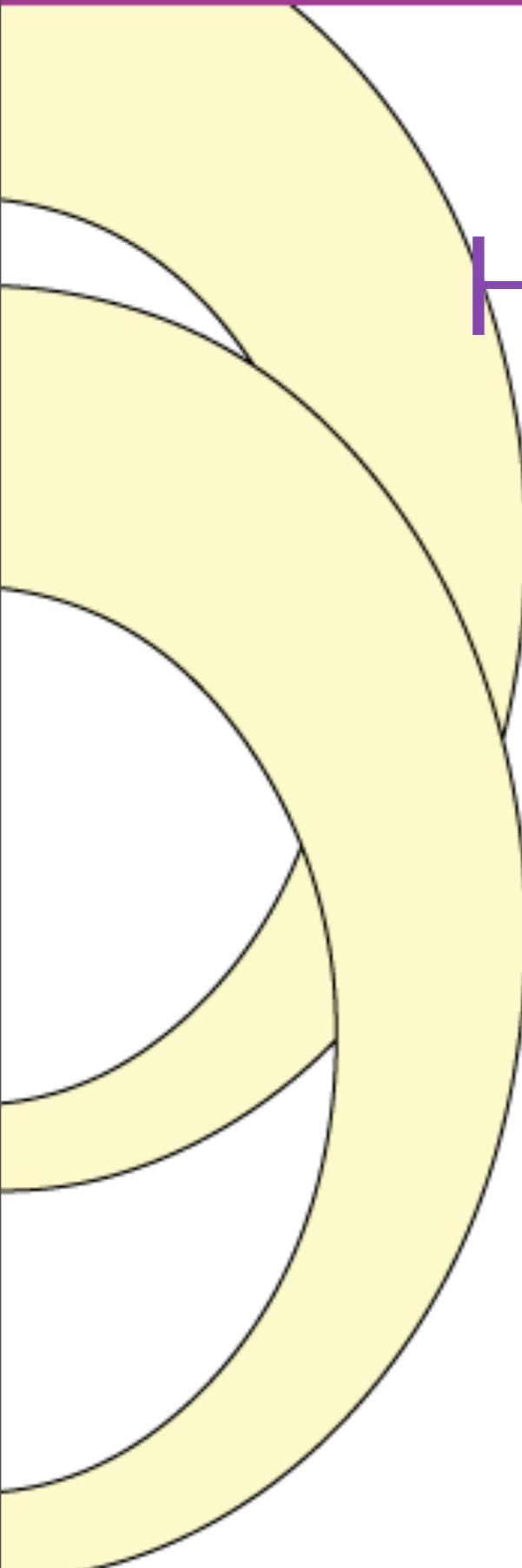


# Code Excellence for the Average Programmer

By Llewellyn Falco & Woody Zuill



How many are working  
with legacy code?

