



made with
Animo

morph.typ

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

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

A Paragraph That Reflows

The quick brown fox jumps over the lazy dog, and every word after the insertion moves to its new place, across the end of a line where it has to.

The morph matches the letters one by one, so a paragraph needs no tags to morph. Only the inserted clause fades in, and the word “lazy” changes color on its way.

The body has an empty tag after “fox”, in a region around the paragraph.

A Paragraph That Reflows

The quick brown fox **and a clause inserted** jumps over the **lazy** dog,
and every word after the insertion moves to its new place, across the end
of a line where it has to.

The morph matches the letters one by one, so a paragraph needs no tags to morph. Only the inserted clause fades in, and the word “lazy” changes color on its way.

The clause fades in, and every letter after it travels to its new place.

A Paragraph That Reflows

The quick brown fox jumps over the lazy dog, and every word after the insertion moves to its new place, across the end of a line where it has to.

The morph matches the letters one by one, so a paragraph needs no tags to morph. Only the inserted clause fades in, and the word “lazy” changes color on its way.

reset removes the clause again, and the morph plays the same motion backwards.

Shapes in a Paragraph

A small box  and a figure    move with the words around them when the paragraph reflows, and a fraction $\frac{a}{b}$ moves as well, because its bar keeps its length.

The morph matches a shape by its geometry, as it matches a letter by its glyph. Letters and shapes form one sequence in reading order, so each shape keeps its place.

A box, a small figure and the bar of a fraction sit among the words of one region.

Shapes in a Paragraph

A **small, solid and dark** box  and a figure    move with the words around them when the paragraph reflows, and a fraction $\frac{a}{b}$ moves as well, because its bar keeps its length.

The morph matches a shape by its geometry, as it matches a letter by its glyph. Letters and shapes form one sequence in reading order, so each shape keeps its place.

The shapes travel with the words around them when the paragraph reflows.

Crossfade and Morph

`crossfade()`, the default

This text, with shifts behind a dissolve, where two copies of every shifted word overlap halfway through.

`morph()`

This text, with shifts by moving, where each shifted letter travels to its new place.

A crossfade dissolves the old version of the region into the new version. A morph moves the content that both versions share, and fades only the rest.

Both panels insert the same words, with `duration: 1.5` to make the motion easy to follow.

Crossfade and Morph

`crossfade()`, the default

This text, with **a few words more**, shifts behind a dissolve, where two copies of every shifted word overlap halfway through.

`morph()`

This text, with **a few words more**, shifts by moving, where each shifted letter travels to its new place.

A crossfade dissolves the old version of the region into the new version. A morph moves the content that both versions share, and fades only the rest.

On the left, two copies of each shifted word overlap. On the right, each letter travels.

An Equation That Grows

$$\frac{(a + b)^2}{2}$$

A letter that changes size gets another glyph, so the morph fades it. The bar of the fraction keeps its commands and changes its length, so the morph resizes it.

The tag holds the whole equation.

An Equation That Grows

$$\frac{a^2 + 2ab + b^2}{2}$$

A letter that changes size gets another glyph, so the morph fades it. The bar of the fraction keeps its commands and changes its length, so the morph resizes it.

The letters that keep their size travel, and the bar of the fraction widens.

A Box That Grows

A box with **a few words**

The box keeps its commands when its size changes, so the morph resizes it rather than fading it. The words inside the box move as the letters of a paragraph do.

The box holds a tag with a few words.

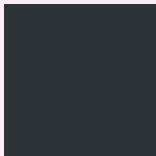
A Box That Grows

A box with **a few more words, which it grows around**

The box keeps its commands when its size changes, so the morph resizes it rather than fading it. The words inside the box move as the letters of a paragraph do.

The box grows around the new words, and its corners keep their radius.

Shapes That Change Their Outline



square to circle



star to pentagon



arrow to line



fill to stroke



rounded corners

A tag that holds one shape before the step and one after it turns the one into the other, whatever their outlines.

Each of the five tags holds exactly one shape.

Shapes That Change Their Outline



square to circle



star to pentagon



arrow to line



fill to stroke

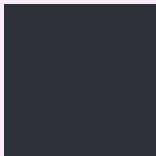


rounded corners

A tag that holds one shape before the step and one after it turns the one into the other, whatever their outlines.

Each shape turns into the new shape, and its fill and stroke change on the way.

Shapes That Change Their Outline



square to circle



star to pentagon



arrow to line



fill to stroke



rounded corners

A tag that holds one shape before the step and one after it turns the one into the other, whatever their outlines.

reset turns every shape back into the shape of the body.

A Tag Moves as One

Without a tag

A clipped box cuts
off this text at its

With a tag

A clipped box cuts
off this text at its

The morph leaves the edges of a clipped box where typst laid them out, so it fades the content of a clipped box that moves. A tag around the box carries the box and its content as one piece.

Both rows hold the same clipped box. Only the lower box sits inside a tag.

A Tag Moves as One

Without a tag

pushed along by these words

A clipped box cuts
off this text at its

With a tag

pushed along by these words

A clipped box cuts
off this text at its

The morph leaves the edges of a clipped box where typst laid them out, so it fades the content of a clipped box that moves. A tag around the box carries the box and its content as one piece.

Words push both boxes along. The upper text fades, and the lower box travels as one piece.