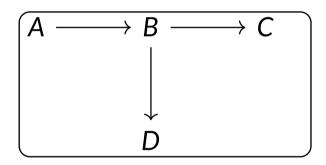
Output: on subslide 4



```
1 #render(s => ({
    import animation: *
3
    diagram($
        pause(#s, A edge(->)) #s.push(auto)
5
          & pause(#s, B edge(->)) #s.push(auto)
6
             pause(#s, edge(->, "d") & C) \
          & pause(#s, D)
      $,)
9 }, s,))
```

Example 3: Fletcher in math mode diagram, with it => none as hider.

Output: on subslide 5



Although not perfect, it is doable.

```
1 #render(s => ({
    import animation: *
3
    diagram($
4
        pause(#s, A edge(->)) #s.push(auto)
5
           & pause(#s, B edge(->)) #s.push(auto)
6
             pause(#s, edge(->, "d") & C) \
          & pause(#s, D)
      $,)
 }, s,))
```

Last examples show us how to hack for drawing stuff that has its own #hider, either provided by the package or we created it.

46

⁷https://typst.app/universe/package/alchemist/

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However, I admitted that using #pause(s, ...) a lot is tedious, do we have a better way?

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Last examples show us how to hack for drawing stuff that has its own #hider, either provided by the package or we created it.

However, I admitted that using #pause(s, ...) a lot is tedious, do we have a better way? How about making the input *reactive* to the states?

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Last examples show us how to hack for drawing stuff that has its own #hider, either provided by the package or we created it.

However, I admitted that using #pause(s, ...) a lot is tedious, do we have a better way? How about making the input *reactive* to the states?

Introducing #animation.animate function, together with a package for drawing molecular structure: Alchemist⁷.

⁷https://typst.app/universe/package/alchemist/

Alchemist does not provide any hider functions to hide the structure. However, we came up with an idea: setting the hidden bond's stroke to #0pt should effectively hide the bonds, right?

Alchemist does not provide any hider functions to hide the structure. However, we came up with an idea: setting the hidden bond's stroke to #0pt should effectively hide the bonds, right?

So we use the hider as a #modifier the function's argument.

```
1 #import "@preview/alchemist:0.1.8": *
2 #let (single,) = animation.animate(
3 single, modifier: (func, ..args) => func(stroke: 0pt, ..args)
4 )
```

Note! The animated functions require #s as the first positional argument.

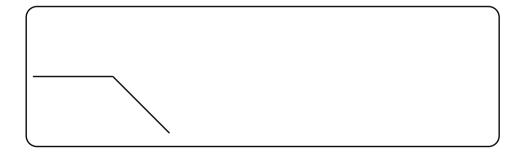
Output: on subslide 1

```
#render(s => ({
     skeletize({
       single(s) // Note the `s`!
3
       branch({
          s.push(auto)
5
          single(s, angle: -1)
6
       })
       s.push(auto)
       single(s, angle: 1)
10
     })
11 }, s))
```

Output: on subslide 2

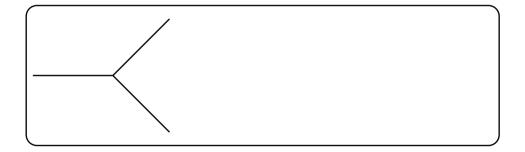
```
#render(s => ({
     skeletize({
       single(s) // Note the `s`!
3
       branch({
          s.push(auto)
5
          single(s, angle: -1)
6
       })
       s.push(auto)
       single(s, angle: 1)
10
     })
11 }, s))
```

Output: on subslide 3



```
#render(s => ({
     skeletize({
       single(s) // Note the `s`!
3
       branch({
          s.push(auto)
5
          single(s, angle: -1)
6
       })
       s.push(auto)
       single(s, angle: 1)
10
     })
11 }, s))
```

Output: on subslide 4



```
#render(s => ({
     skeletize({
       single(s) // Note the `s`!
3
       branch({
          s.push(auto)
5
          single(s, angle: -1)
6
       })
       s.push(auto)
       single(s, angle: 1)
10
     })
11 }, s))
```

Output: on subslide 5



Now the molecule is drawn!

```
#render(s => ({
      skeletize({
       single(s) // Note the `s`!
       branch({
5
          s.push(auto)
          single(s, angle: -1)
6
       })
       s.push(auto)
       single(s, angle: 1)
10
     })
11 }, s))
```

Output: on subslide 6



Now the molecule is drawn!

The #animate is like *modifier* to make the function *aware* to the #s updates.

```
#render(s => ({
      skeletize({
        single(s) // Note the `s`!
        branch({
5
          s.push(auto)
          single(s, angle: -1)
6
       })
        s.push(auto)
        single(s, angle: 1)
9
10
     })
11 }, s))
```

Presentate provides three modes for different purposes:

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- Normal for animated slides. [Default]
- Handout for disabling all animations.
- Drafted for showing the subslide number.

Normal mode is to do nothing, for the last two options, you can set them via

```
1 #set-options(handout: true, drafted: true)
```

The slide you are viewing is the *simple* theme of Presentate. You can use it by typing the following lines:

```
1 #import themes.simple: *
2 #show: template.with(
3 author: [Pacaunt], // change to yours!
4 title: [Welcome To Presentate!],
5 subtitle: [Slides Tools.],
6 )
```

The theme provides the following slides:

- #slide(title, body) which if no title, it will repeat the last topic.
- #empty-slide(body) which is empty and has no margin, header, and footer.
- #focus-slide(body) which is colored, vibrant slide for getting attention.

The preview is on the next slide:



```
= New Section
   #slide[Hello][
3
     This is Simple theme slide.
4
5
6
   #slide[
      Slide with no title will
      continue from the last title.
8
9
```

```
10 #focus-slide[
     This should be focus!
12 1
13
   #empty-slide[
     #set align(center + horizon)
15
     `#empty-slide` is the slide
16
     with nothing, \
     even the `header` and
17
     `footer`.
18 ]
```

Another theme is *default* theme. It is very minimal, as it sets the paper and text font and sizes, provided with new section slides.

Another theme is *default* theme. It is very minimal, as it sets the paper and text font and sizes, provided with new section slides.

You can import it with

```
1 #import themes.default: *
2 #show: template.with(
3 aspect-ratio: "16-9"
4 )
```

Another theme is *default* theme. It is very minimal, as it sets the paper and text font and sizes, provided with new section slides.

You can import it with

```
1 #import themes.default: *
2 #show: template.with(
3 aspect-ratio: "16-9"
4 )
```

and then you will have #slide(body), which are normal slide function, and #empty-slide(body) for a slide with no header, footer, and margins.

Some example of the Default theme.

	Hello This is default theme slide.	
New Section		#empty-slide is the slide with nothing, even the header and footer.

```
# #empty-slide[

# set align(center + horizon)

# empty-slide` is the slide
with nothing, \

even the `header` and
`footer`.
12 ]
```

By default Presentate is still young and does not provide more themes currently, but the integration of Typst styling in Presentate should be seamless, and convenient enough to create by yourself:)

For more information, you can contact us at Presentate's github

(https://github.com/pacaunt/typst-presentate/)

Enjoy making presentation!