

**ACCU  
2021**  
VIRTUAL EVENT

**Bloomberg**  
Engineering

**undo**

 **mosaic**  
CONSULTANTS TO FINANCIAL SERVICES

# Drawing for IT Architects

**Filip Van Laenen**





computas

While you're waiting:  
Be sure to have some paper and pencils ready!

**Drawing for IT Architects**  
**ACCU 2021 — 9 March 2021**  
*Filip van Laenen*



computas

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**Drawing for IT Architects**  
**ACCU 2021 — 9 March 2021**  
*Filip van Laenen*

**If you're going to  
remember only one thing  
from this workshop...**

**Look at your drawings!**

**Exercise**



Exercise

**You have three  
seconds to...**



Exercise

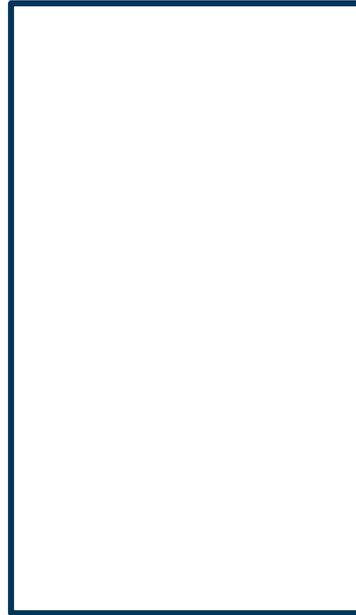
**Draw a rectangle!**



# The Solution



# Alternative Solution



# Alternative Solution



# Alternative Solution



# Ratios

1:1

Golden Ratio

$$\varphi = (1 + \sqrt{5}) / 2 \approx 1.618$$

2:3

1:2

# “The” Solution



**Exercise**



Exercise

**Draw a line!**



# “The” Solution

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# Alternative Solution



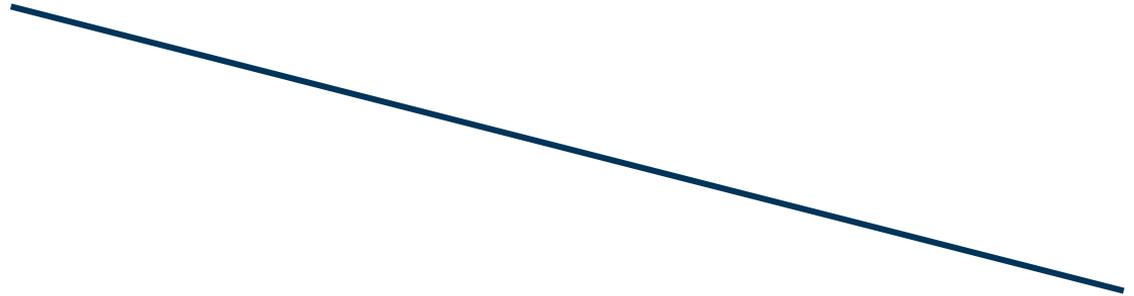
# Alternative Solution

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# Alternative Solution

—

# Alternative Solution



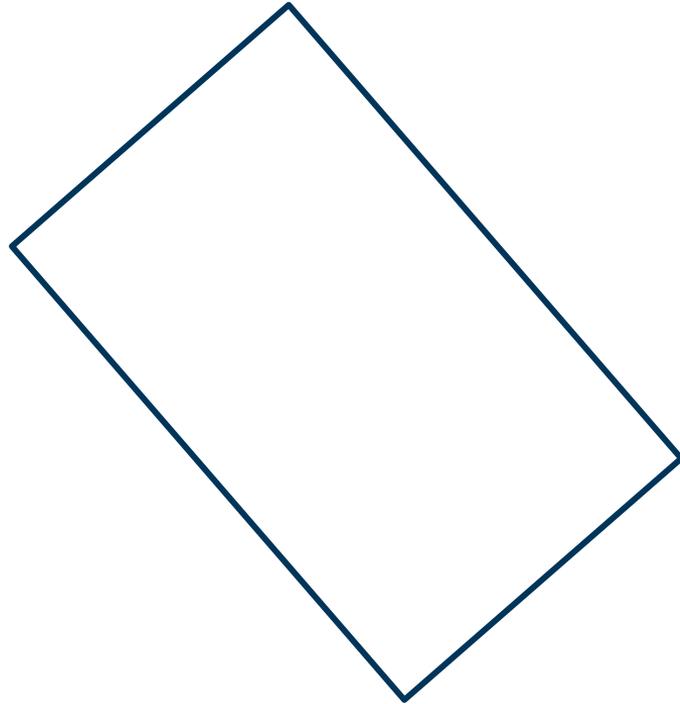
# Alternative Solution for the Rectangle



# Alternative Solution



# Alternative Solution



# “The” Solution



# Alternative Solution



# Alternative Solution



# Stroke Widths



# “The” Solution



# Exercise

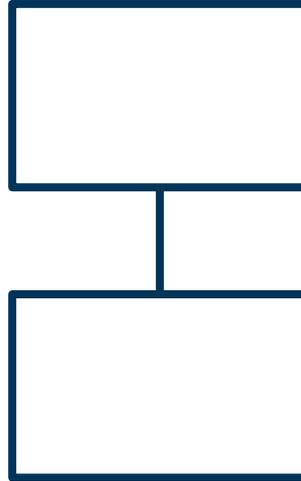


Exercise

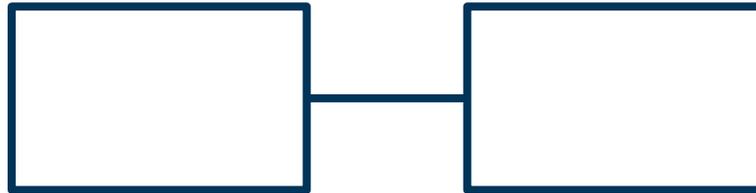
# Two connected rectangles



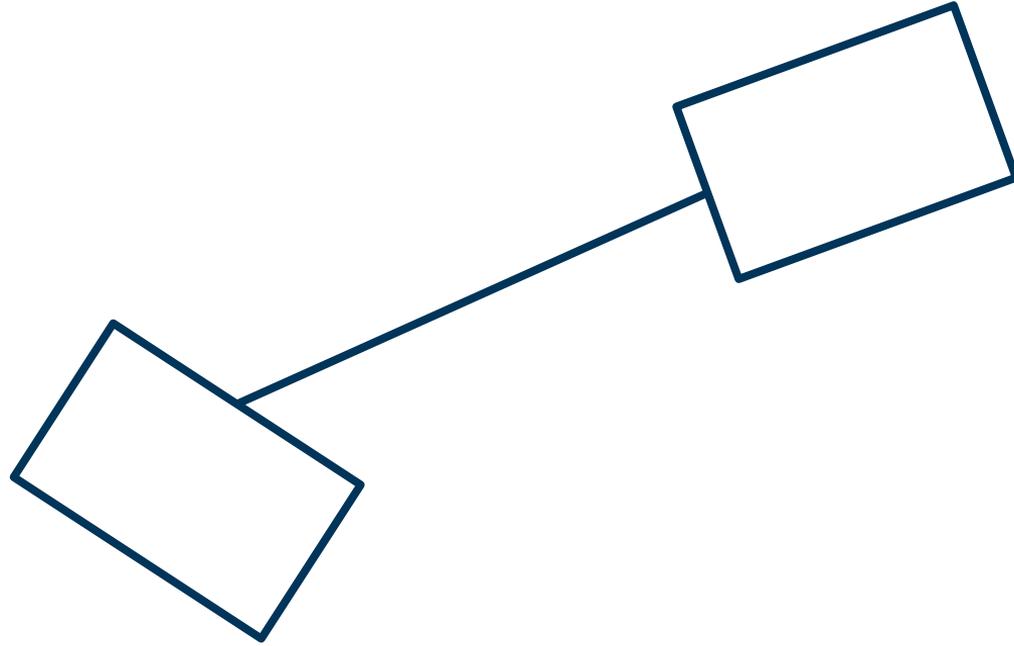
# “The” Solution



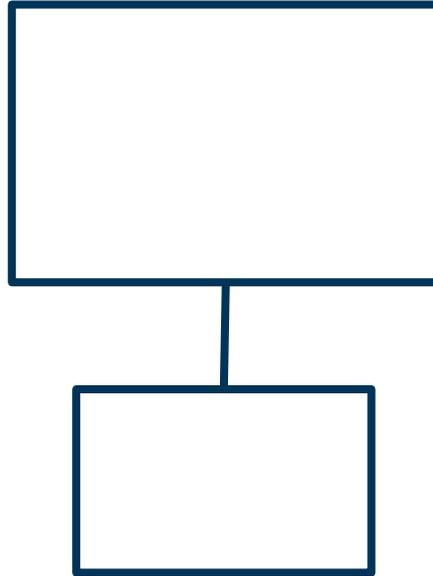
# Alternative Solution



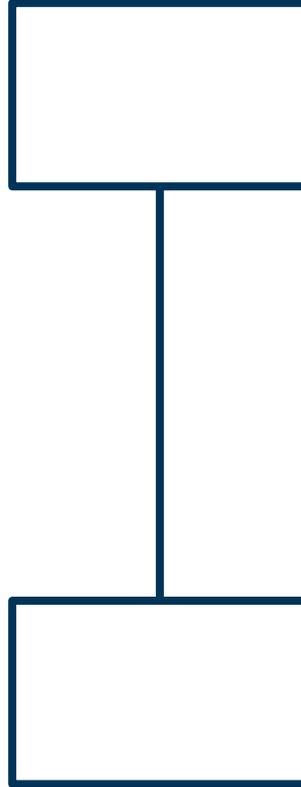
# Alternative Solution



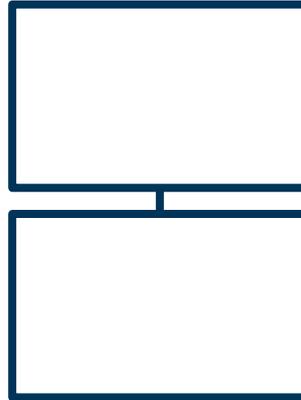
# Alternative Solution



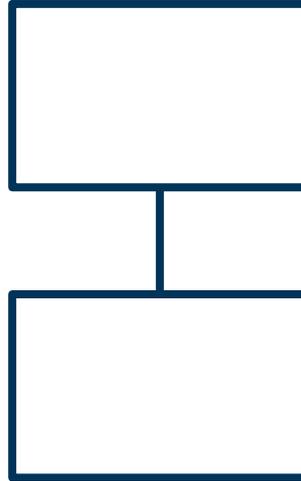
# Alternative Solution



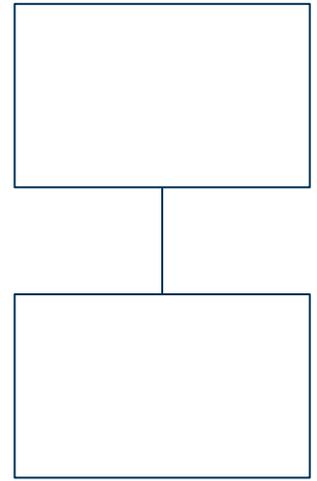
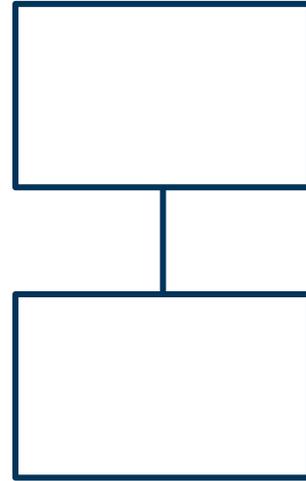
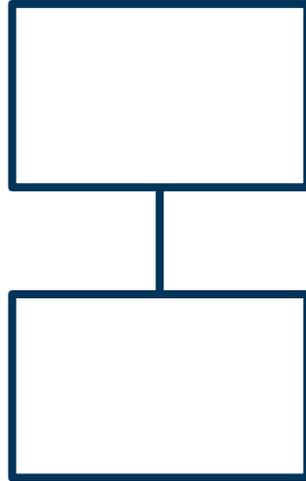
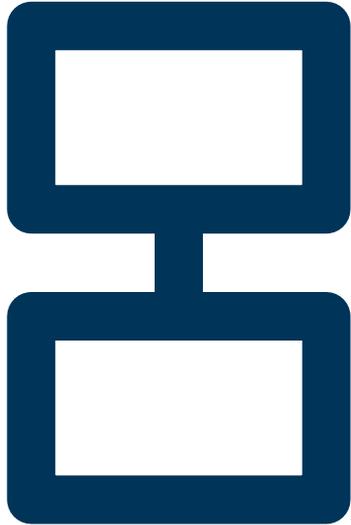
# Alternative Solution



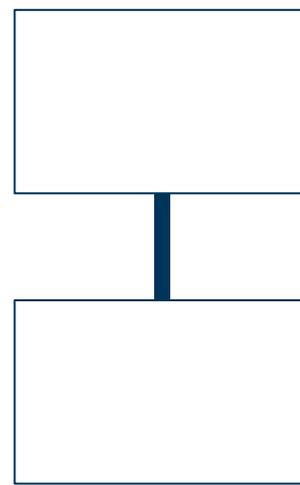
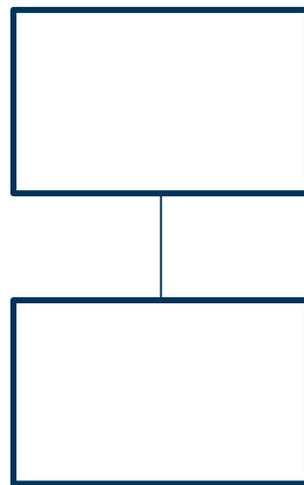
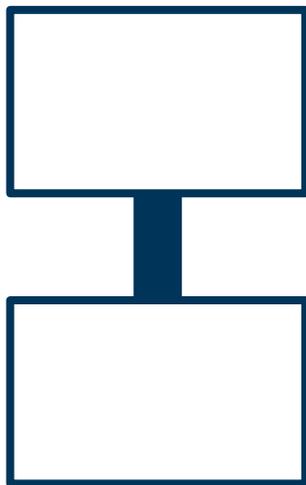
# “The” Solution



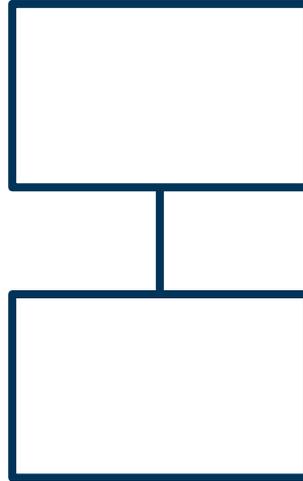
# Stroke Width



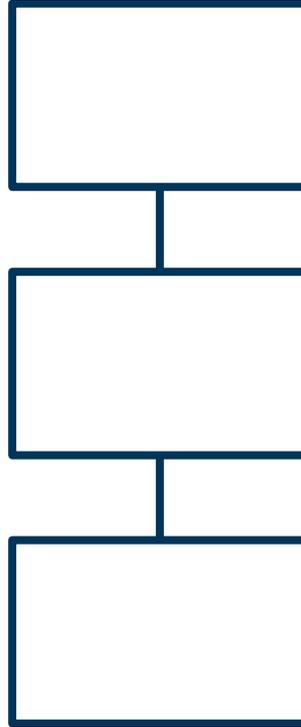
# Stroke Width Consistency



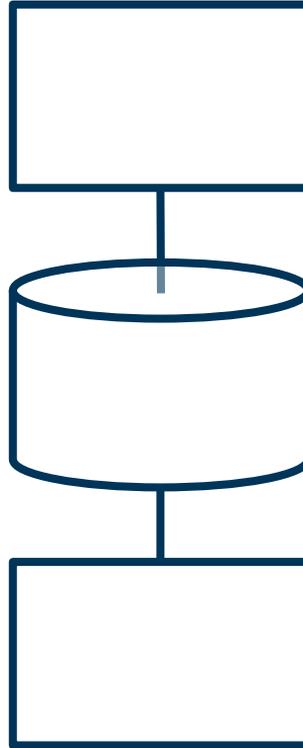
# “The” Solution



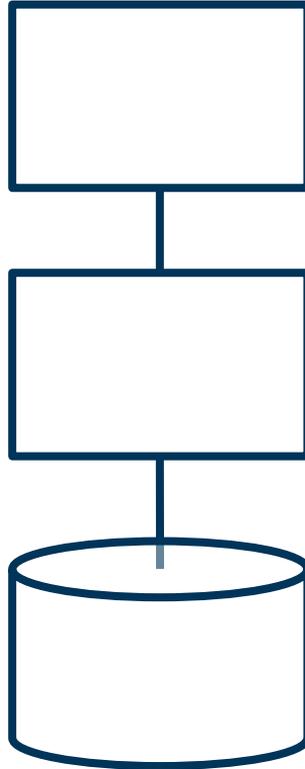
# What's This?



