

Presentate: Dynamic Features

A systematic test of animation tools

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Introduction

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- Basic flow control (pause, fragments)
- Precise visibility (uncover, only)
- Relative indices and timeline synchronization
- Content transformations (alert, transform)
- Advanced package integration (render)

Basic Flow Control

Using #pause

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$$(a + b)^2 = a^2 + 2ab + b^2$$

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Fragment A: Individual content...Fragment B: ...revealed one by one...Fragment C: ...without multiple pause calls.

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- Outer Item 1
 - Nested A

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- Outer Item 1
 - Nested A
 - Nested B

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- Outer Item 1
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- Outer Item 2
- Outer Item 3

Precise Visibility

#uncover VS #only

These functions allow you to show content on specific subslides.

uncover

- Preserves space when hidden.
- Uses `hide()` by default.

only

- Discards space when hidden.
- Content is completely removed.

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subslide 3 onwards.

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Relative Indices

Relative Indices: auto, none, rel

Instead of hardcoding subslide numbers, use relative indices.

- Current pause state: Content A
- : Shown **after** the current pause (next step).
- : Shown **at** the same time as the current pause.
- : Shown 2 steps after the current pause.

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Instead of hardcoding subslide numbers, use relative indices.

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- : Shown 2 steps after the current pause.

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Instead of hardcoding subslide numbers, use relative indices.

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- auto: Shown **after** the current pause (next step).
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Instead of hardcoding subslide numbers, use relative indices.

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- : Shown **at** the same time as the current pause.
- (rel: 2): Shown 2 steps after the current pause.

Timeline Synchronization

Use `update-pause: true` to make subsequent pauses “aware” of the subslides added by `uncover` or `only`.

1. Regular Step
2. Hidden Step
3. This step waits for the surprise because of `update-pause`.

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1. Regular Step
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Content Transformations

Alerts and Emphasis

`#alert` wraps content in a function (default is `emph`) on a specific subslide.

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- Item 2 (Alerted!)

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- Item 1
- *Item 2 (Alerted!)*
- Item 3

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You can customize the alert function: DANGER ALERT

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Complex Transformations

`#transform` allows a sequence of functions to be applied to content across slides.

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Advanced Integration

The #render Workspace

#render is the most powerful tool for integrating other packages (CeTZ, Fletcher). It lets you manually update the subslide state s.

Subslide 1: Cooling Down

The #render Workspace

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Subslide 2: Heating Up!

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Subslide 3: BOILING POINT!

Conclusion

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Happy Presenting!