

## PPower4 Demo

PPower4 can be used to postprocess documents for presentations created with pdf`latex`, where parts of the page are to be uncovered step by step during presentation with Acrobat Reader. Additional features include displaying parts of a page in any order, removing items from the page and inserting fancy transitions or backgrounds.

To use `ppower4` you first need to write a presentation in PDF`LaTeX`. The key difference between `LaTeX` and PDF`LaTeX` is the image formats you can include. With 'standard' `LaTeX` you would use EPS files where as with PDF`LaTeX` you use PDF and JPEG files instead. Otherwise PDF`LaTeX` works in the same basic way as `LaTeX`.

This document demonstrates PPower4, look at the `tex` file to see how it was done.

## Acrobat Reader Keys

The document source tells acroread to start up in full screen mode. Useful Keys are

- Escape — switch to none full screen mode
- PgDn or Enter — next page/element of page
- PgUp — previous page/element of page
- Control-Q — Quit

## Backgrounds

A variety of coloured background effects are possible. Predefined colours are red, green, blue, cyan, black and white. Other colours can be defined with the `\definecolor` command using the RGB representation of a colour, e.g.

```
\definecolor{bgmag}{rgb}{0.7,0.39,0.7}.
```

defines a colour called bgmag.

## Monochrome Background

This is done with the command `\pagecolor{red}`.

## Horizontal Colour Change

This is done with the command `\hpagecolor[red]{blue}`. If the optional parameter is not included the colour will fade from light to dark blue rather than from red to blue.

## Vertical Colour Change

This is done with the command `\vpagecolor[red]{bgmag}`.

## An incrementally built formula page using pauses

$$Q(n) = \sum_{i=1}^n i^2 = \frac{1}{3}n(n + \frac{1}{2})(n + 1)$$

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$$\begin{aligned} \left| \frac{1}{3}n^3 + \frac{1}{2}n^2 + \frac{1}{6}n \right| &\leq \left| \frac{1}{3}n^3 \right| + \left| \frac{1}{2}n^2 \right| + \left| \frac{1}{6}n \right| \\ &\leq \frac{1}{3}|n^3| + \frac{1}{2}|n^3| + \frac{1}{6}|n^3| \\ &= |n^3| \end{aligned}$$

## Succession of Transition Test pages

The following page test the different transitions possible. Some are better than others.

## Test Dissolve page change

The old page image 'dissolves' in a piecemeal fashion to the new page image.

Two households, both alike in dignity,  
In fair Verona, where we lay our scene,  
From ancient grudge break to new mutiny,  
Where civil blood makes civil hands unclean.  
From forth the fatal loins of these two foes  
A pair of star-cross'd lovers take their life;  
Whole misadventured piteous overthrows

This is done with the command `\Dissolve`.

## Test HBlinds page change

Multiple lines sweep across the page horizontally to reveal the new page.

Do with their death bury their parents' strife.  
The fearful passage of their death-mark'd love,  
And the continuance of their parents' rage,  
Which, but their children's end, nought could remove,  
Is now the two hours' traffic of our stage;  
The which if you with patient ears attend,  
What here shall miss, our toil shall strive to mend.

This is done with the command `\HBlinds`.

## Test VBlinds page change

Multiple lines sweep across the page vertically to reveal the new page.

Two households, both alike in dignity,  
In fair Verona, where we lay our scene,  
From ancient grudge break to new mutiny,  
Where civil blood makes civil hands unclean.  
From forth the fatal loins of these two foes  
A pair of star-cross'd lovers take their life;  
Whole misadventured piteous overthrows

This is done with the command `\VBlinds`.

## Test HOSplit page change

Two lines sweep across the screen revealing the new page image. The lines are horizontal and move from the center out.

Do with their death bury their parents' strife.  
The fearful passage of their death-mark'd love,  
And the continuance of their parents' rage,  
Which, but their children's end, nought could remove,  
Is now the two hours' traffic of our stage;  
The which if you with patient ears attend,  
What here shall miss, our toil shall strive to mend.

This is done with the command `\HOSplit`.

## Test VOSplit page change

Two lines sweep across the screen revealing the new page image. The lines are vertical and move from the center out.

Two households, both alike in dignity,  
In fair Verona, where we lay our scene,  
From ancient grudge break to new mutiny,  
Where civil blood makes civil hands unclean.  
From forth the fatal loins of these two foes  
A pair of star-cross'd lovers take their life;  
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This is done with the command `\VOSplit`.

## Test HISplit page change

Two lines sweep across the screen revealing the new page image. The lines are horizontal and move from the edges in.