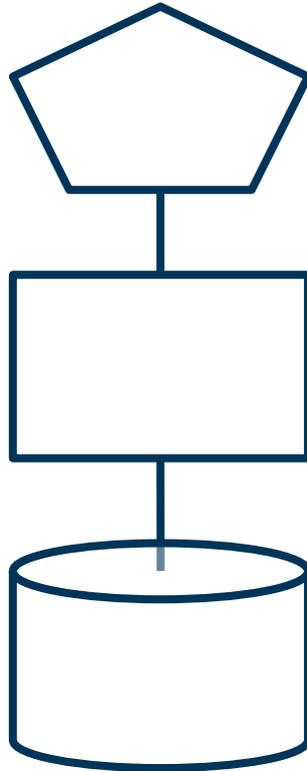
# What's This?



# What's This?



# What's This?



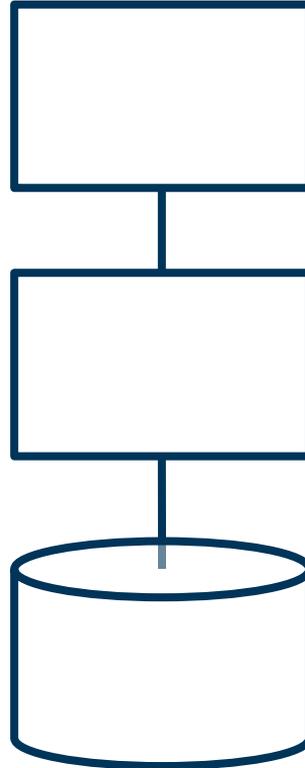
# What's This?



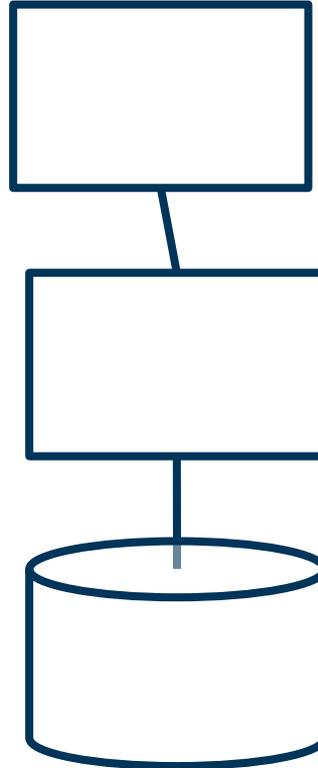
# What's This?



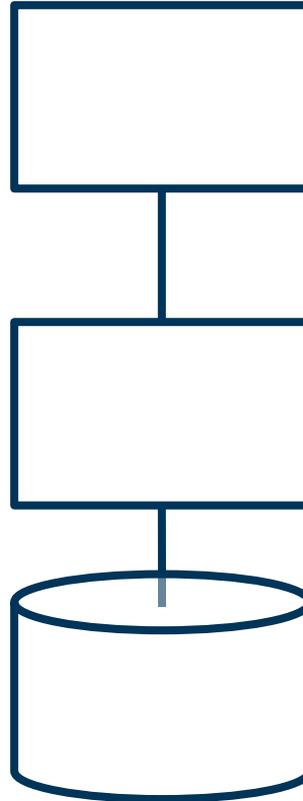
# “The” Solution



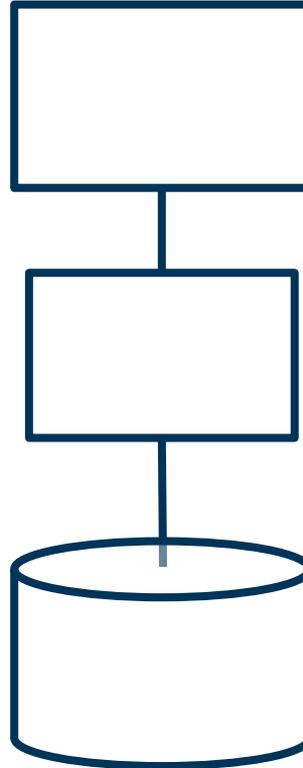
# Alternative Solution



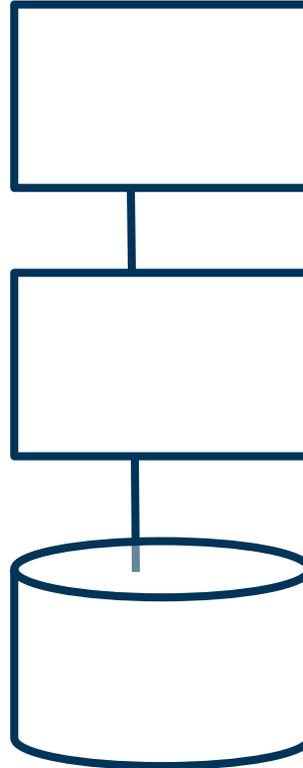
# Alternative Solution



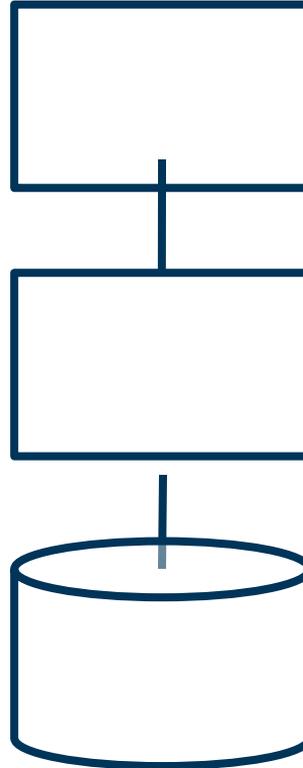
# Alternative Solution



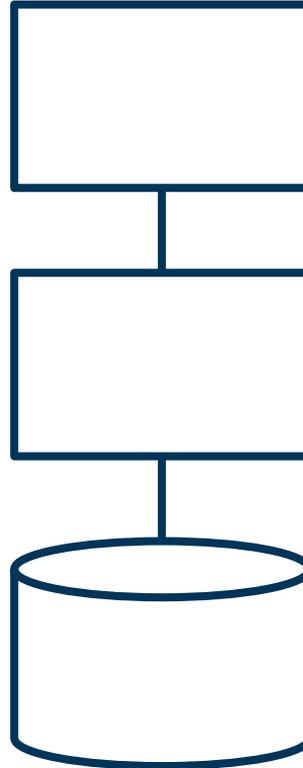
# Alternative Solution



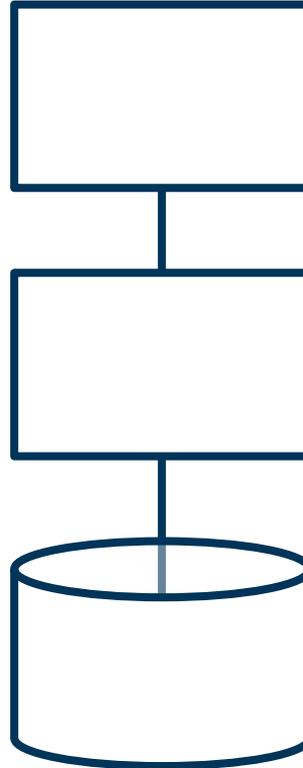
# Alternative Solution



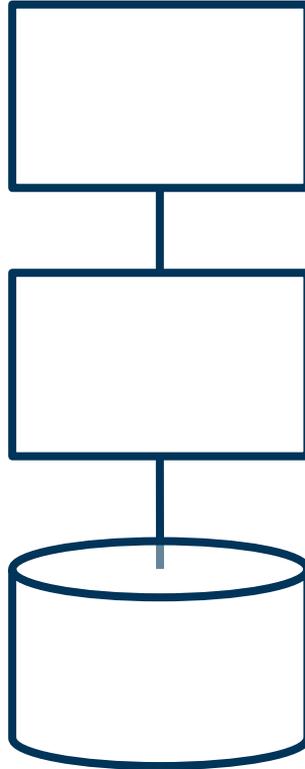
# Alternative Solution



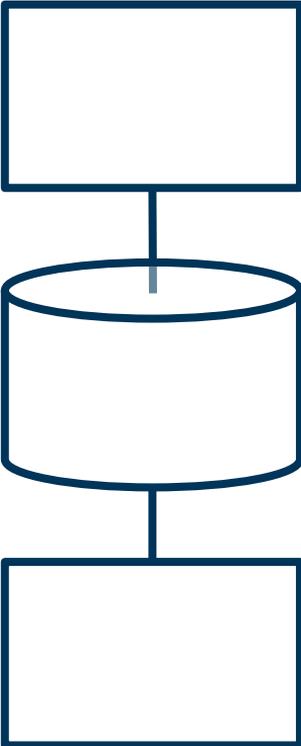
# Alternative Solution



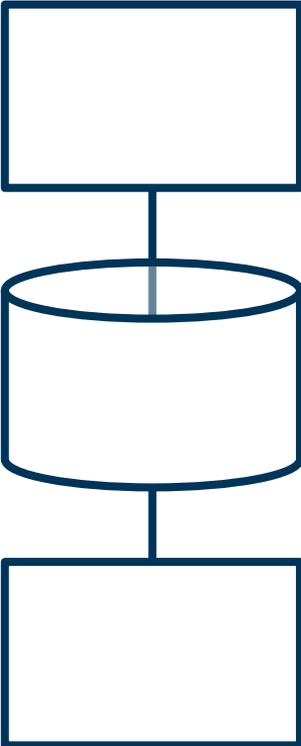
# “The” Solution



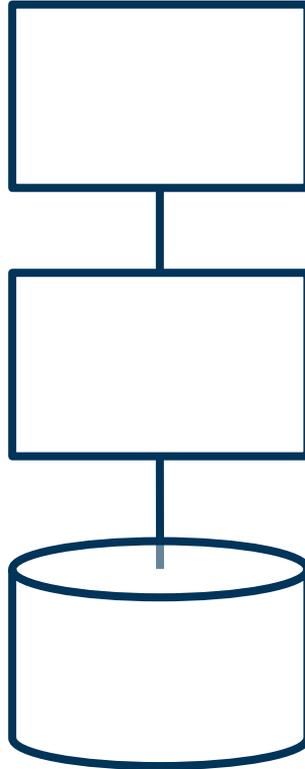
# Remember This?



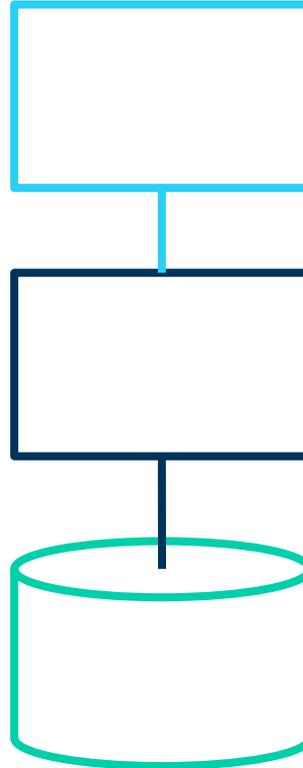
# Remember This?



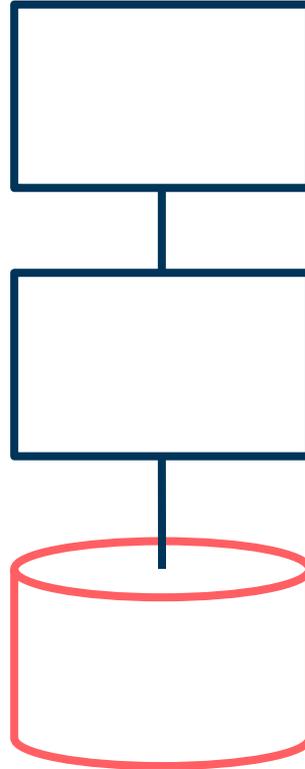
# “The” Solution



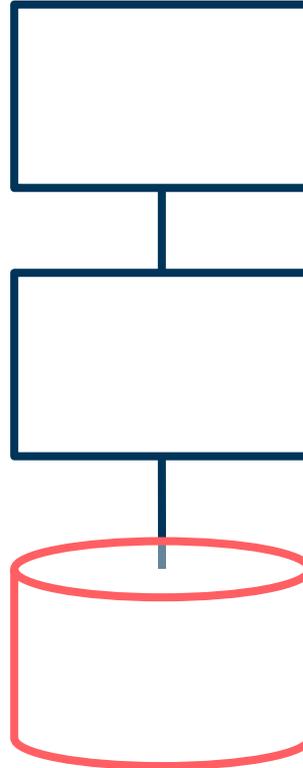
# Alternative Solution



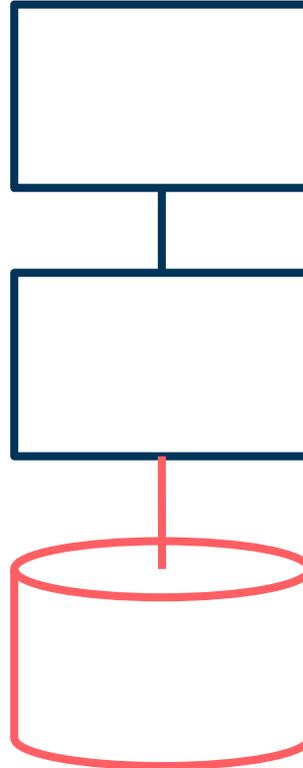
# What's This?