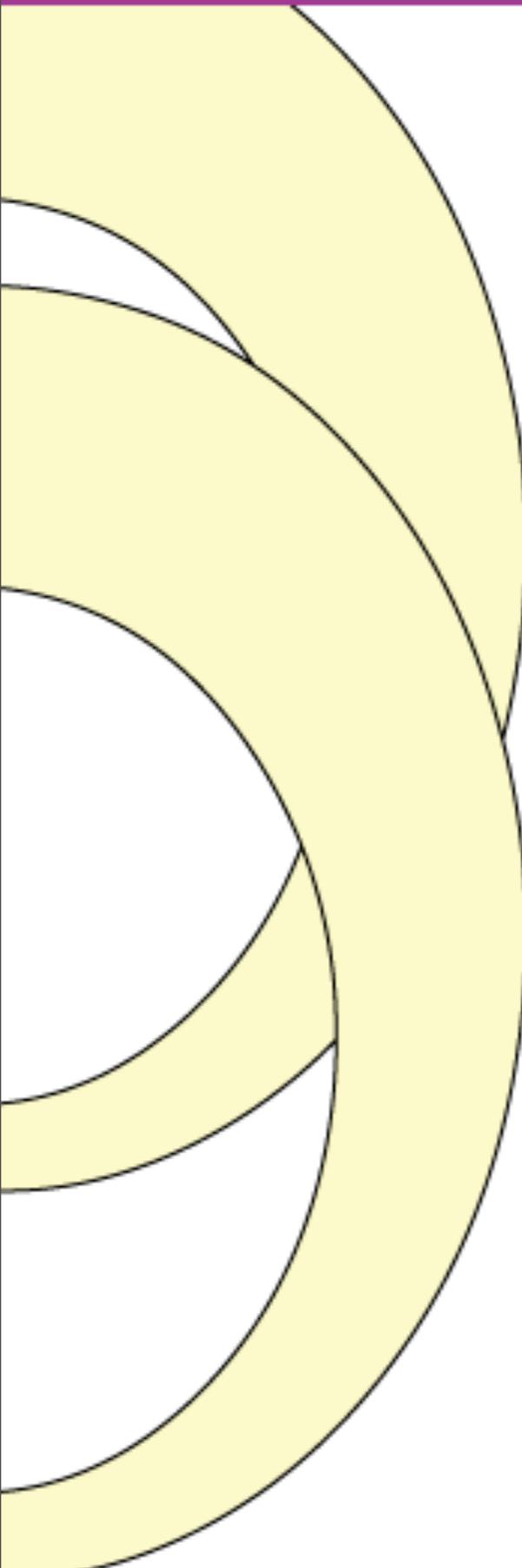




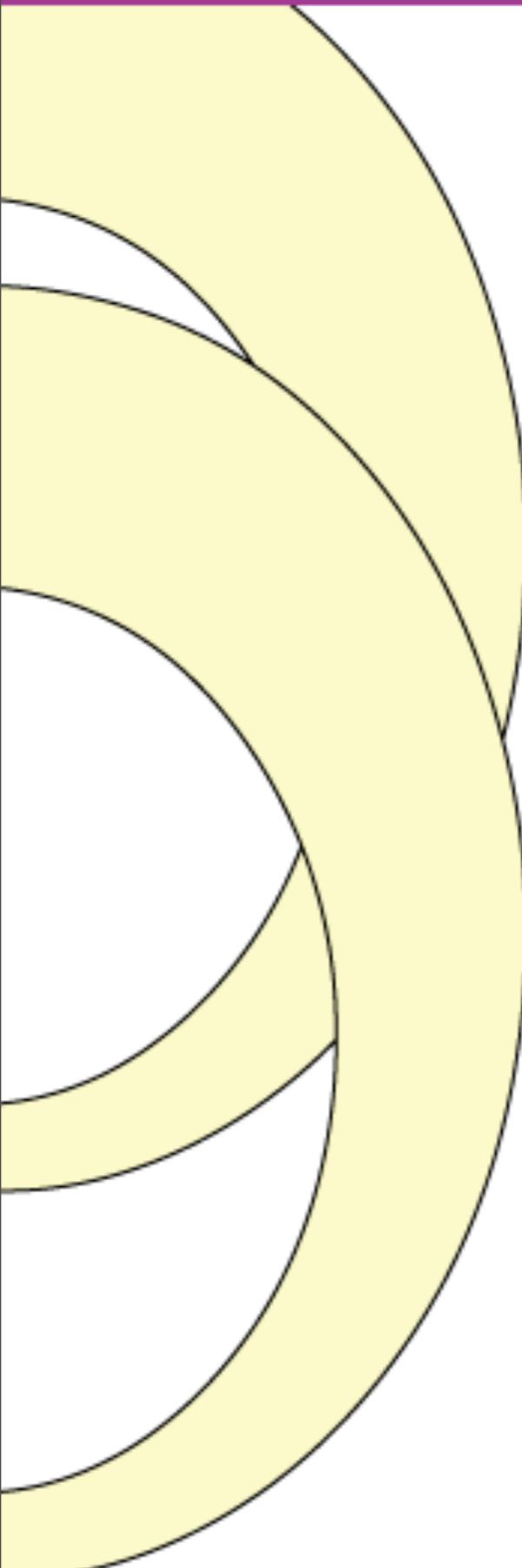


VS

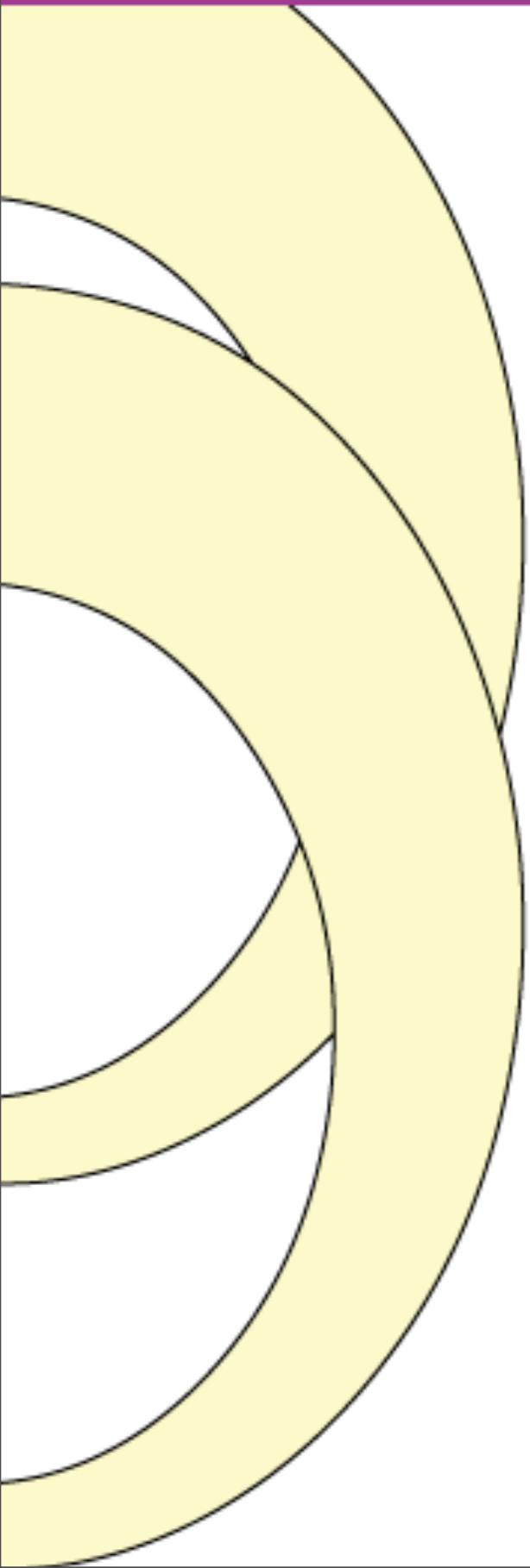




