



made with
Animo

structural.typ

*A demo of the features explained on the page “Structural Animations”
of the Presentation Author Guide*

reproducible-reporting.github.io/animo/structural/

Replace, Apply and Reset

A short line.

This paragraph stays where it is on every state, because a tag whose content changes reserves the room of its largest epoch.

reset *lays out the body as written again, without the wrapper.*

state 3 ○○○●

Inserting Content

An empty tag receives **inserted by the timeline** a replacement.

A word in the body can **arrive later** with a **reset**.

*An empty tag in the body and **replace** in the timeline insert content. A tag whose first content operation is **reset** starts removed.*

reset brings in the body of a tag that started removed.

How They Compose



laid out **B**
wrappers none

`replace` and `remove` set what is laid out and keep the wrappers, `apply` adds wrappers, and `reset` sets both.

`apply("x", emph)`, `reset("x")` applies in order, so the reset wins.

state 7 ○○○○○○●

Several Sites and a Move

$$f(y) = y + 1$$

Both sites of `var` change together.

A different line

`apply` recolors the line, which stays where the `move` put it.

state 3 ○○○●

Epochs

This replacement starts epoch 1.



A new epoch begins at every subslide that holds a structural primitive.

remove starts epoch 2, so typst lays this slide out three times in all.

Space That Is Reserved

This sentence contains a **hidden** word and reserves space for it.

A **a much longer phrase** phrase on a line reserves the width of its longest epoch.

*The rest of the slide does not move, because a tag reserves room for its largest content.
Starting removed and starting hidden look the same inside a reserved box.*

replace *lays out a longer phrase, as wide as the room that was kept for it.*

What a Structural Step Looks Like

The second answer.

a slow dissolve, duration: 2

The second answer.

a hard cut, duration: 0

Neither content travels to meet the other. The old one fades out where the new one fades in.

duration: 0 swaps the content at once, which is a hard cut.