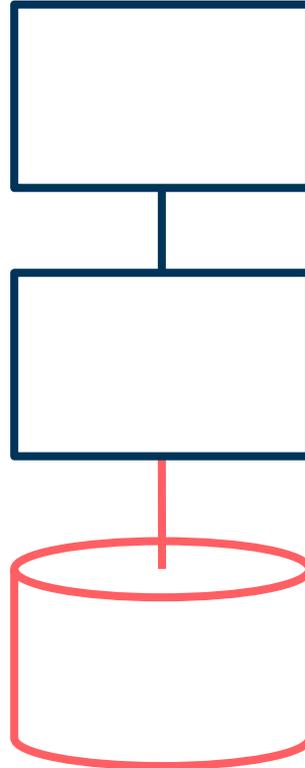
# Alternative Solution



# Alternative Solution



# “The” Solution



HOT

DANGER

IGNORE

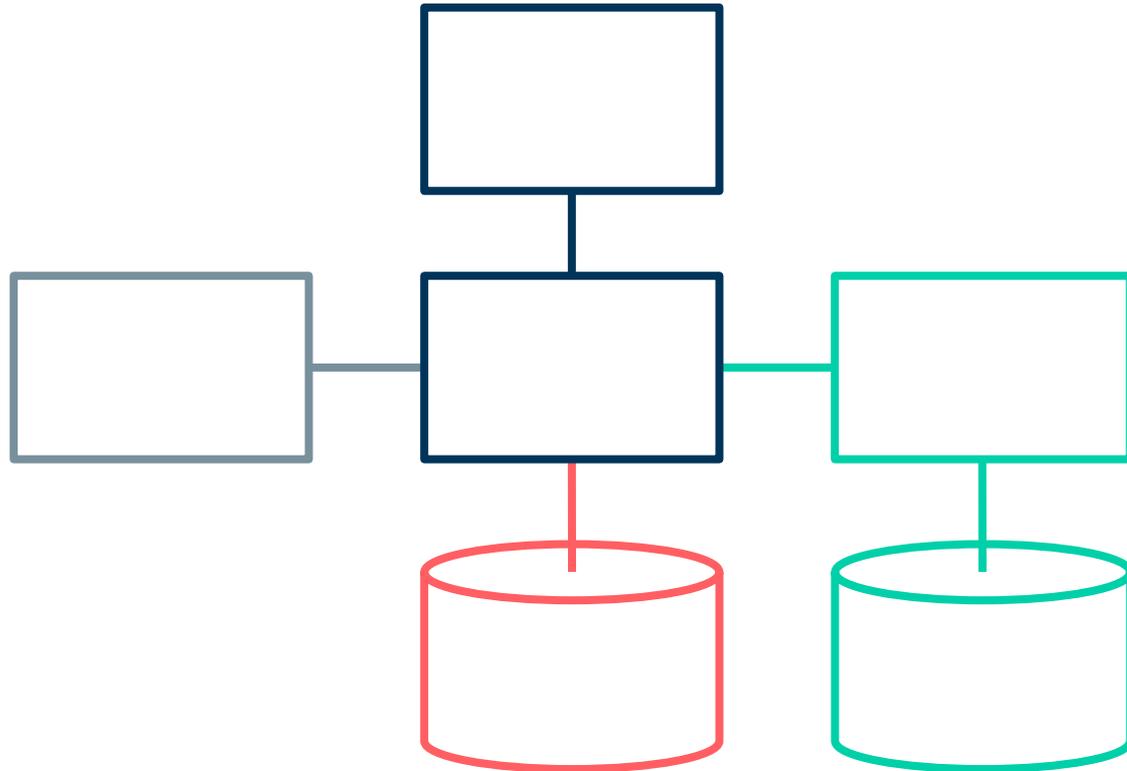
**DEFAULT**

**NEW**

**ATTENTION**

**IGNORE**

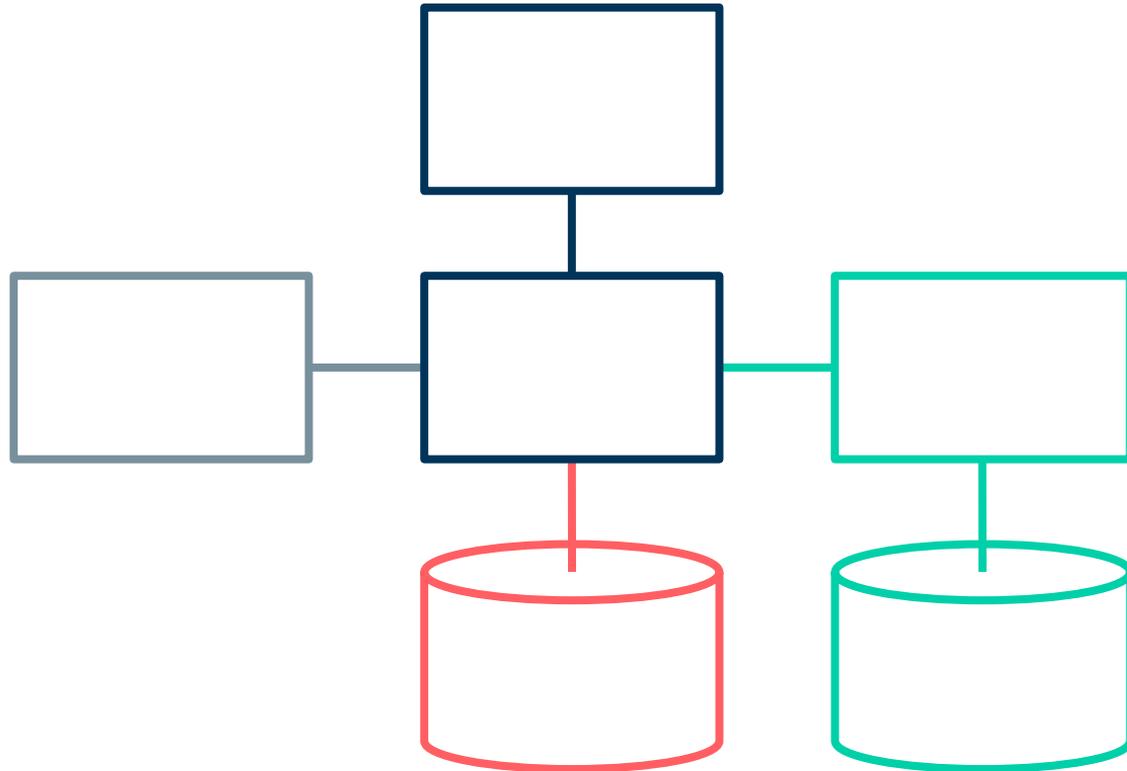
# “The” Solution



# Use of Colours

- Your viewers won't be able to ignore the colours you use
- Not all your viewers will be able to see the colours you use
  
- Use colours to *support* your point

# Still Room for Improvement...



**Exercise**

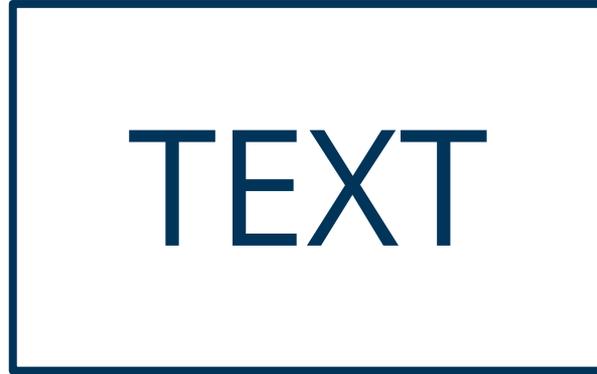


Exercise

**Draw a rectangle with  
the word "Text" in it**



# “The” Solution



# “The” Solution



# Alternative Solution

TEXT

# Alternative Solution

Text

# Alternative Solution

*Text*

# Alternative Solution

Text

# Alternative Solution

*Text*

# “The” Solution

Lorem Ipsum

# Alternative Solution

Lorem  
Ipsum

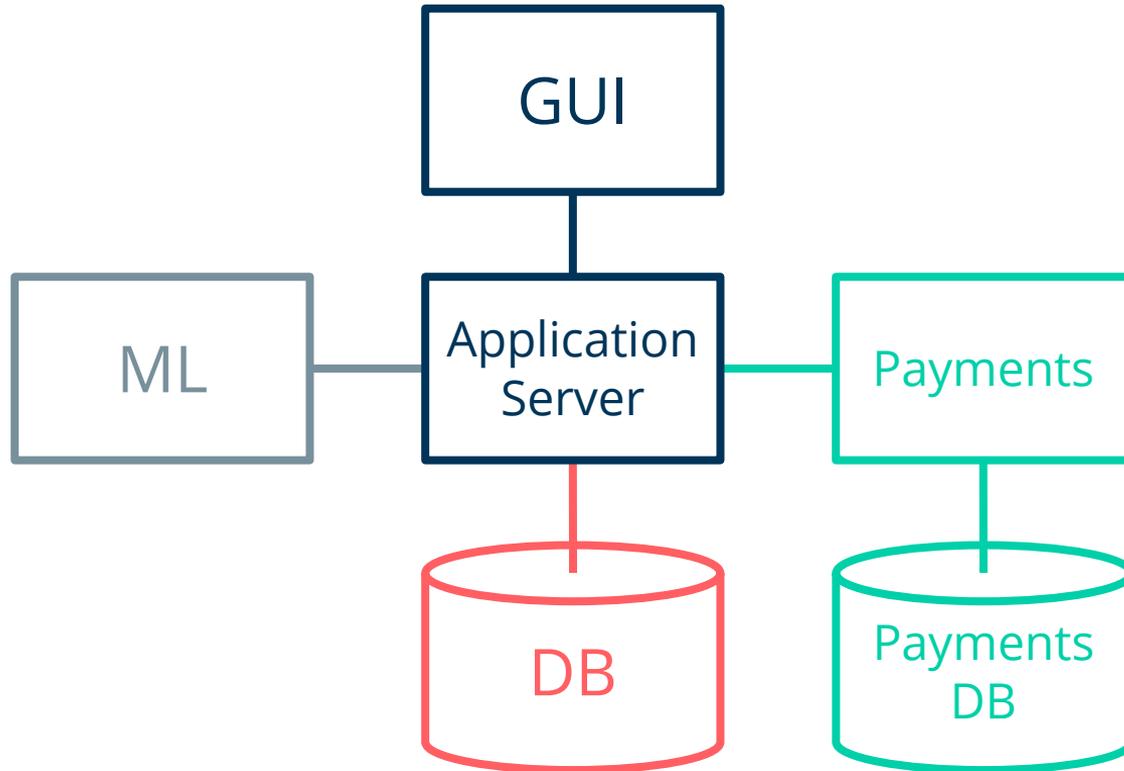
# Alternative Solution

Lorem  
Ipsum

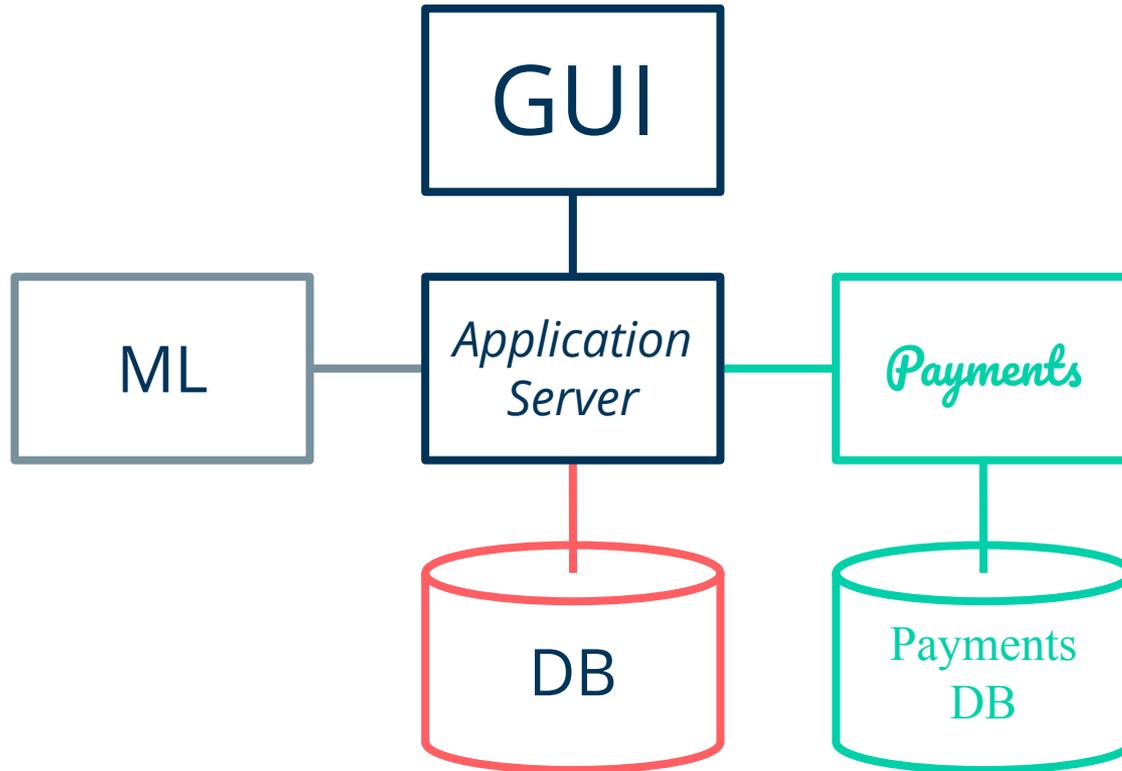
# “The” Solution

Lorem Ipsum

# “The” Solution



# Alternative Solution



**Exercise**

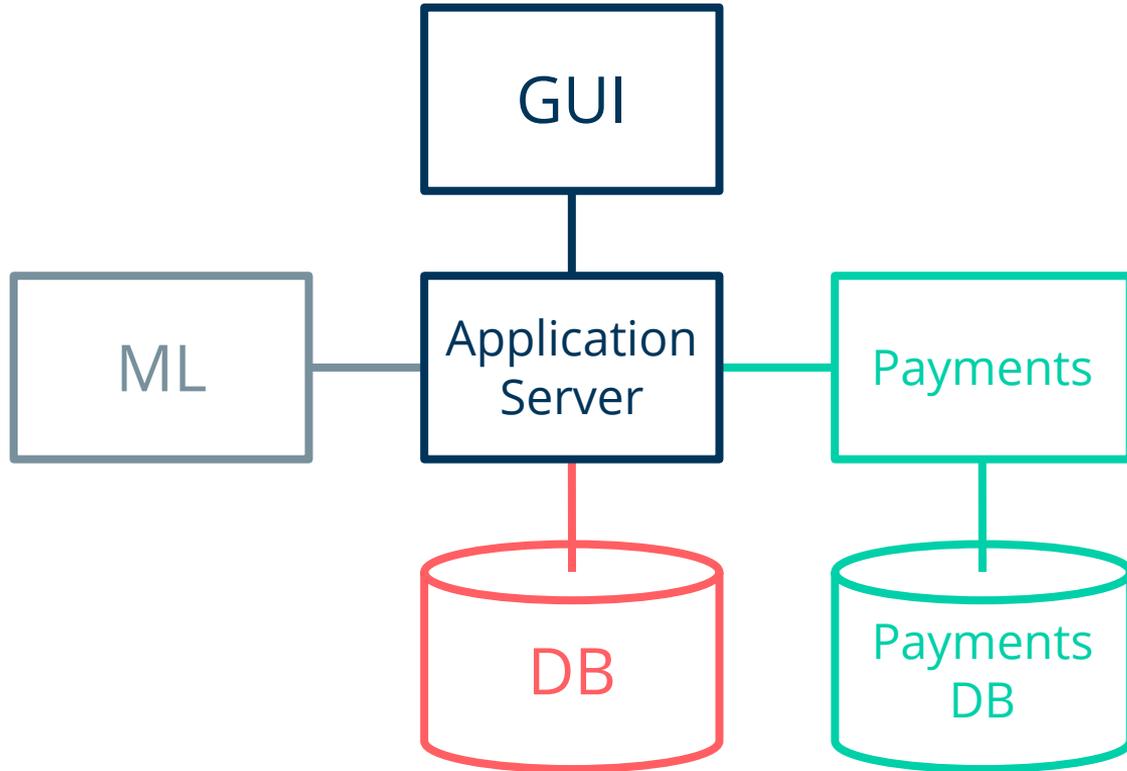


Exercise

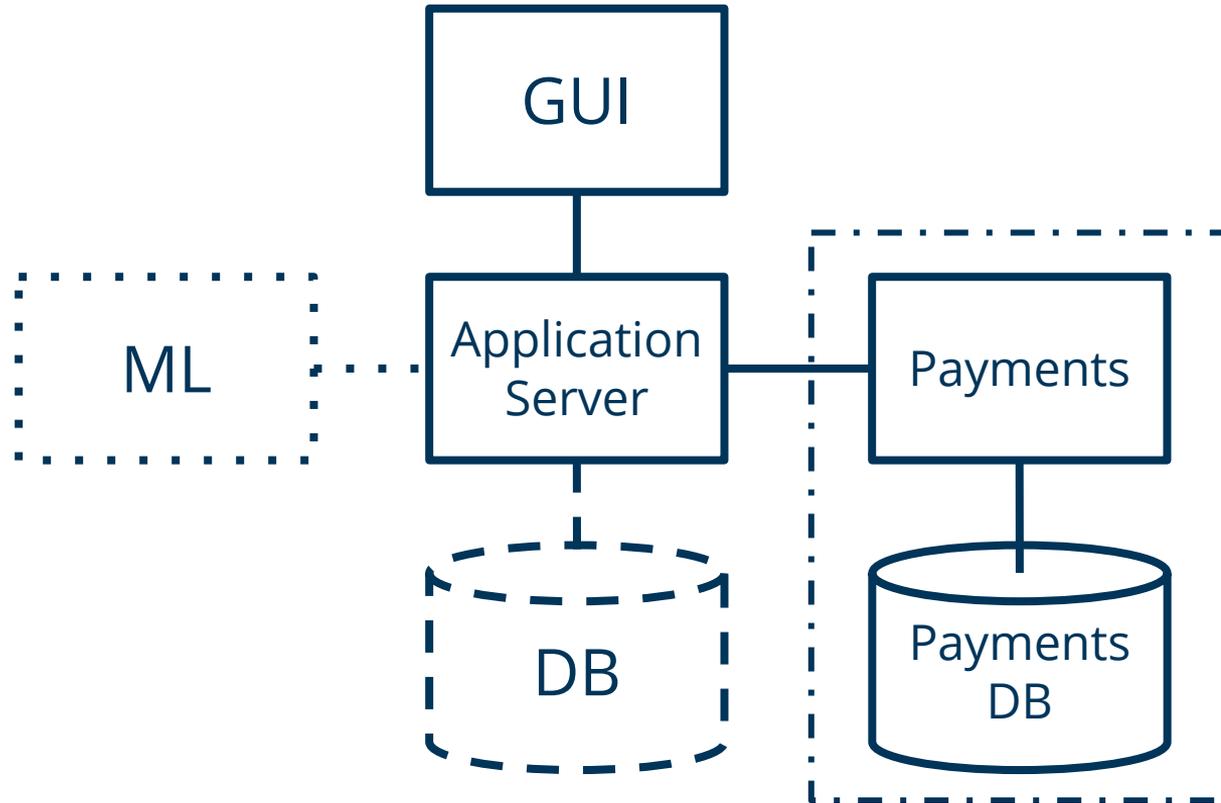
**Same semantics,  
but only one colour**



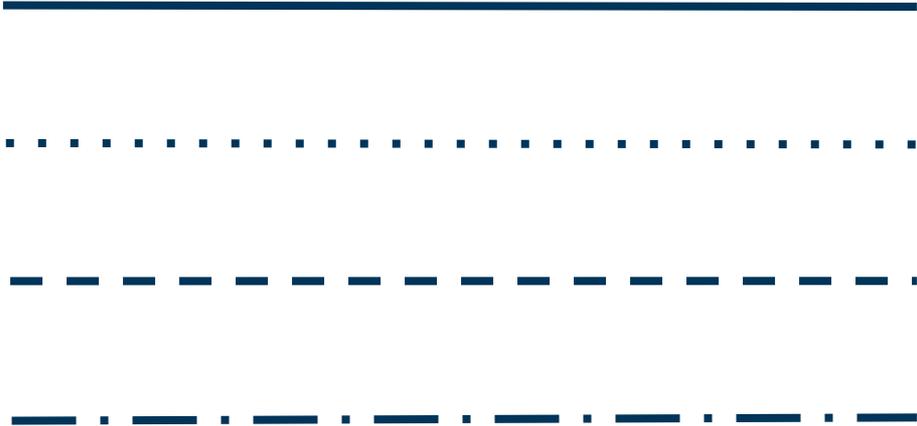
# Redraw Using Only One Colour!