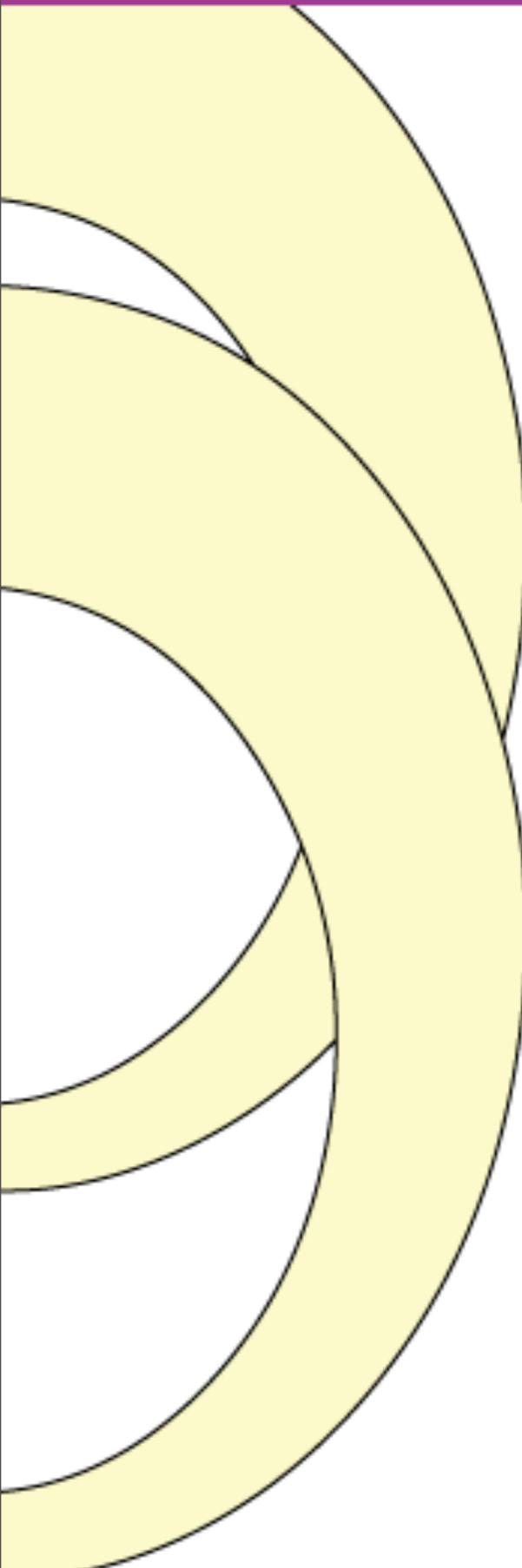
Goal:  
**Simple Techniques  
for Code Excellence**



