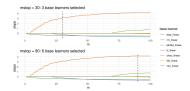
# **Introduction to Debugging Lectures**

# Demo Lecture Layout Macro Testing With Cannibalized Content





#### Learning goals

- Test layout
- Fix stuff
- Go home

### **DEMO SLIDES**

× × ×

This is a demo lecture chunk.

It is recommended to view these slides as PDF and LaTeX code side by side

Refer to the slds-lmu/lecture\_debug repository for the source and PDF:

- Compiled PDF
- LaTeX source

# \SPLITV(TCB)(TCB)

- \splitVCC creates two centered columns
- \splitVTT creates two top-aligned columns
- \splitVBB for bottom-aligned columns



**Left column** these two columns should both be top-aligned with their unequal content lengths

**Right column** Lorem ipsum dolor sit amet, consectetur adipiscing elit

- Example itemize content for centered columns
- Second itemize item

Lorem ipsum dolor sit amet, consectetur adipiscing elit

### **SPLITY WITH UNEQUAL SIZES**

You only need to specify the width of the first column:

× CO

 $\splitVTT[0.75]{left\ content}{right\ content}\ creates\ a\ column\ with\ 75\%\ width\ and\ the\ second\ column\ will\ fill\ the\ remaining\ space:$ 

First column with 75% of the text width on the slide

Second column with rest

Tiny column Second column with a lot of room for activities

### TWO COLUMNS, MINIMAL ADJUSTMENTS

Compact version if you do not want to use the full slide width: \splitVCompact{0.2}{0.2} only takes up 20% of the slide width in each column for a total of 40% with a minimal horizontal spacer:



First column Second colwith 20% umn with 20%

### 3 COLUMNS

Using \splitVThree{Left}{Middle}{Right} for 3 equally sized columns:

× × ×

First column content is here

Second column content is here as well

And also a third column is here just in case

Then there is \splitVThreeCustom for three columns of arbitrary widths, where the width of the third column can also be inferred from the first two

first column second with 20% column with width 20% width

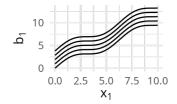
third column with remaining width

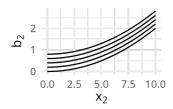
### TWOBYTWO 2×2 LAYOUT / QUADRANTS

Use <page-header> twobytwo{top left}{top right}{bottom left}{bottom right} for horizontally aligned quadrants

- Example top left...
- ...quadrant content
- Next to a figure

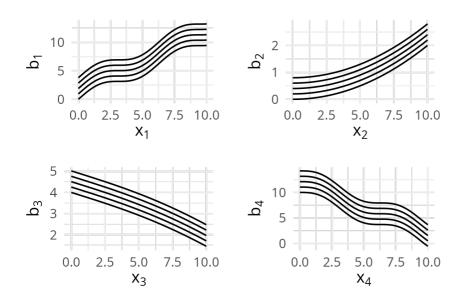
- Bottom left...
- ...quadrant content







### 2×2 LAYOUT: ALL IMAGES





### **ITEMIZE WRAPPERS**

Presets fro itemize with different vertical spacings (itemsep). The default value for itemsep is apparently 2pt. Use \the \itemsep to find out the current value.



- Default itemize
- itemsep is unmodified
- Another thing
- Words
- A fourth thing to show
- Just filling space here
- Hello there

Uses environment

itemizeS

- itemsep is: -2.0pt
- Another thing
- Words
- A fourth thing to show
- Just filling space here
- Hello there

### ITEMIZEM AND ITEMIZEL

- Default itemize with itemizeM
- itemsep is unmodified
- Another thing
- Words
- A fourth thing to show
- Just filling space here
- Hello there

- Uses environment itemizel.
- itemsep is: 15.0pt
- Another thing
- Words
- A fourth thing to show
- Just filling space here
- Hello there



### ITEMIZEF FOR VERTICAL FILLING

• Uses environment itemizeF



• itemsep is: 10.07397pt plus 1.0fill

Automatically uses all vertical space

Depends on containing environment though!