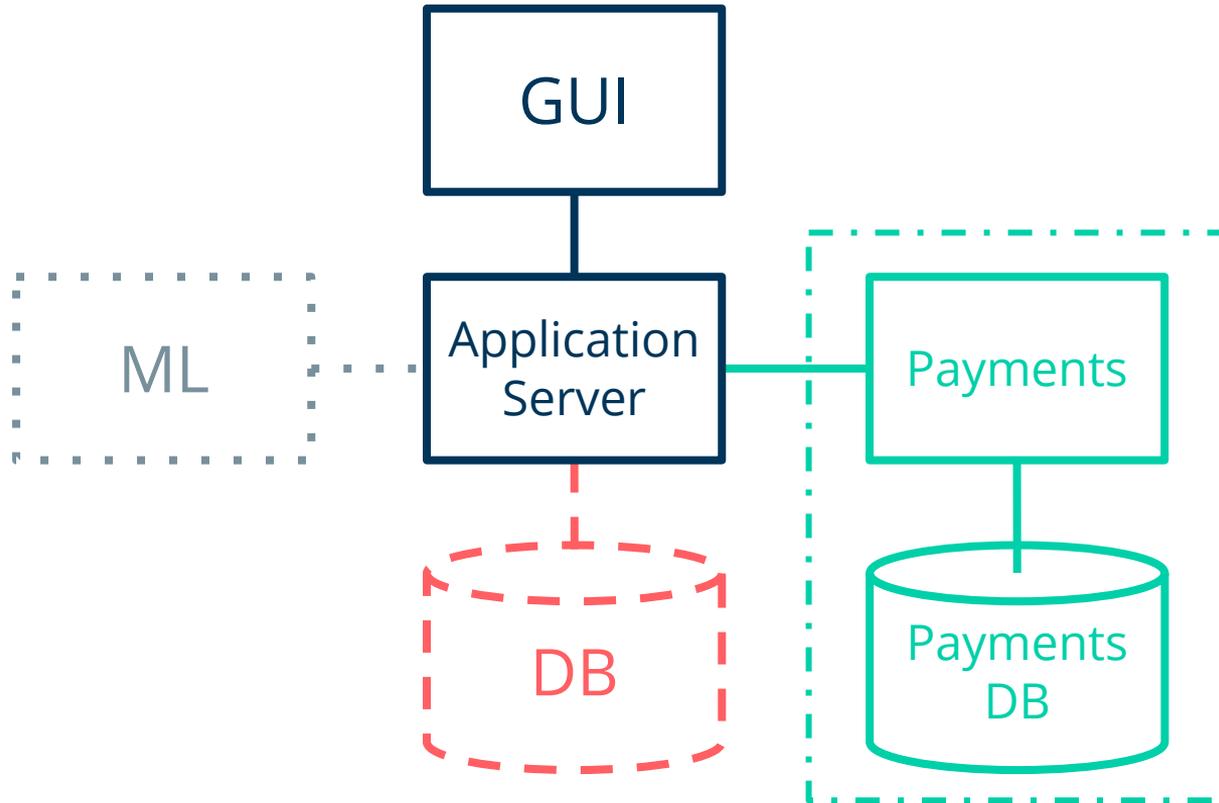
# A Possible Solution



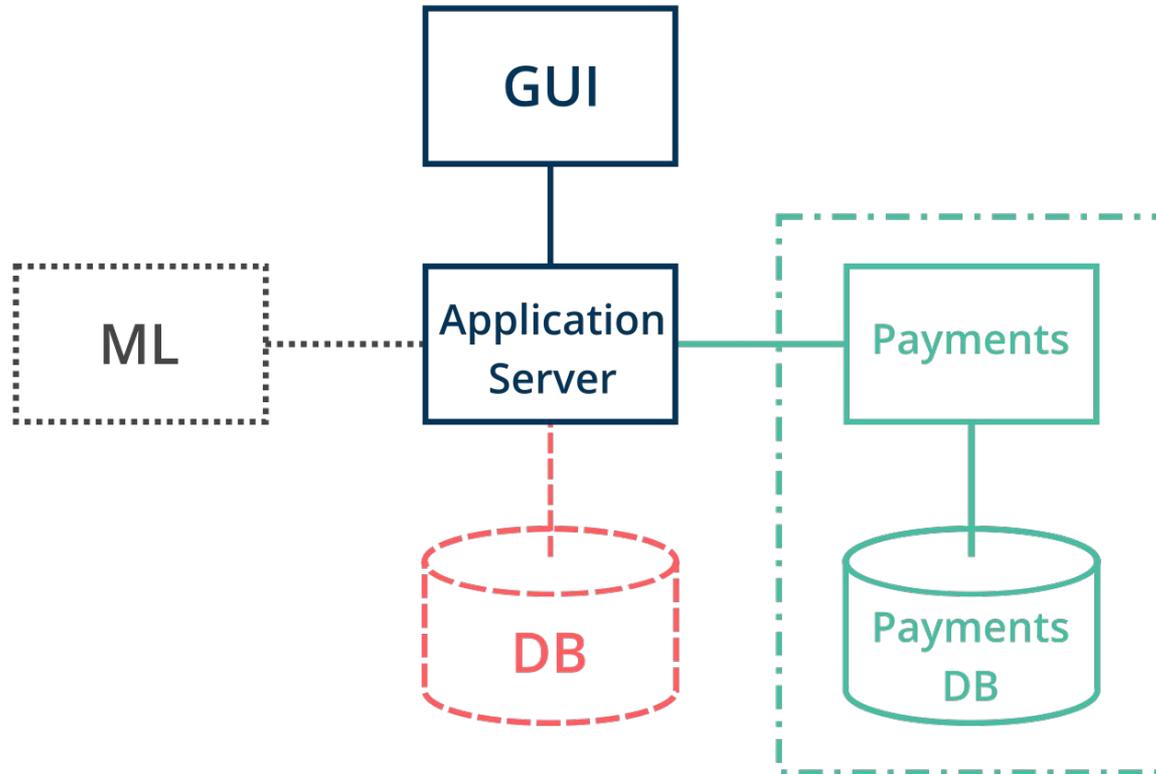
# Line Styles



# “The” Solution



# A Slightly Better Solution



# Inkscape



INKSCAPE  
*Draw Freely.*

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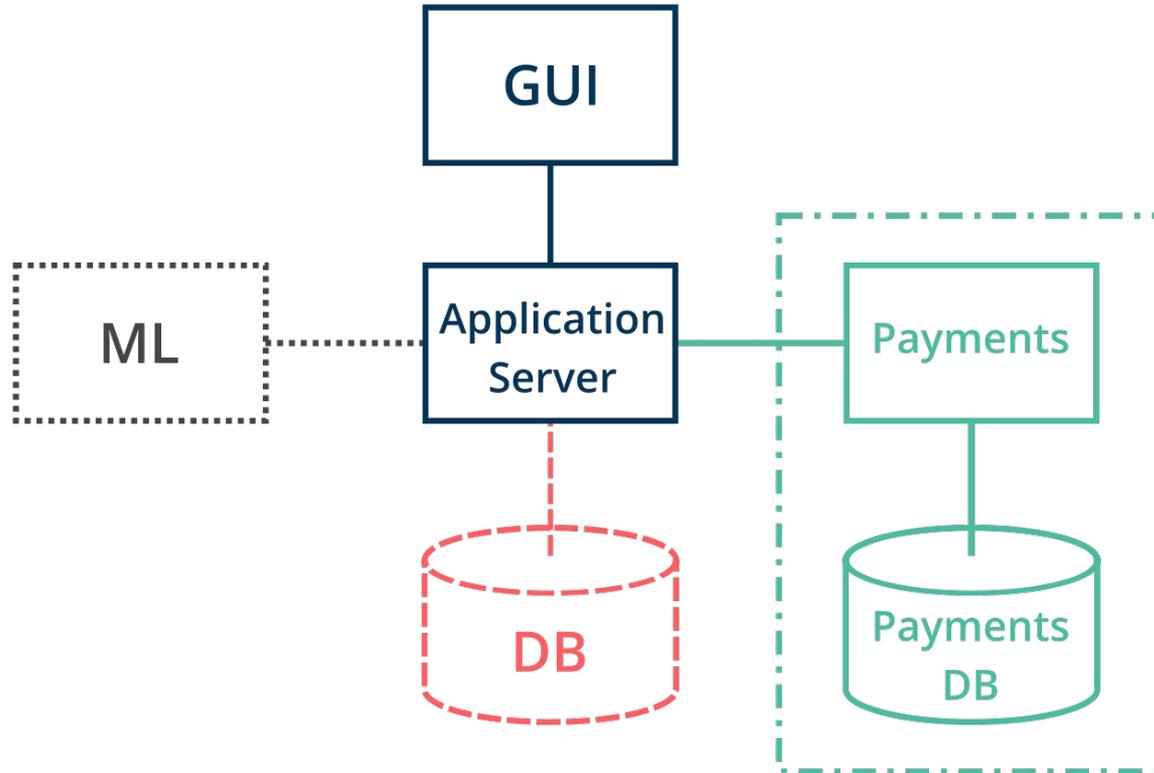
[Home](#) » [About](#) » [Features](#)

## Features of Inkscape

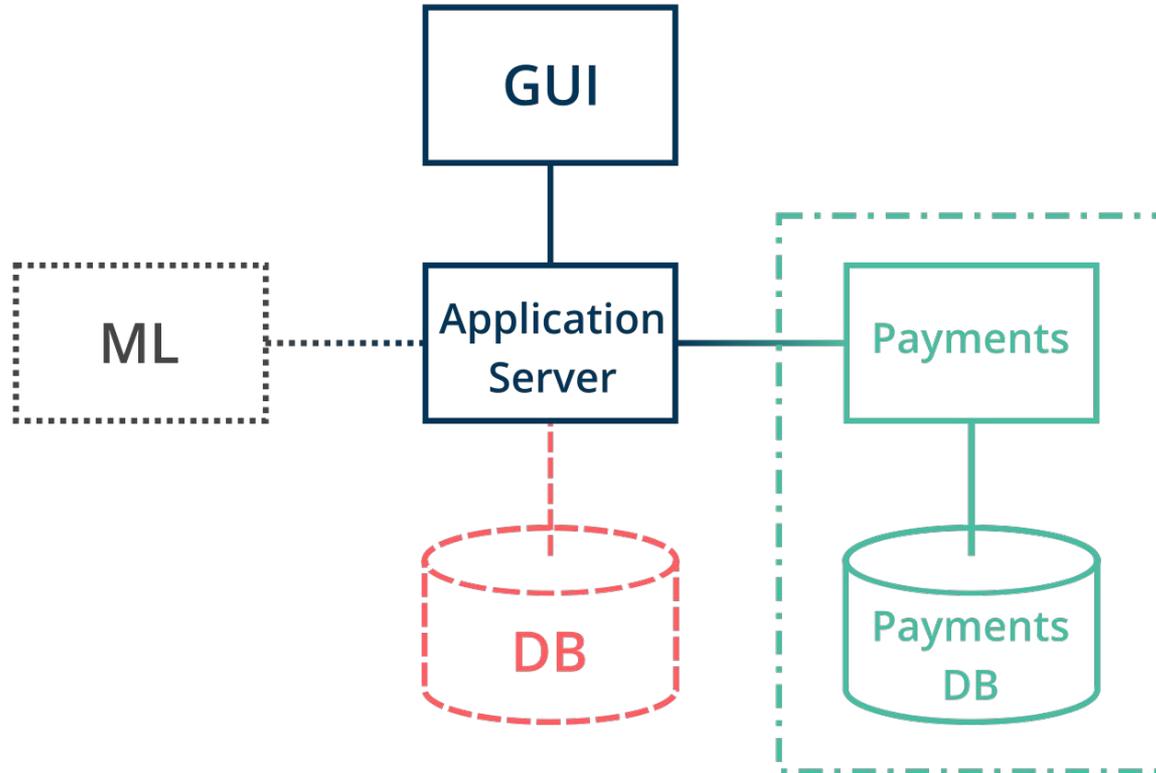
### Object creation

- Drawing: pencil tool (freehand drawing with simple paths), pen tool (creating Bézier curves and straight lines), calligraphy tool (freehand drawing using filled paths representing calligraphic strokes)
- Shape tools: rectangles (may have rounded corners), ellipses (includes circles, arcs, segments), stars/polygons (can be rounded and/or randomized), spirals
- Text tool (multi-line text, full on-canvas editing)
- Embedded bitmaps (with a command to create and embed bitmaps of selected objects)
- Clones ("live" linked copies of objects), including a tool to create patterns and arrangements of clones

# A Slightly Better Solution



# An Even Better Solution



**Question**





**Who's Using a Red Pen  
to Take Notes?**



**Who's Using a Black  
Pen to Take Notes?**

A person wearing a VR headset and headphones, looking upwards, with a teal overlay. The text is overlaid on the left side of the image.

**Who's Using a Green  
Pen to Take Notes?**

**Anyone Using a  
Yellow or  
Orange Pen?**



# Palettes

- For professional work:
  - Ask the marketing department for a palette
  - Pick the colors from your web page
- In your free time:
  - Create your own palette(s)

# Basic Rules for Palettes

- Something blue
  - Green? Purple??
- Another blue/green/purple
- Yellow/orange/red
  - To draw attention
- Grey/purple
  - Peripheral elements

# colourlovers.com/palettes

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NEW MOST LOVED MOST COMMENTS MOST FAVORITES

## Browse Palettes

|  |                                  |          |           |       |       |
|--|----------------------------------|----------|-----------|-------|-------|
|  | Chasing The Light by MistyAamen  | 0        | 0         | 1     | 1     |
|  |                                  | COMMENTS | FAVORITES | VIEW  | LOVE  |
|  | 2020 JP MillsC7 by JPTHisticreek | 0        | 0         | 1     | 0     |
|  |                                  | COMMENTS | FAVORITES | VIEW  | LOVES |
|  | 2020 JP MillsC6 by JPTHisticreek | 0        | 0         | 2     | 0     |
|  |                                  | COMMENTS | FAVORITES | VIEWS | LOVES |
|  | 2020 JP MillsC5 by JPTHisticreek | 0        | 0         | 1     | 0     |
|  |                                  | COMMENTS | FAVORITES | VIEW  | LOVES |

# Extract Color Palette from a Picture



0483AC

FFE68A

B9532D

26332C

829B4A

“draw me a line” by Gabriel Garcia Marengo on Flickr  
– <https://www.flickr.com/photos/gabrielgm/9473634297>

# Add Tints and Shades

- Tint: mix a color with white
- Tone: mix a color with gray
- Shade: mix a color with black

# Palette with Tints and Shades

|        |        |        |        |        |
|--------|--------|--------|--------|--------|
| BFEEDD | FFFAE7 | F4DBD2 | CFDBD5 | E7EDD9 |
| 7CDDFC | FFF5D1 | E9B7A5 | 9FB7AA | CFDBB3 |
| 3CCCFA | FFF0B9 | DE9478 | 6D937F | B6C88C |
| 05B4ED | FFEBA3 | D3704B | 496355 | 9DB666 |
| 0483AC | FFE68A | B9532D | 26332C | 829B4A |
| 036889 | FFD63D | 944224 | 1E2823 | 677B3B |
| 024F68 | ECBA00 | 6F321B | 161E1A | 4D5C2C |
| 023444 | 9E7C00 | 4A2112 | 0F1512 | 343E1E |
| 011B23 | 4E3D00 | 251109 | 080A09 | 1A1F0F |

# Palette with Tints and Shades

|        |        |        |        |        |
|--------|--------|--------|--------|--------|
| BFEEDD | FFFAE7 | F4DBD2 | CFDBD5 | E7EDD9 |
| 7CDDFC | FFF5D1 | E9B7A5 | 9FB7AA | CFDBB3 |
| 3CCCFA | FFF0B9 | DE9478 | 6D937F | B6C88C |
| 05B4ED | FFEBA3 | D3704B | 496355 | 9DB666 |
| 0483AC | FFE68A | B9532D | 26332C | 829B4A |
| 036889 | FFD63D | 944224 | 1E2823 | 677B3B |
| 024F68 | ECBA00 | 6F321B | 161E1A | 4D5C2C |
| 023444 | 9E7C00 | 4A2112 | 0F1512 | 343E1E |
| 011B23 | 4E3D00 | 251109 | 080A09 | 1A1F0F |