# Project: Charting Project

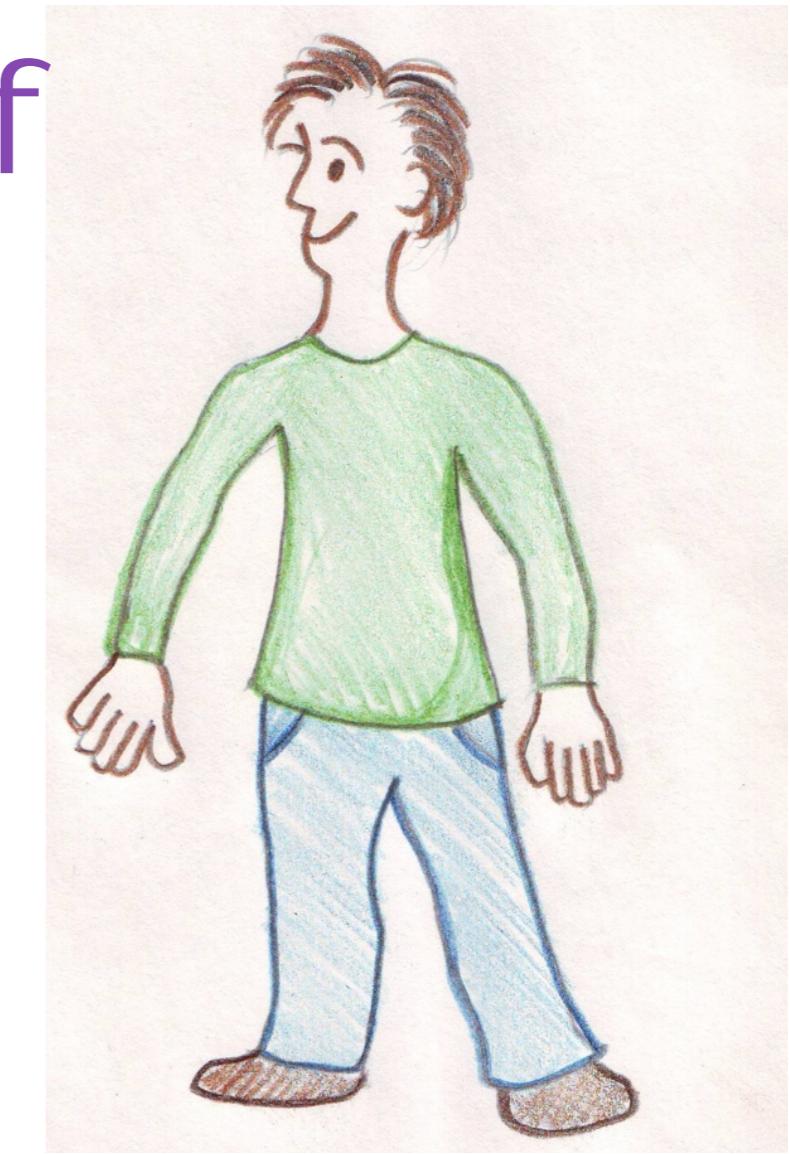


the golden rule  
**Leave things BETTER  
than you found them**



Never be more than 2 minutes away  
from checking in and going home

