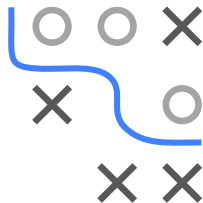# SplitV Demo and Test Cases

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
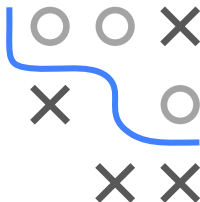- Improved spacing and layout

Implementation

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

Available Layouts

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

Benefits

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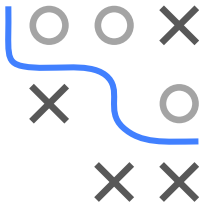- Easier to create complex layouts
- Works with all beamer features

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.
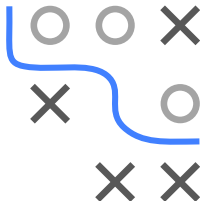
STANDARD TWO-COLUMN LAYOUTS 2

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

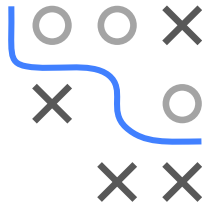Using splitV inside the frame2 environment with small font.

Left Column

- The entire content has smaller font

- Due to the frame2 environment

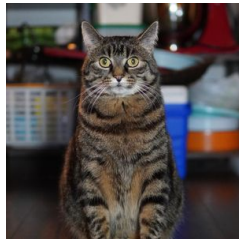- SplitV adapts correctly

Right Column

Image scaling works properly with the column width.

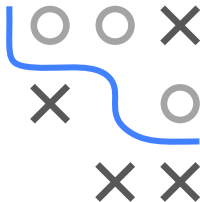Notice that the spacing and alignment remain consistent despite the font size change.

INTEGRATION WITH FRAMEI ENVIRONMENT

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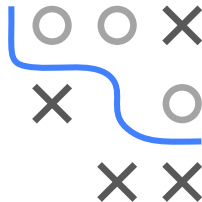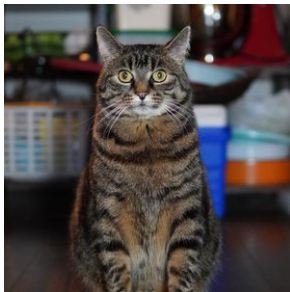- Using splitVCC within a list item:

▸ Click for source

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

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

SPLITV INSIDE REGULAR ITEMIZE

- First regular bullet point

- This appears beside the image
- No need for a nested itemize environment

- We can continue the list afterward
- Another example with top alignment:

- Top-aligned content
- In a normal itemize environment
- Final regular bullet point
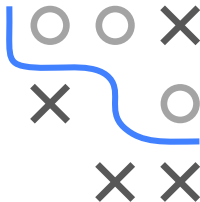
THREE-COLUMN LAYOUTS

Equal Width Columns
Column 1

- First item

- Second item

Column 2

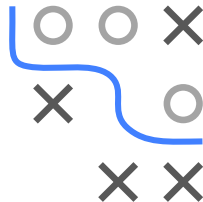**Column 3**

- Third column

- Last column

THREE-COLUMN LAYOUTS 2

Custom Width Columns

50%

25%
Narrower column

25%
Narrower column
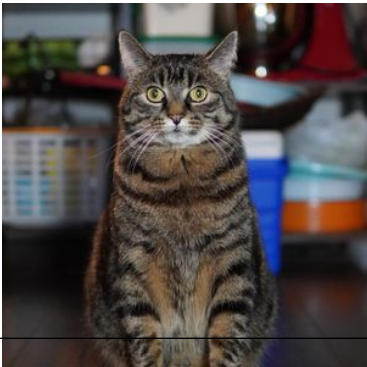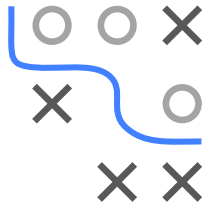
Wider middle column

GRID LAYOUTS

Standard 2×2 Grid

Text Cell
This cell contains text instead of
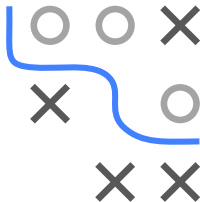an image

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