**Exercise**



# Fill a Rectangle with a Pattern



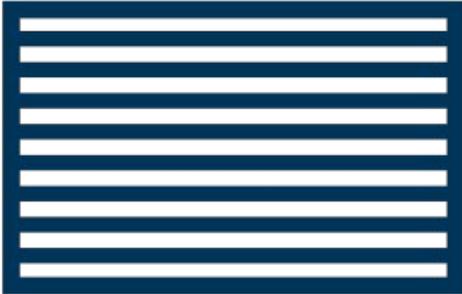
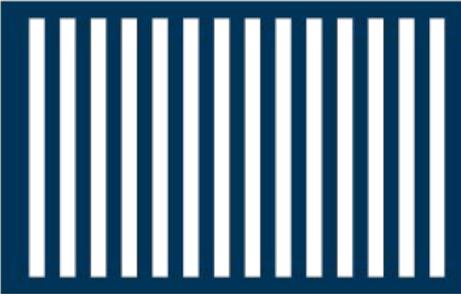
# A Solution



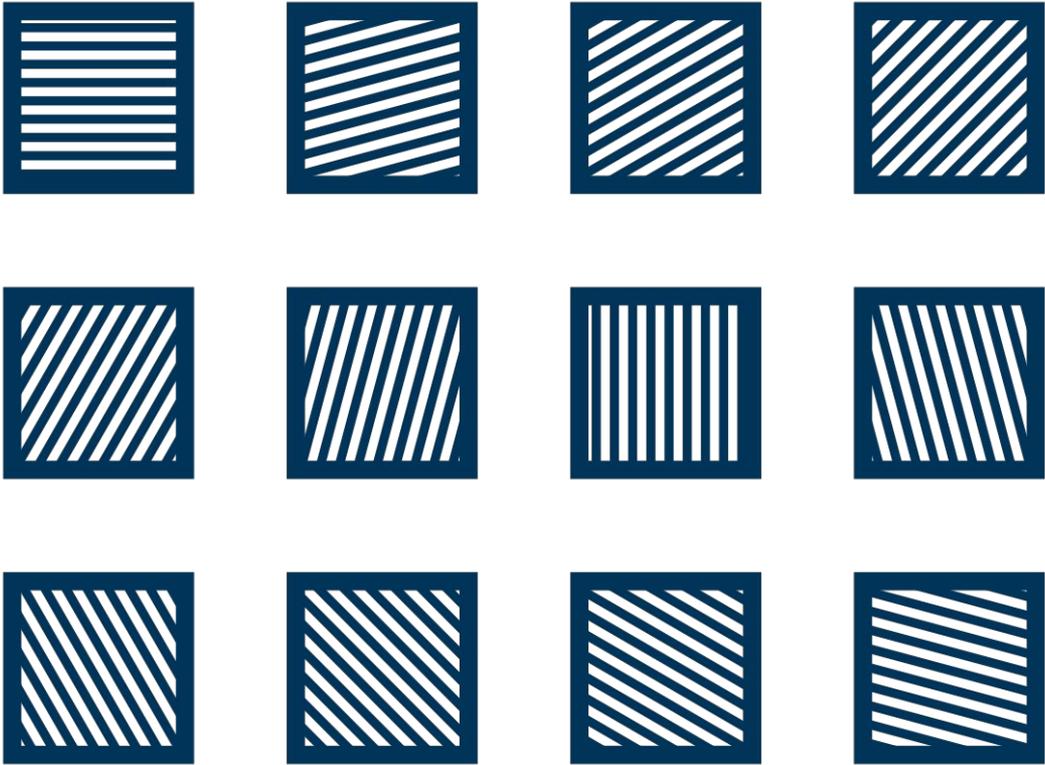
# Another Solution



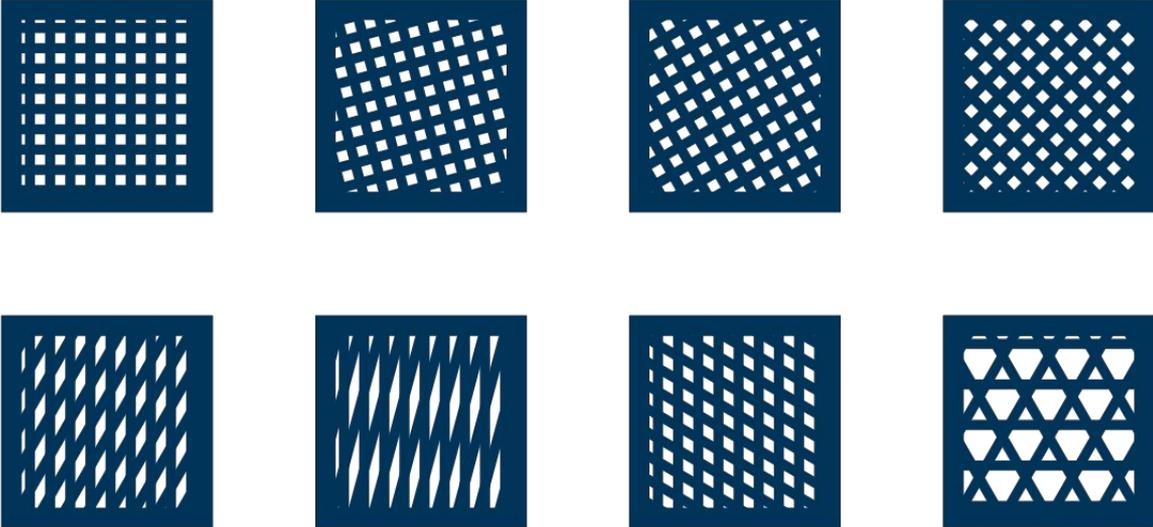
# More Solutions



# More Solutions



# More Solutions



# More Solutions



**1:5**

**1:4**

**1:3**

**1:2**

**1:1**

**2:1**

**3:1**

**4:1**

**5:1**



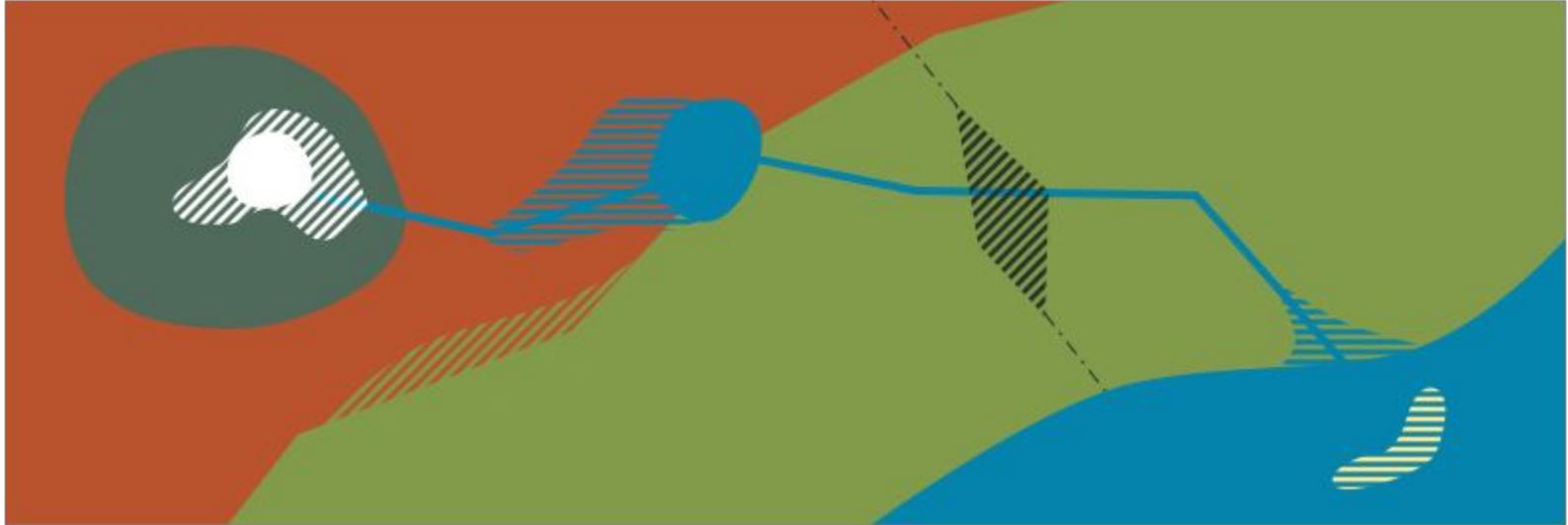
# Convention from Heraldry



# Semantics



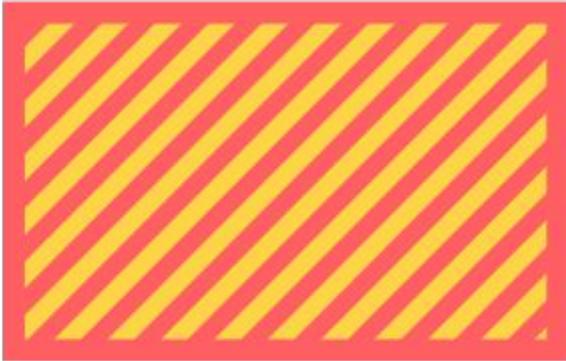
# Topographic Semantics



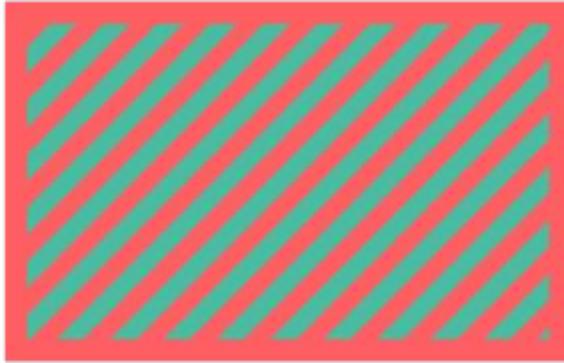
# Color Combinations



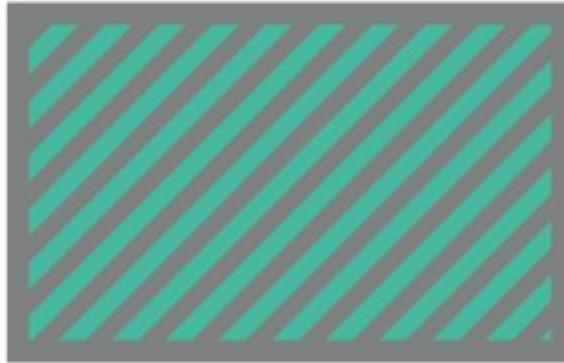
# Powerful Color Combinations



# Dangerous Color Combination



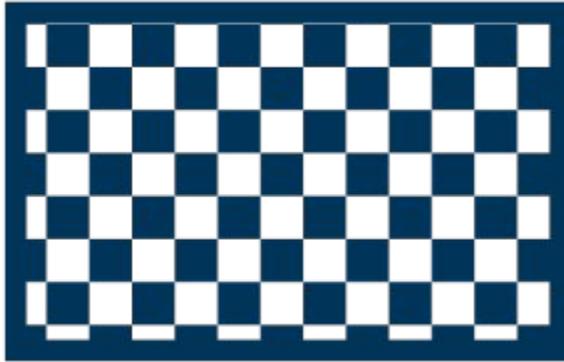
# Unfortunate Color Combination



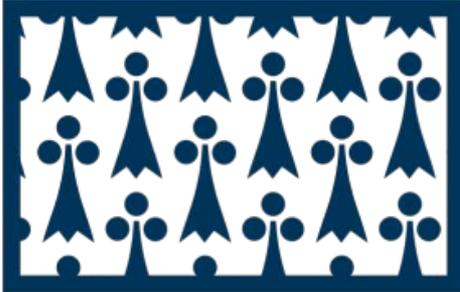
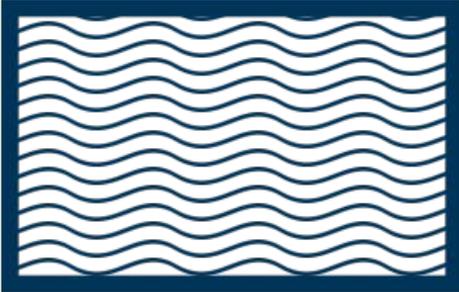
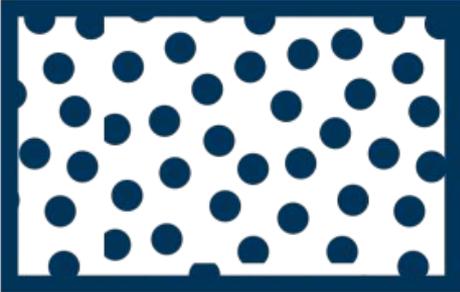
# Stroke Color



