

SplitV Demo and Test Cases

SplitV Demo

Advanced Layout Macros for Beamer



Learning goals

- Demonstrate splitV layout capabilities
- Test integration with other environments
- Showcase alignment and spacing features

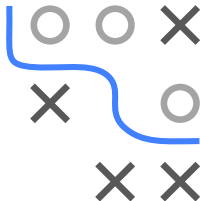
SPLITV OVERVIEW

Key Features

- Works in all contexts including within lists
- Handles alignment consistently
- Improved spacing and layout

Available Layouts

- Two-column layouts with various alignments
- Three-column layouts with equal or custom widths
- Grid layouts for organizing content



Implementation

- Uses `lrbbox` for maximum compatibility
- Simplified codebase for better reliability
- Optimized for beamer slides

Benefits

- Consistent visual appearance
- Easier to create complex layouts
- Works with all beamer features

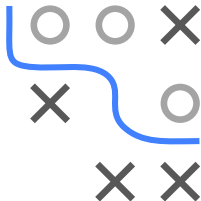
STANDARD TWO-COLUMN LAYOUTS

Center-Center Alignment (CC) Left Column

- This content is centered vertically
- Relative to the right column
- With equal distribution of space

Right Column

This content is also centered vertically.



STANDARD TWO-COLUMN LAYOUTS 2

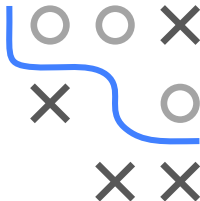
Top-Top Alignment (TT) Left Column (60% width)

- This content aligns to the top
- Creating a different visual balance
- Width can be adjusted as needed

Right Column (40% width)

This content also aligns to the top.

The vertical alignment is consistent regardless of content height.



INTEGRATION WITH FRAME2 ENVIRONMENT

Using splitV inside the frame2 environment with small font.

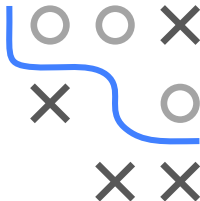
Left Column

- The entire content has smaller font
- Due to the frame2 environment
- SplitV adapts correctly

Right Column



Image scaling works properly with the column width.

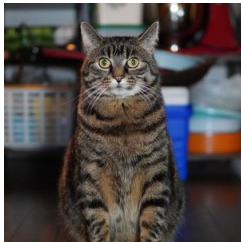


Notice that the spacing and alignment remain consistent despite the font size change.

INTEGRATION WITH FRAMEI ENVIRONMENT

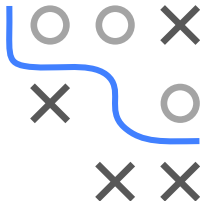
- The framei environment creates an itemize list
- We can nest splitV inside list items
- Using splitVCC within a list item:

- This continues the itemize list
- No need for a nested itemize
- The items appear properly beside the image



Source: ▶ Neo 2025

- Back to the main list
- With proper spacing between elements



THREE-COLUMN LAYOUTS

Equal Width Columns

Column 1

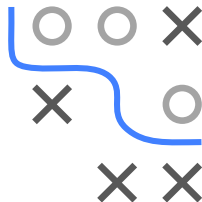
- First item
- Second item

Column 2



Column 3

- Third column
- Last column



THREE-COLUMN LAYOUTS 2

Custom Width Columns

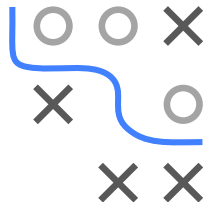
50%

25%
Narrower column



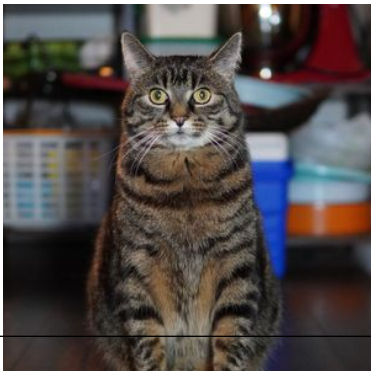
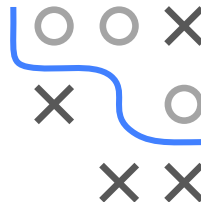
Wider middle column

25%
Narrower column



GRID LAYOUTS

Standard 2x2 Grid



Text Cell

This cell contains text instead of an image

GRID LAYOUTS

Custom Grid

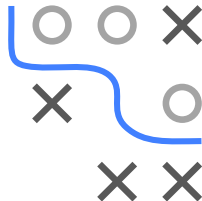
Wider Left Column

- This column takes 60% width
- Good for text-heavy content



Bottom Right

Text in the bottom right cell



COMPACT LAYOUT

splitVCompact Example

Standard layout for reference:

Left Column (40%)

- Regular splitVCC with 40% width
- Uses full textwidth for layout

Right Column (60%)

- Takes remaining width
- With proper spacing