Do with their death bury their parents' strife.  
The fearful passage of their death-mark'd love,  
And the continuance of their parents' rage,  
Which, but their children's end, nought could remove,  
Is now the two hours' traffic of our stage;  
The which if you with patient ears attend,  
What here shall miss, our toil shall strive to mend.

This is done with the command `\HISplit`.

## Test VISplit page change

Two lines sweep across the screen revealing the new page image. The lines are vertical and move from the edges in.

Two households, both alike in dignity,  
In fair Verona, where we lay our scene,  
From ancient grudge break to new mutiny,  
Where civil blood makes civil hands unclean.  
From forth the fatal loins of these two foes  
A pair of star-cross'd lovers take their life;  
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This is done with the command `\VISplit`.

## Test OBox page change

A box sweeps from the center out revealing the new page image.

Do with their death bury their parents' strife.  
The fearful passage of their death-mark'd love,  
And the continuance of their parents' rage,  
Which, but their children's end, nought could remove,  
Is now the two hours' traffic of our stage;  
The which if you with patient ears attend,  
What here shall miss, our toil shall strive to mend.

This is done with the command \OBox.

## Test IBox page change

A box sweeps from the edges inwards revealing the new page image.

Two households, both alike in dignity,  
In fair Verona, where we lay our scene,  
From ancient grudge break to new mutiny,  
Where civil blood makes civil hands unclean.  
From forth the fatal loins of these two foes  
A pair of star-cross'd lovers take their life;  
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This is done with the command `\IBox`.

## Test Wipe page change

A single line sweeps across the screen from one edge to the other revealing the new page image. The argument value is the angle, possible, values are 0, 90, 180 and 270.

Do with their death bury their parents' strife.  
The fearful passage of their death-mark'd love,  
And the continuance of their parents' rage,  
Which, but their children's end, nought could remove,  
Is now the two hours' traffic of our stage;  
The which if you with patient ears attend,  
What here shall miss, our toil shall strive to mend.

This is done with the command `\Wipe{270}`.

## Test Glitter page change

Simliias to Dissolve except the effect sweeps across the image in a wide band from one side of the screen to the other. The argument value is a direction, supported values are 0, 270 and 315.

Two households, both alike in dignity,  
In fair Verona, where we lay our scene,  
From ancient grudge break to new mutiny,  
Where civil blood makes civil hands unclean.  
From forth the fatal loins of these two foes  
A pair of star-cross'd lovers take their life;  
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This is done with the command `\pageTransitionGlitter{315}`.

## Switch back to Replace

Replace is the default setting if it hasn't been previously changed.

Do with their death bury their parents' strife.  
The fearful passage of their death-mark'd love,  
And the continuance of their parents' rage,  
Which, but their children's end, nought could remove,  
Is now the two hours' traffic of our stage;  
The which if you with patient ears attend,  
What here shall miss, our toil shall strive to mend.

This is done with the command `\Replace`.

## Succession of Pause Transitions

The default pause just adds the new content when requested. Other fancy pause/replaces are possible

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Test Dissolve done with `\pauseDissolve`

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Test Dissolve done with `\pauseDissolve`

Test HBlinds done with `\pauseHBlinds`

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The default pause just adds the new content when requested. Other fancy pause/replaces are possible

Test Dissolve done with `\pauseDissolve`

Test HBlinds done with `\pauseHBlinds`

Test VBlinds done with `\pauseVBlinds`

## Succession of Pause Transitions

The default pause just adds the new content when requested. Other fancy pause/replaces are possible

Test Dissolve done with `\pauseDissolve`

Test HBlinds done with `\pauseHBlinds`

Test VBlinds done with `\pauseVBlinds`

Test HOSplit done with `\pauseHOSplit`

# More Pause Transitions

## More Pause Transitions

Test HISplit done with `\pauseHISplit`

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Test HISplit done with `\pauseHISplit`

Test VOSplit done with `\pauseVOSplit`

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Test OBox done with `\pauseOBox`

# Still More Pause Transitions

## Still More Pause Transitions

Test IBox done with `\pauseIBox`

## Still More Pause Transitions

Test IBox done with `\pauseIBox`

Test Wipe `\pauseWipe{180}`

## Still More Pause Transitions

Test IBox done with `\pauseIBox`

Test Wipe `\pauseWipe{180}`

Test Glitter `\pauseGlitter{270}`

## More Advanced Operations

PPower4 can also reveal sections of the page in different orders and highlight sections of the page. For information on these matters see the manual.