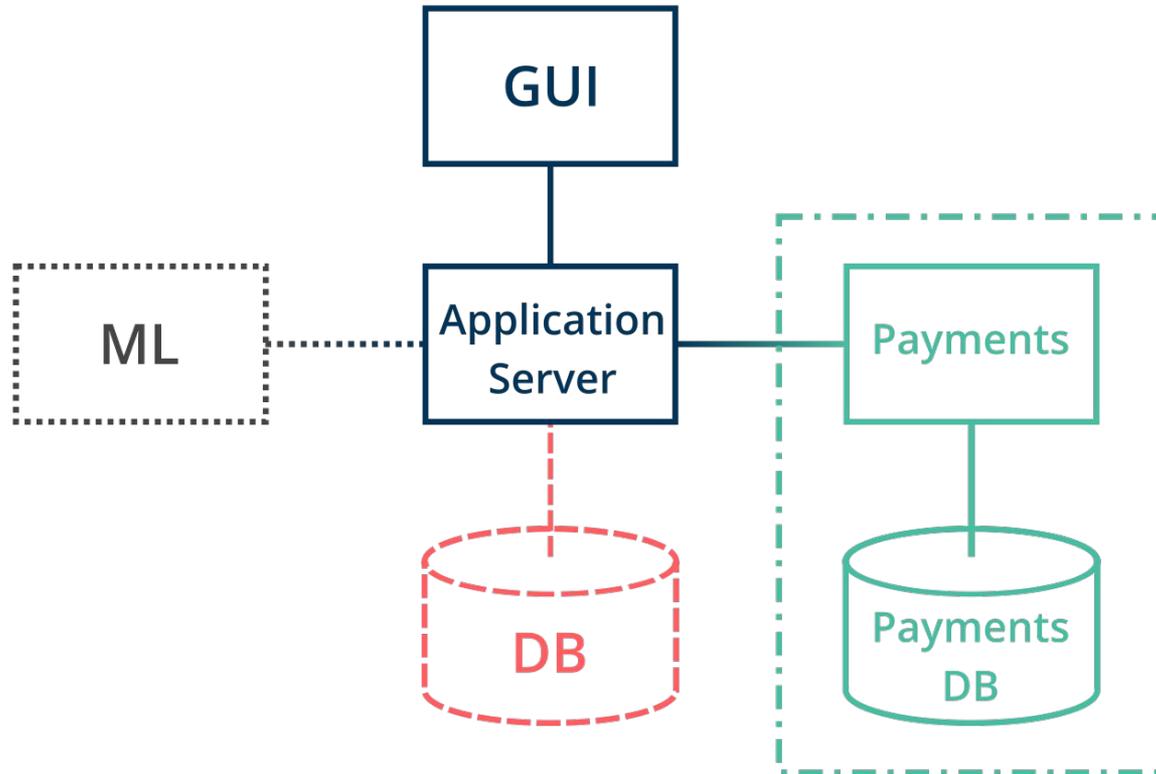
# Another Solution



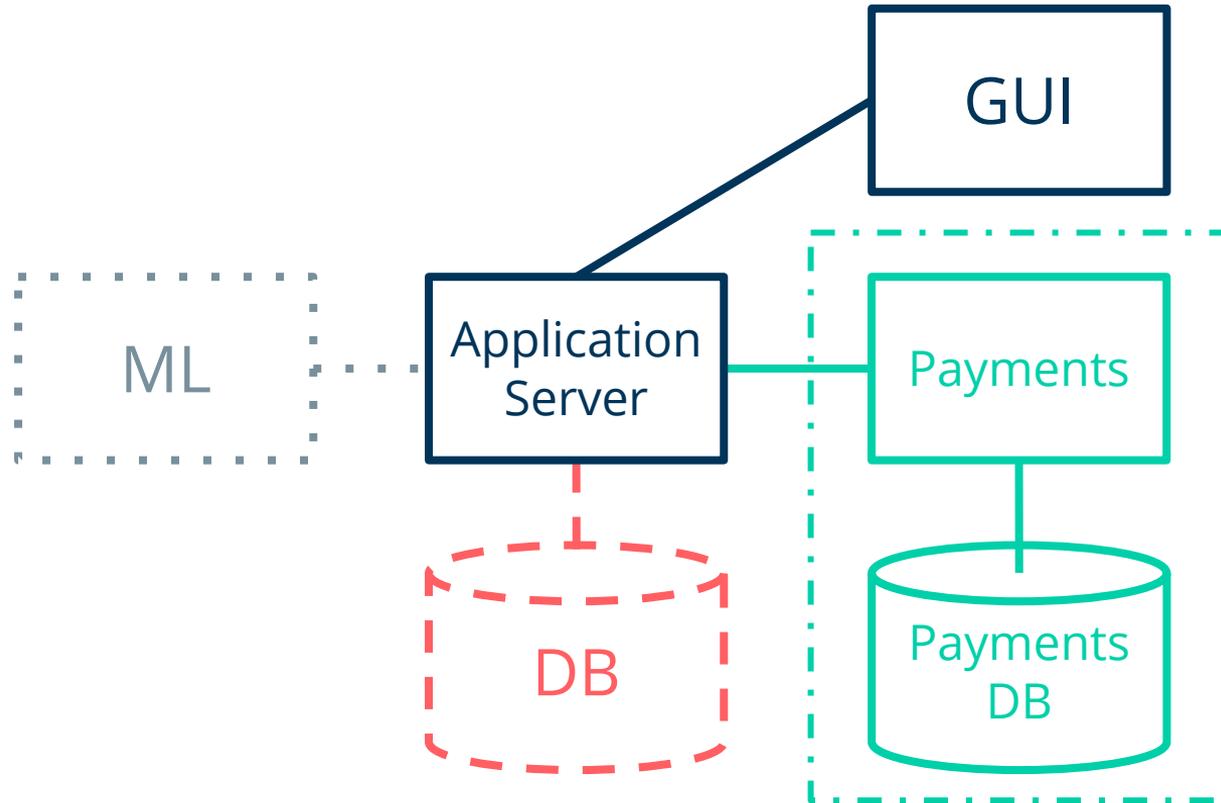
# Other Solutions



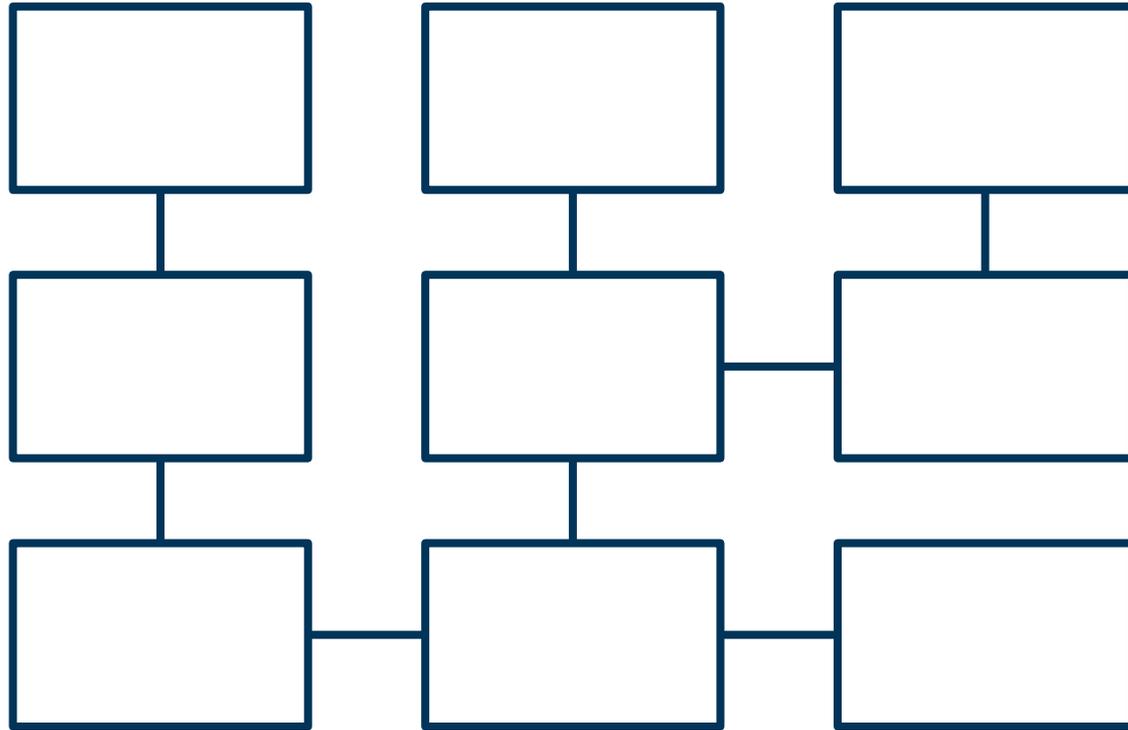
# “The” Solution



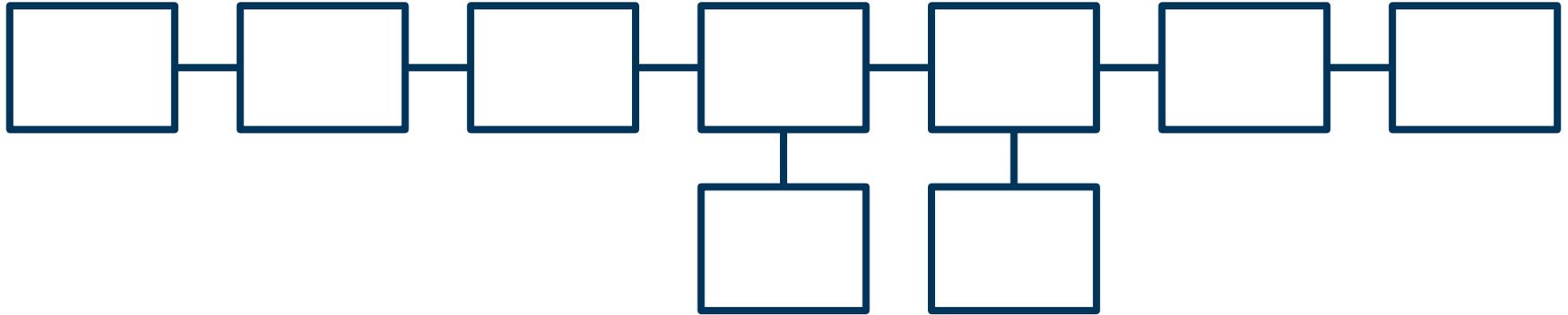
# Alternative Solution



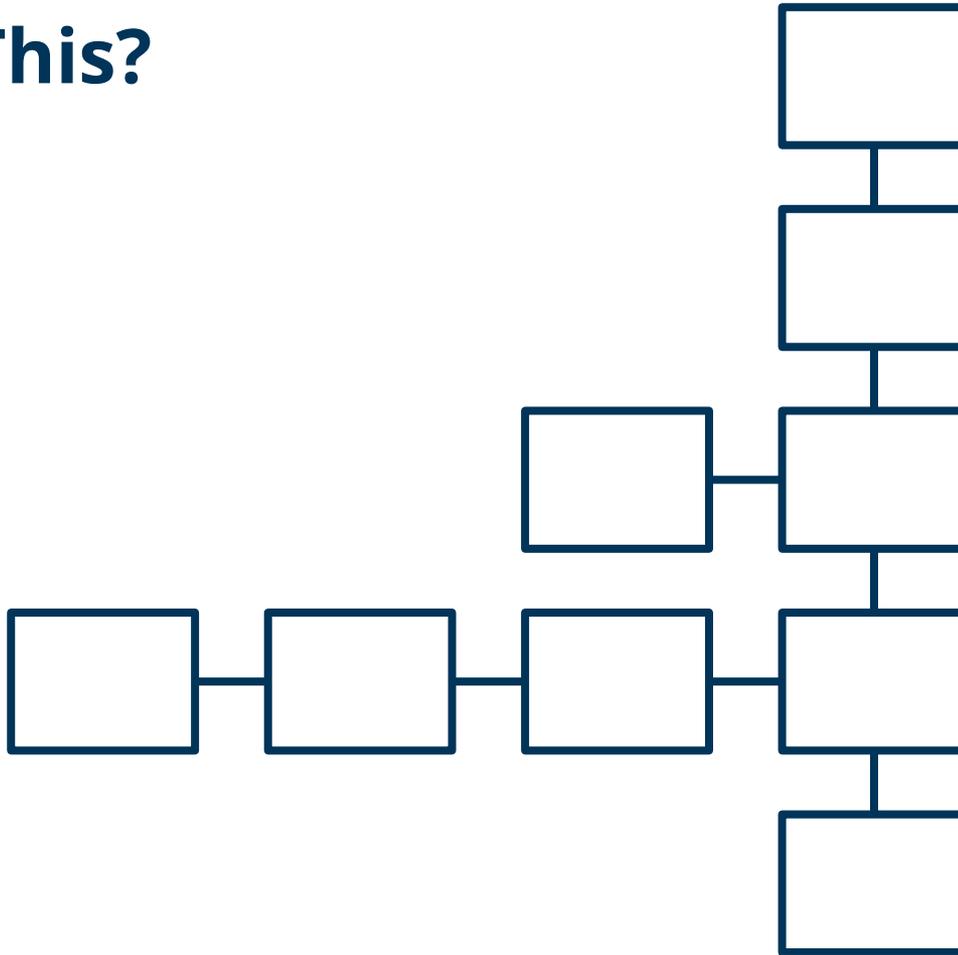
# What's This?



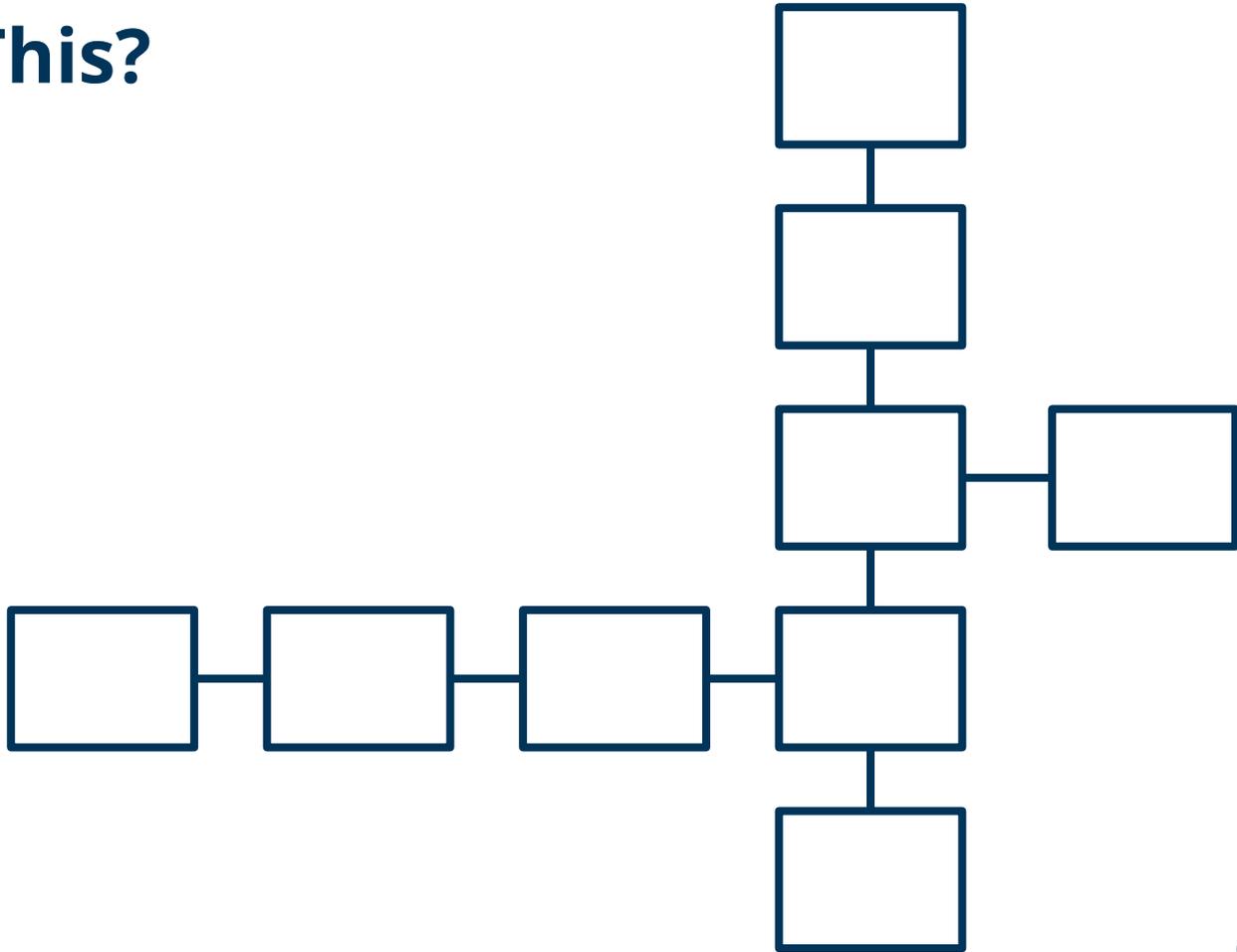
# What's This?



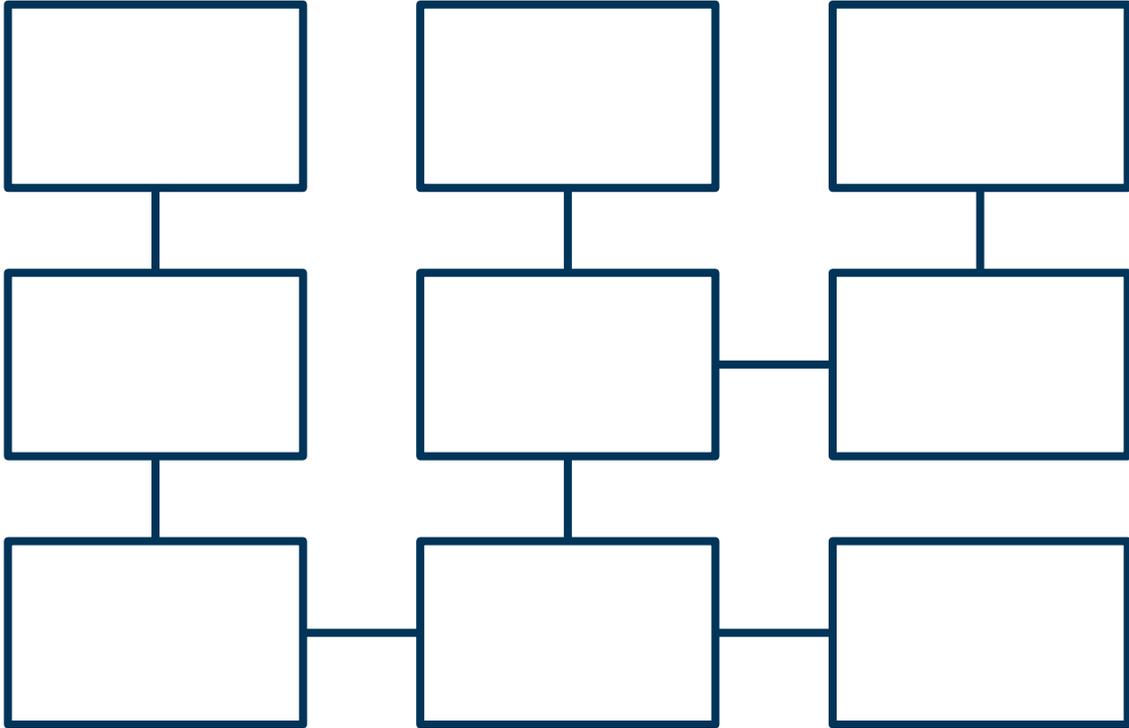
# What's This?