### ITEMIZE SPACING AND FONT SIZE CONTROL

#### itemizeS with small text

- Small font + compact spacing
- Use for detailed lists
- When every line matters

### itemizeL with large text:

- Large font + wide spacing
- Makes content stand out
- Ideal for takeaways



#### itemizeM with default text:

- Default sizing and spacing works best for most content
- Provides good readability and balanced slide appearance

#### itemizeM with footnotesize text:

- Default sizing and spacing works best for most content
- Provides good readability and balanced slide appearance

### REFERENCE BUTTONS Author 2025

- Use \furtherreading with citation key:
  - Example: → Author 2025
  - Basically same as old citelink / citebutton
- Use \sourceref with URL:
  - Direct URL: 
     Click for source
  - URL with www: Click for source
- Or use \sourceref with citation key:
  - Example: Click for source
  - Another example: Click for source
  - Uses the url field in bib file for link:

### The buttons have different background colors:

- Light blue background for further reading
- Light orange/peach background for source references



## IMAGE TAKING THE FULL SLIDE WIDTH





## IMAGE USING HALF THE AVAILABLE WIDTH





# CENTERED IMAGE USING HALF THE AVAILABLE WIDTH





# FULL WIDTH CENTERED IMAGE WITH CITEKEY ATTRIBUTION





# **IMAGES ATTRIBUTION CAN BE URL OR CITEKEY**



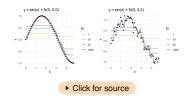
▶ Click for source



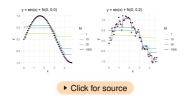


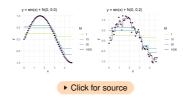


## **IMAGES WITH ALIGNMENT AND ATTRIBUTION**



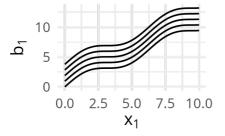






### **IMAGES WITHIN ITEMIZE**

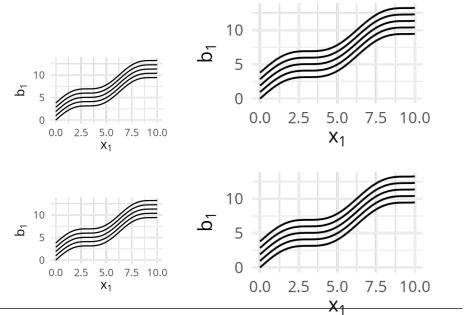
- Foo bar
- Plubber



• jfowiehfgnsdlkjnfg



# **IMAGES WITHIN SPLITV**





### **IMAGES WITHIN SPLITVCC**













### FRAMEI ENVIRONMENT

- This is a frame consisting only of an itemize environment
- Nothing else here, just itemize.
- No extra options yet for alignment or sizing in this case



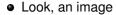
Look, an image



### FRAMEI ENVIRONMENT

× CO

- This is a frame consisting only of an itemize environment
- nested items





### FRAMEI ENVIRONMENT

× co × x

• This is a frame consisting only of an itemize environment



nested items

Look, an image

### **CUSTOMIZED FRAMEI ENVIRONMENT**

X O

- The framei environment supports key-value arguments
- Font size: fs=small (or footnotesize, large, etc.)
- Separation: sep=S (or M, L, F)
- This example uses framei [fs=small,sep=S]
- Perfect for overview slides or detailed lists
- Makes it easy to fit more content on a single slide
- Please don't overdo it

### **ANOTHER FRAMEI EXAMPLE**

× 0 0 × ×

- Larger text with wider spacing
- Passed directly to the framei environment
- Using [fs=large,sep=L]
- For emphasis and impact

### A FILLING FRAMEI EXAMPLE

Larger text with widest spacing



• Passed directly to the framei environment

• Using [fs=large,sep=F]

For the glory of hypnotoad

### INTEGRATION WITH FRAMEI ENVIRONMENT

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

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



▶ Click for source

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



# FRAMEI WITH NESTED ITEMIZE AND FONT SIZE CONTROL

× 0 0 × ×

- Item A
  - itemize inherits footnotesize
- Global item
  - itemizeM overrides with tiny fontsize
- Another global item
  - itemizeM inherits footnotesize
- Item B

### SPLITV INSIDE REGULAR ITEMIZE

- First regular bullet point
- Some more text in an item
- This appears beside the image
- No need for a nested itemize environment



× × ×

- Assume data is separable
- We can continue the list afterward
- Another example with top alignment:
- Top-aligned content
- In a normal itemize environment
- Final regular bullet point



# FRAME2 LIKE FRAME BUT WITH FONT SIZE PARAMETER



This entire frame uses the small font size.

- this regular itemize list uses the small font size
- you can nest things in here as needed
- this itemizeM list overrides the font size
- if you use itemizeM etc. they just inehrit the font size as well

### FRAME2 WITH NESTED REGULAR ITEMIZES



- Item A
  - Subitem 1
- Item B

### **VERBATIM CONTENT**

- Verbatim does not work with framei or frame2
- But you can mix itemizeL etc and verbatim
- The important thing is to use "normal" frame environment with fragile, c

```
× 0 0
× × ×
```

```
#include<stdio.h>
int main() {
  printf("Hello World\n");
  return 0;
}
```