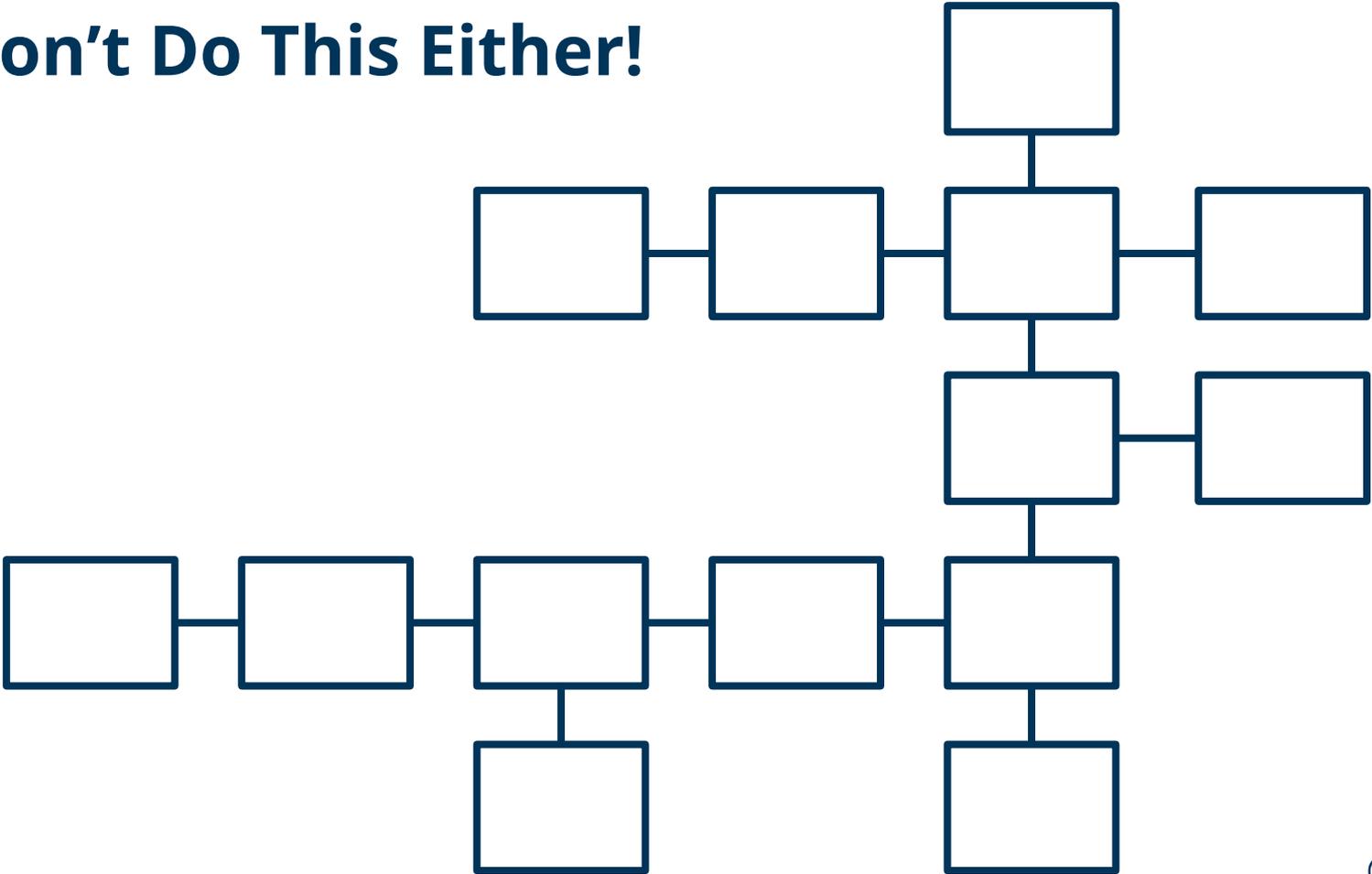
# What's This?



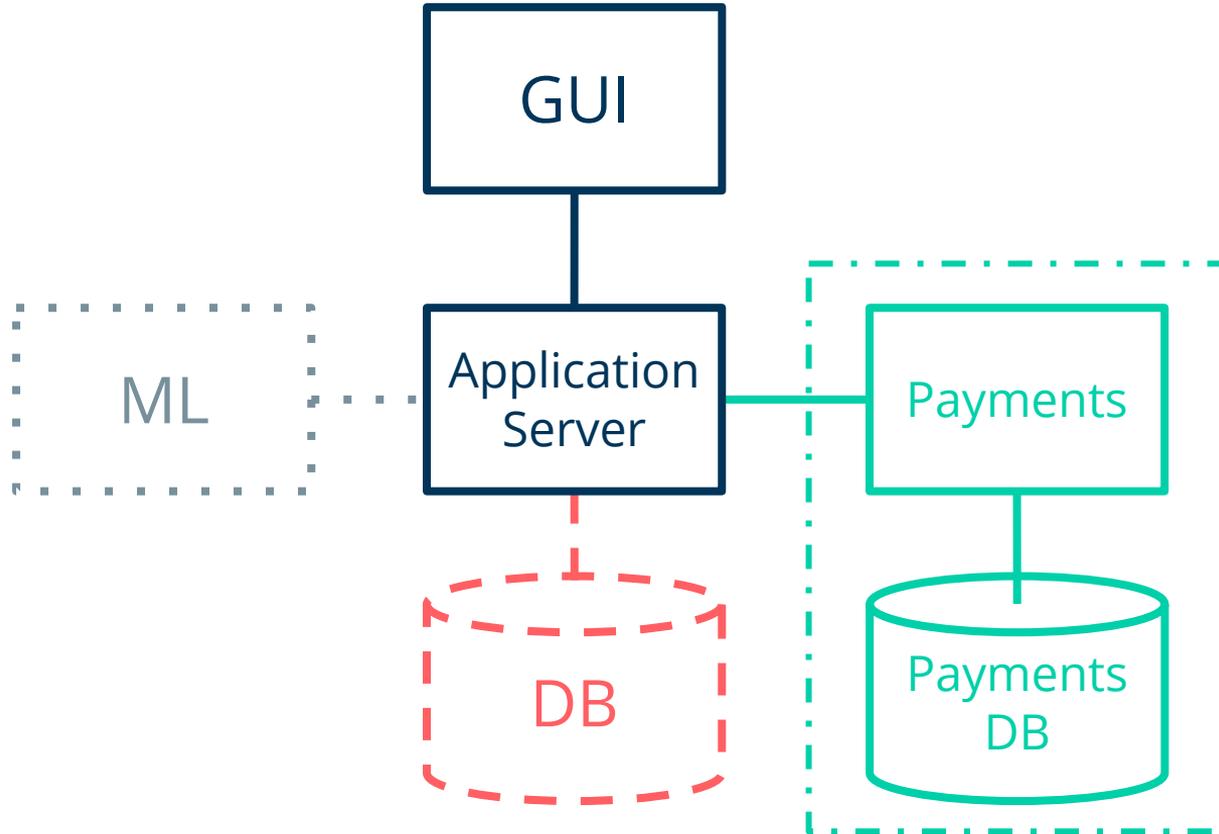
# Don't Do This!



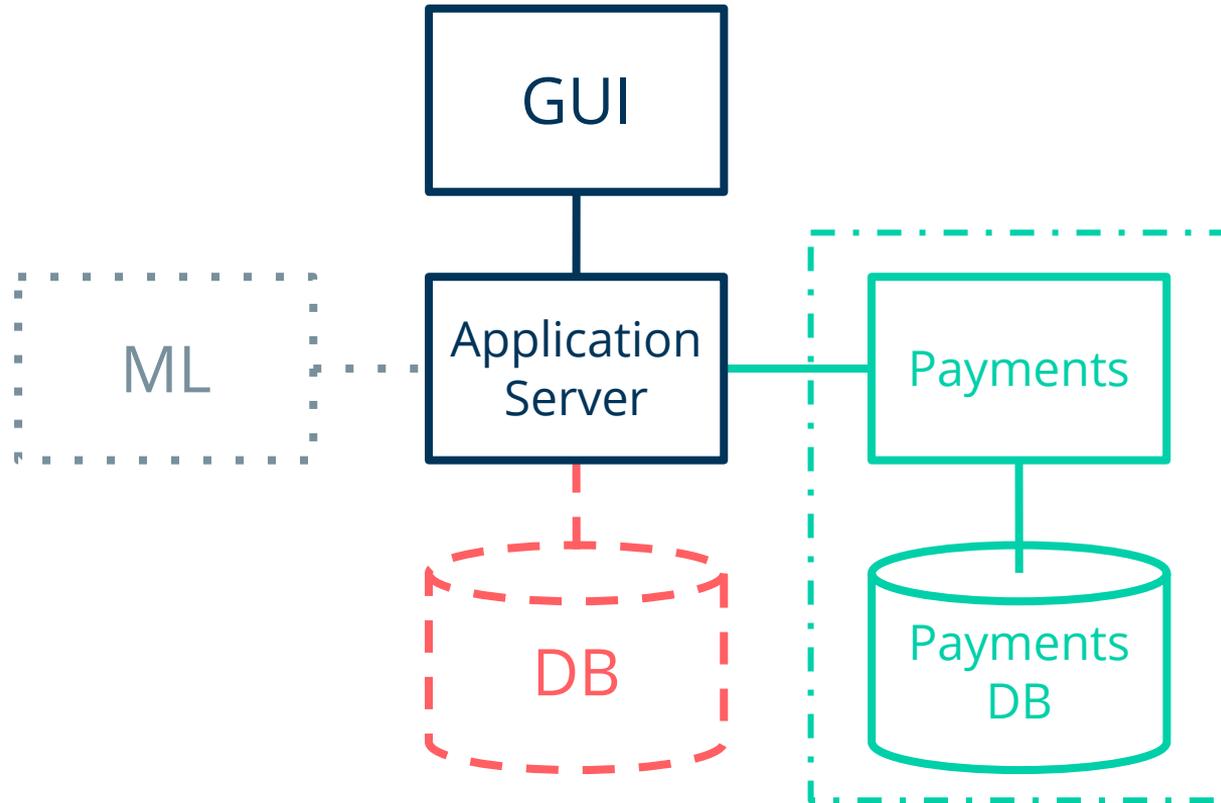
# Don't Do This Either!



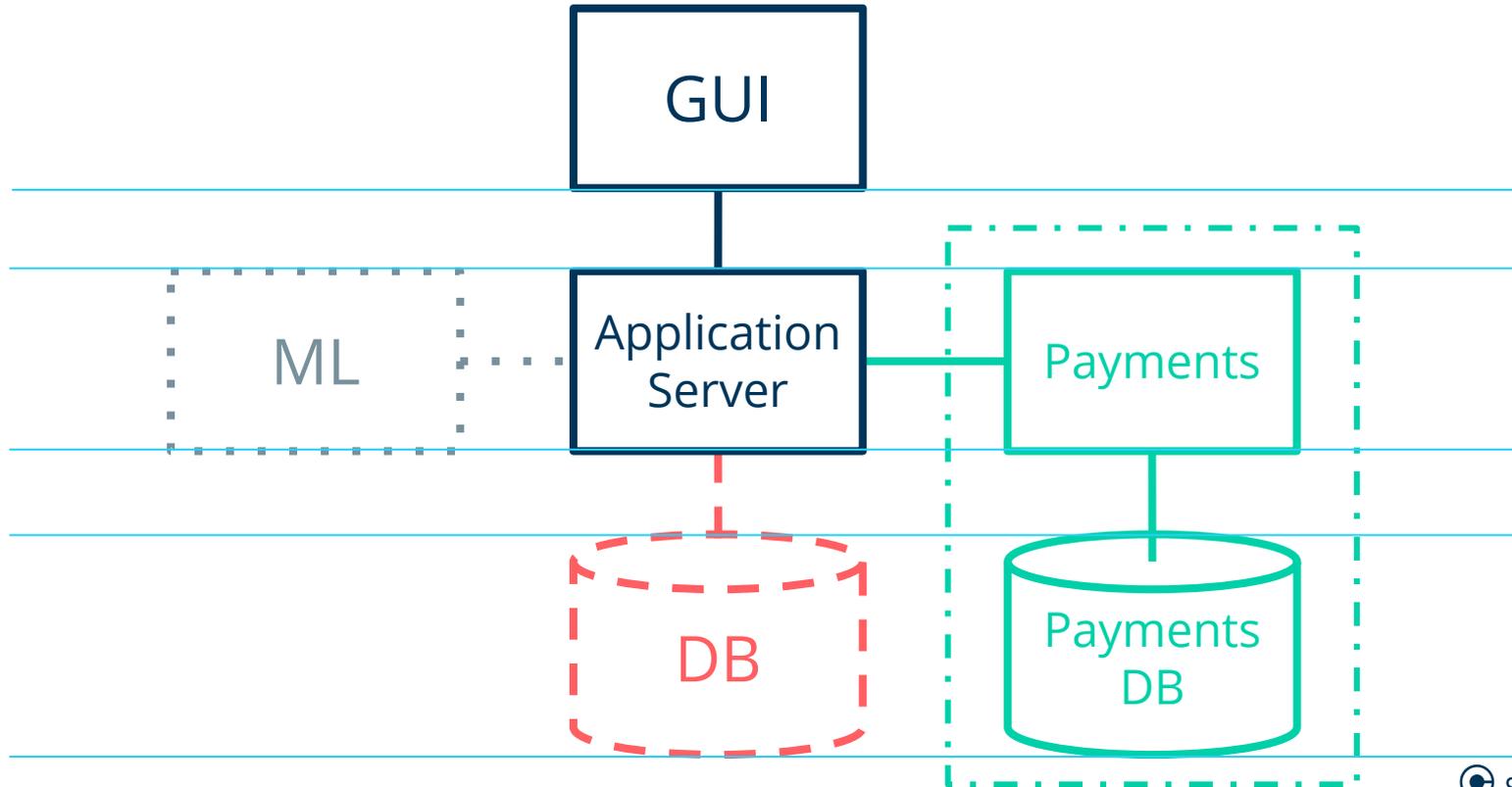
# Let's Revisit This



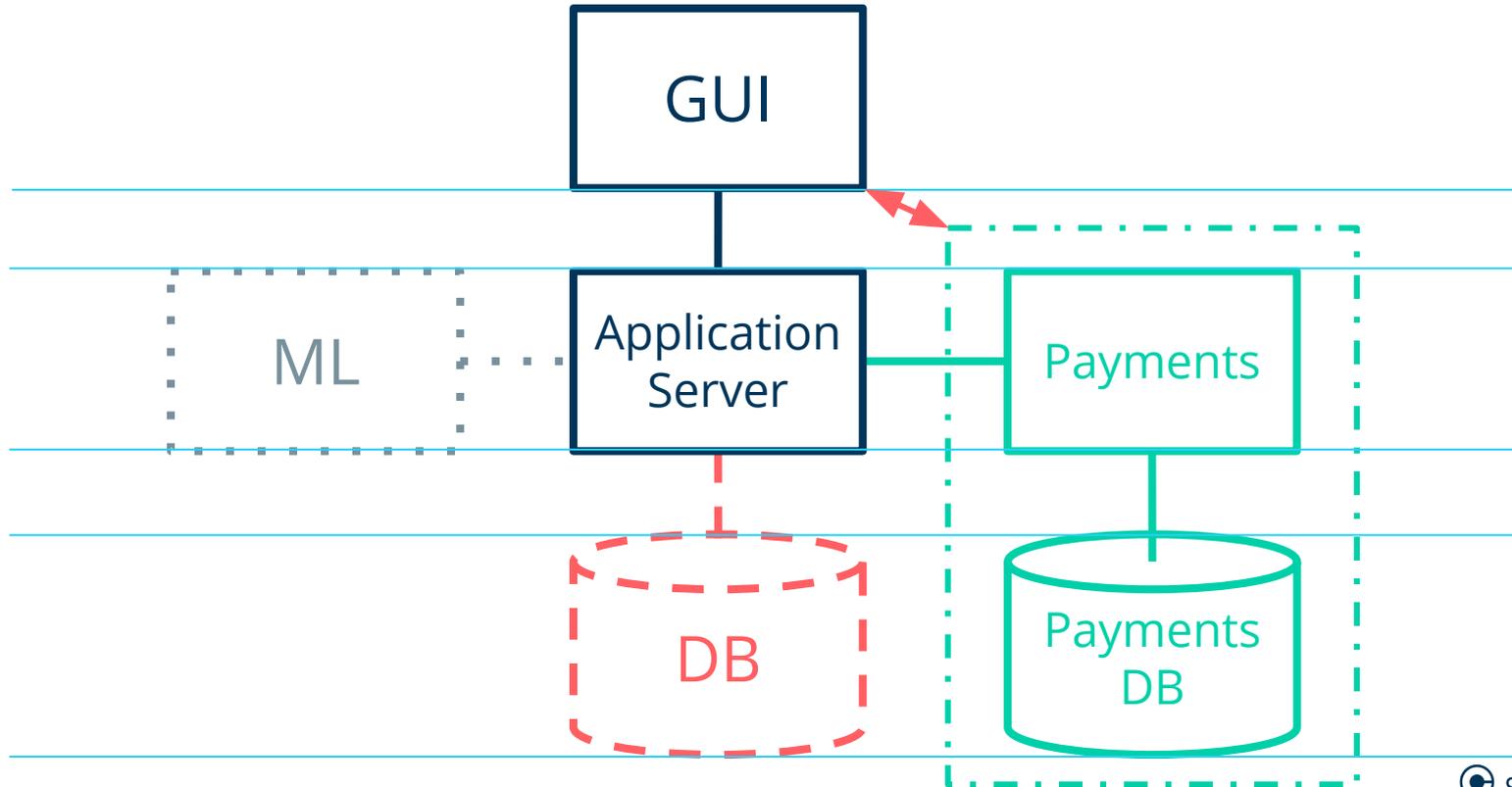
# Alternative Solution



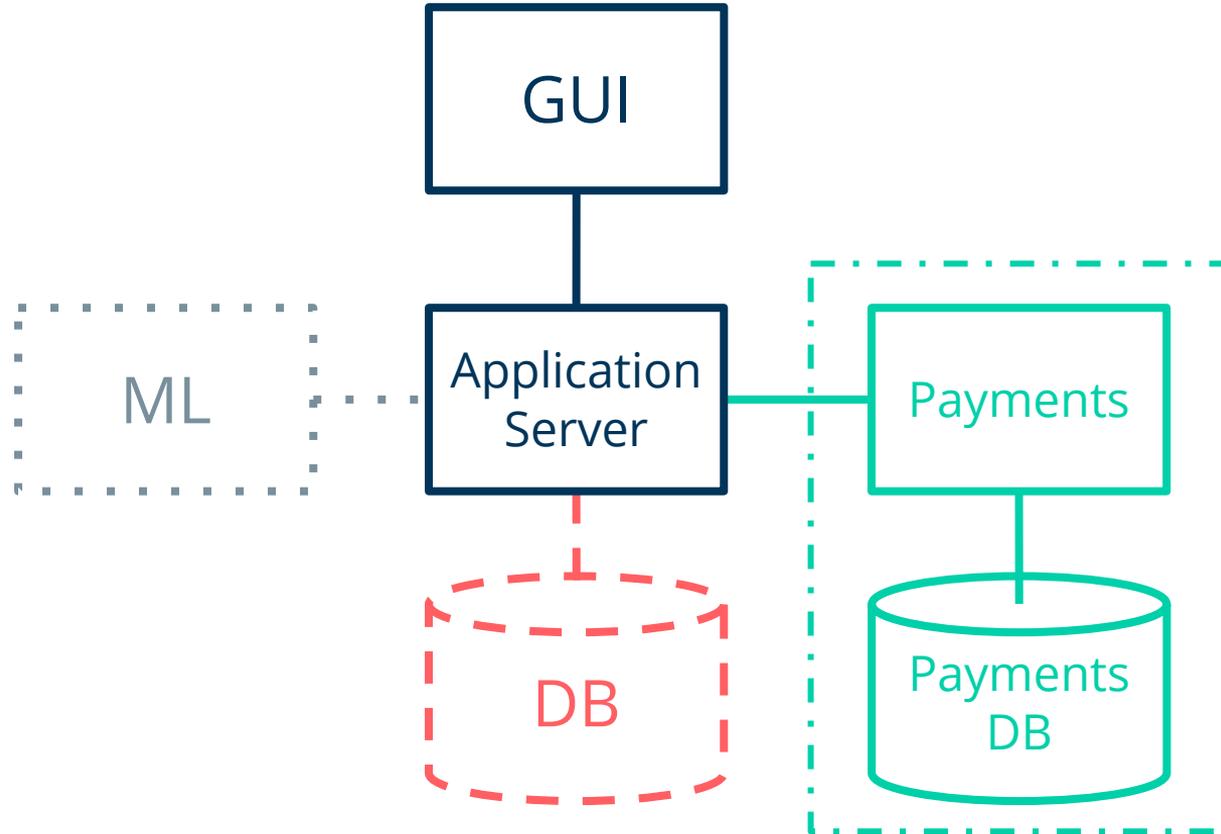
# Alternative Solution



# Alternative Solution

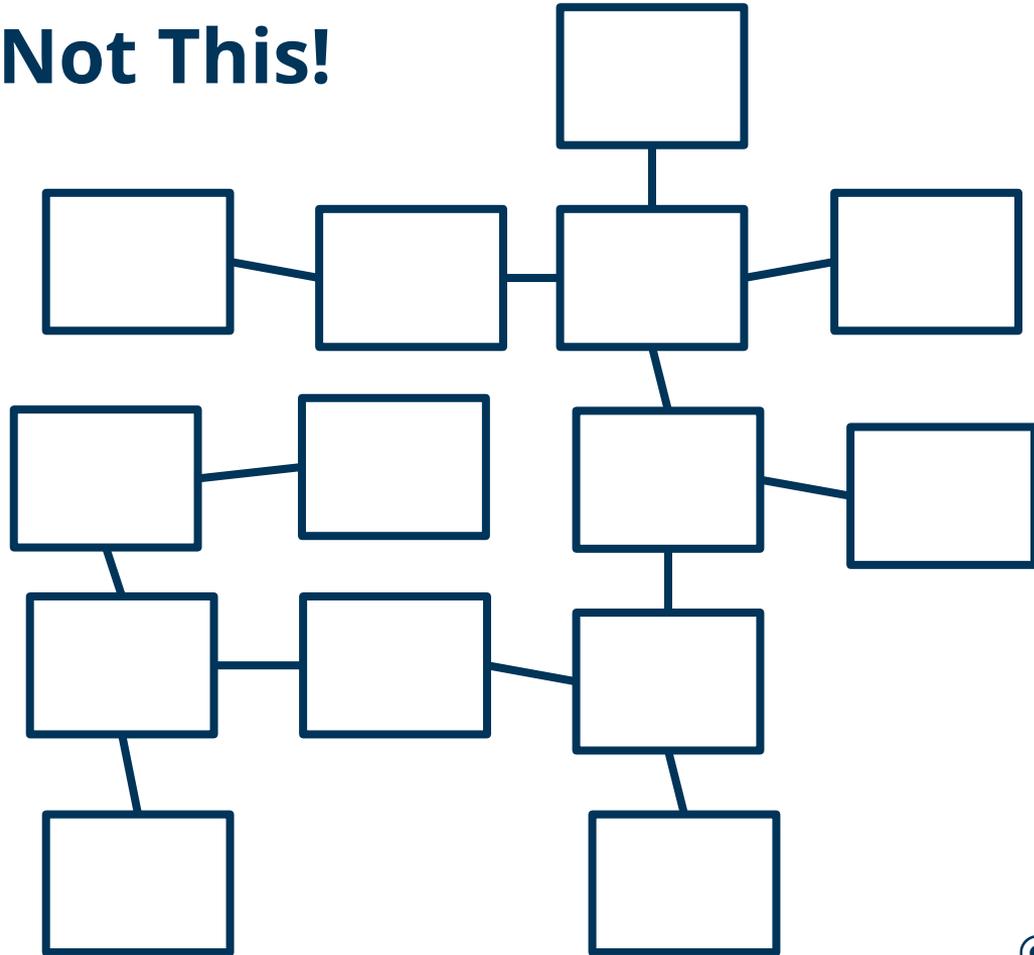


# Alternative Solution





# And Certainly Not This!

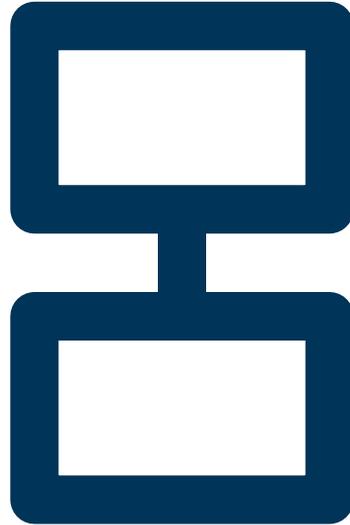


# Things to Strive For

- Symmetry
- Balance
- Equal spacing
- Alignment
- Not more than seven items
- A single message

# A Thing to Avoid:

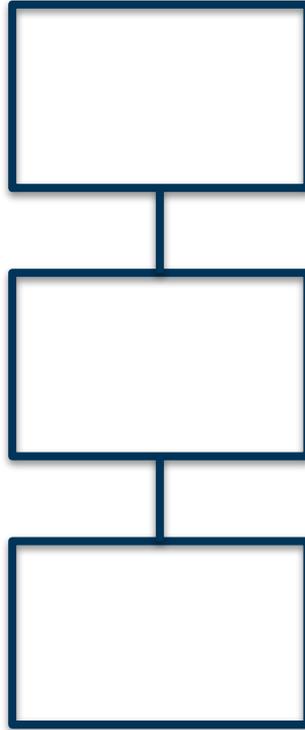
- Rounded corners



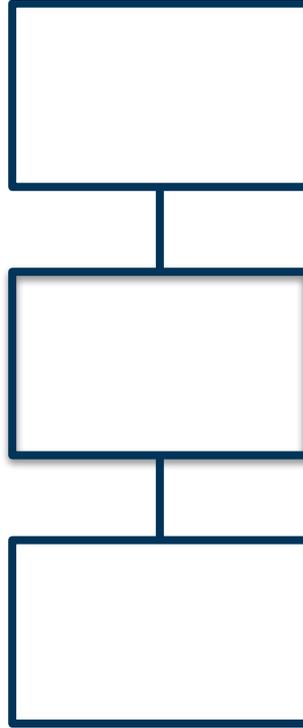
# Troubles with Rounded Corners



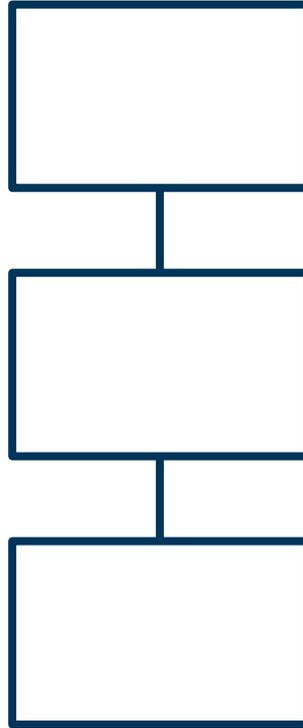
# Another Thing to Avoid



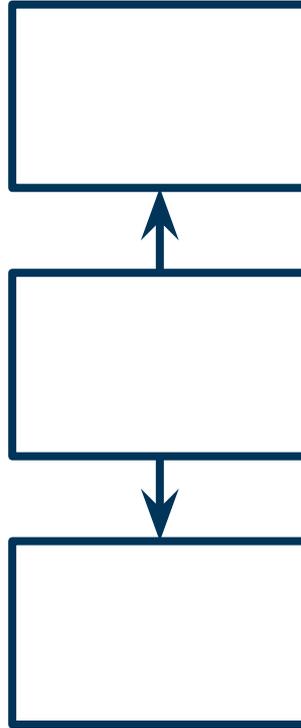
# Inconsistent Drop Shadows



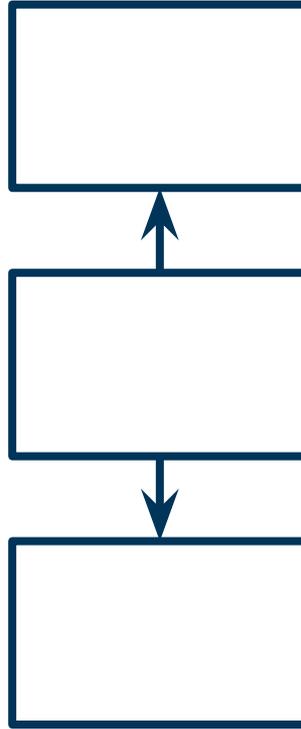
# And Finally, Putting Things Together:



# What's This?

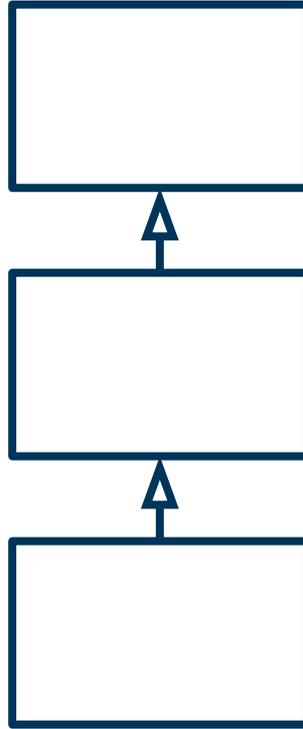


# What's This?

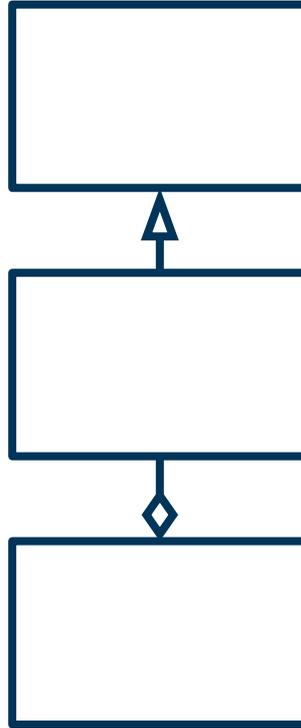


→ Control flow

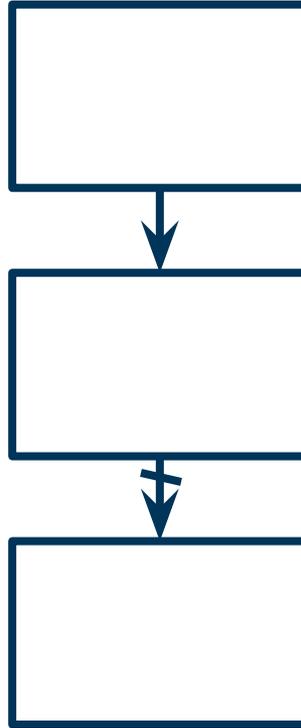
# What's This?



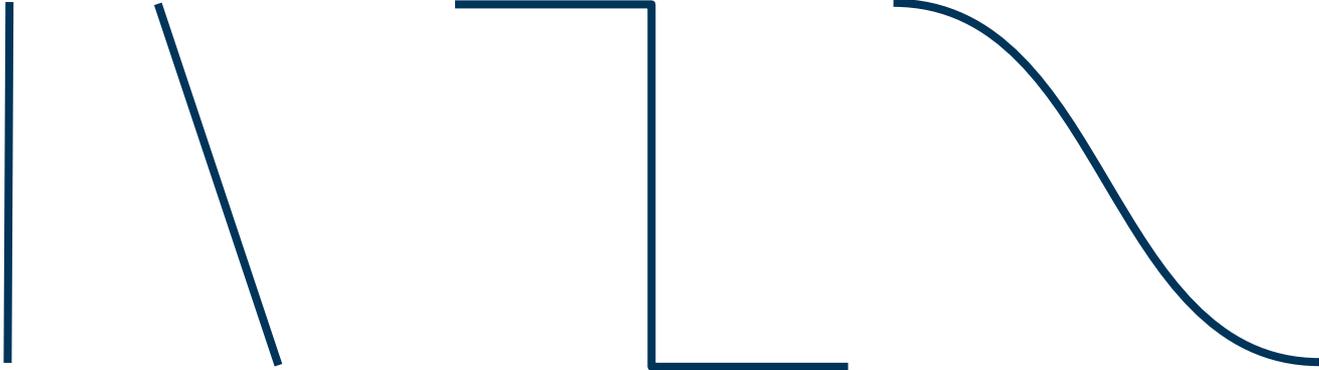
# What's This?



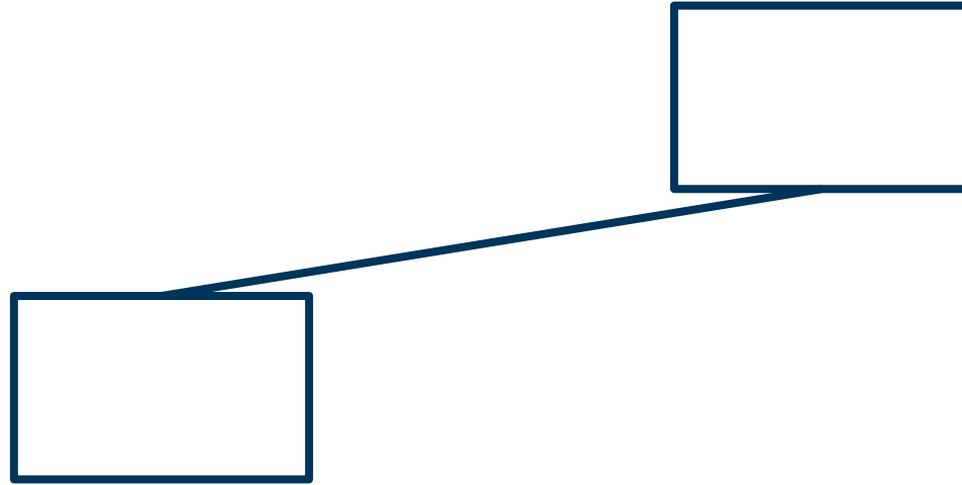
# What's This?



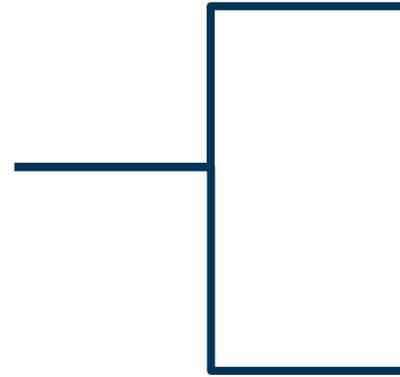
# Connectors Types



# Connect to the Center



# Spacing, Alignment, Symmetry, Balance



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# Drawing for IT Architects



Filip van Laenen

Questions?



**See You!**