# Arm Yourself



# Arm Yourself

► Tests



# Arm Yourself

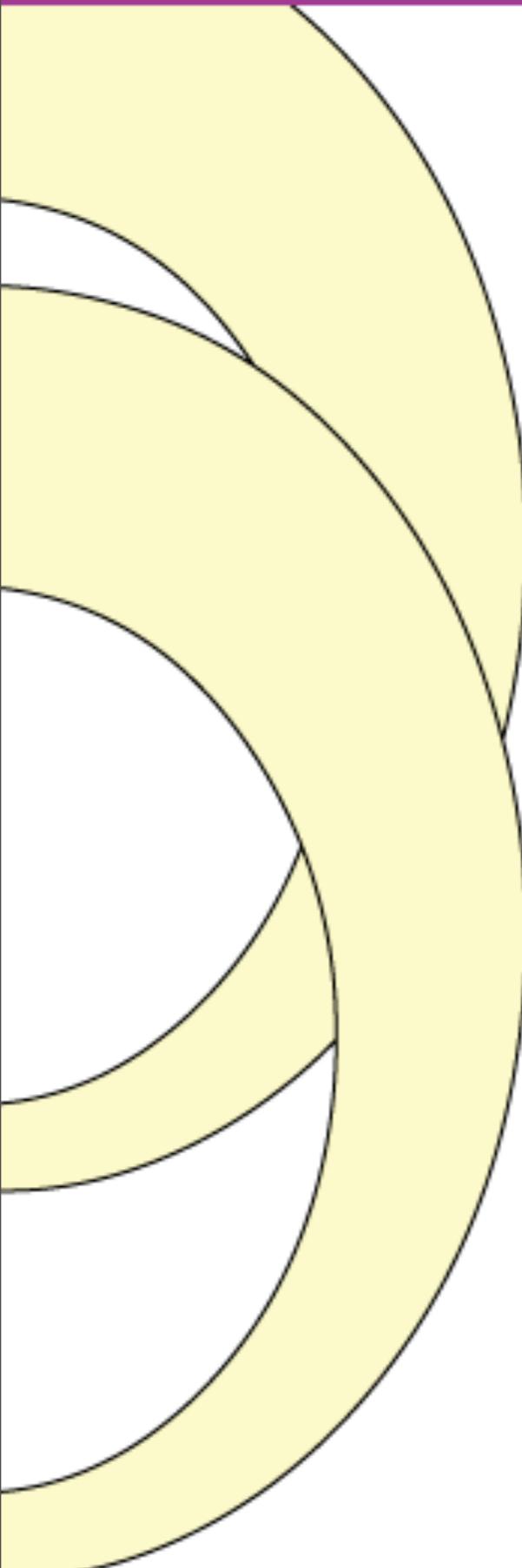
- ▶ Tests
- ▶ Tools



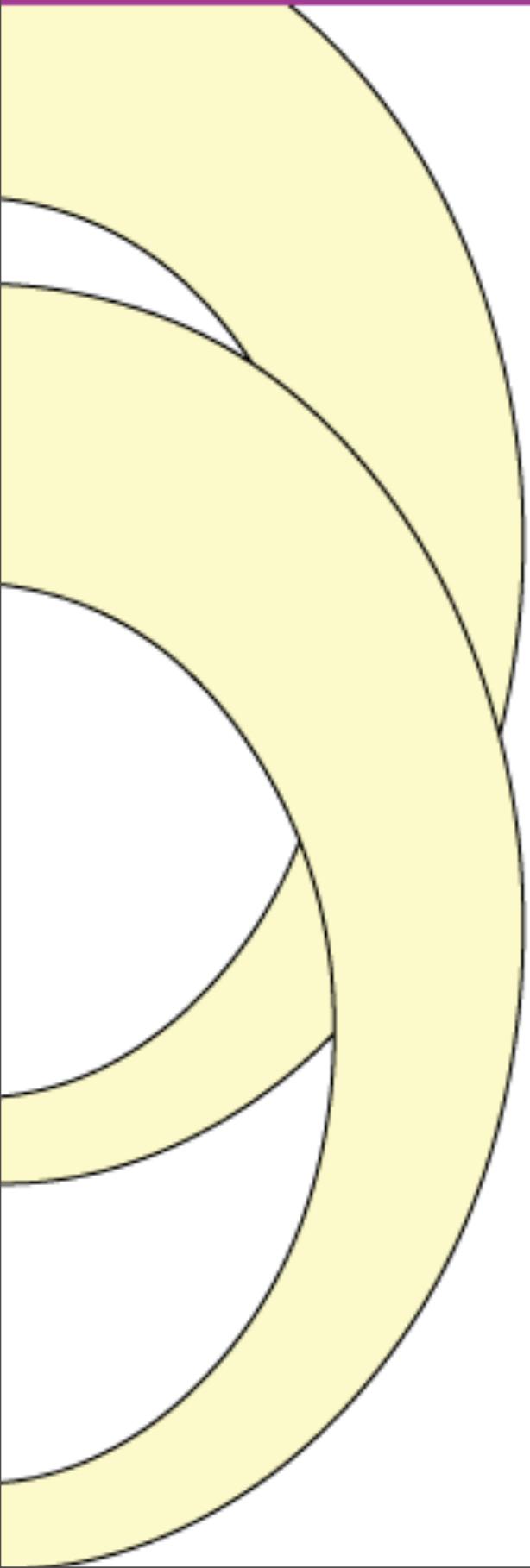
# Arm Yourself

- ▶ Tests
- ▶ Tools
- ▶ Patterns

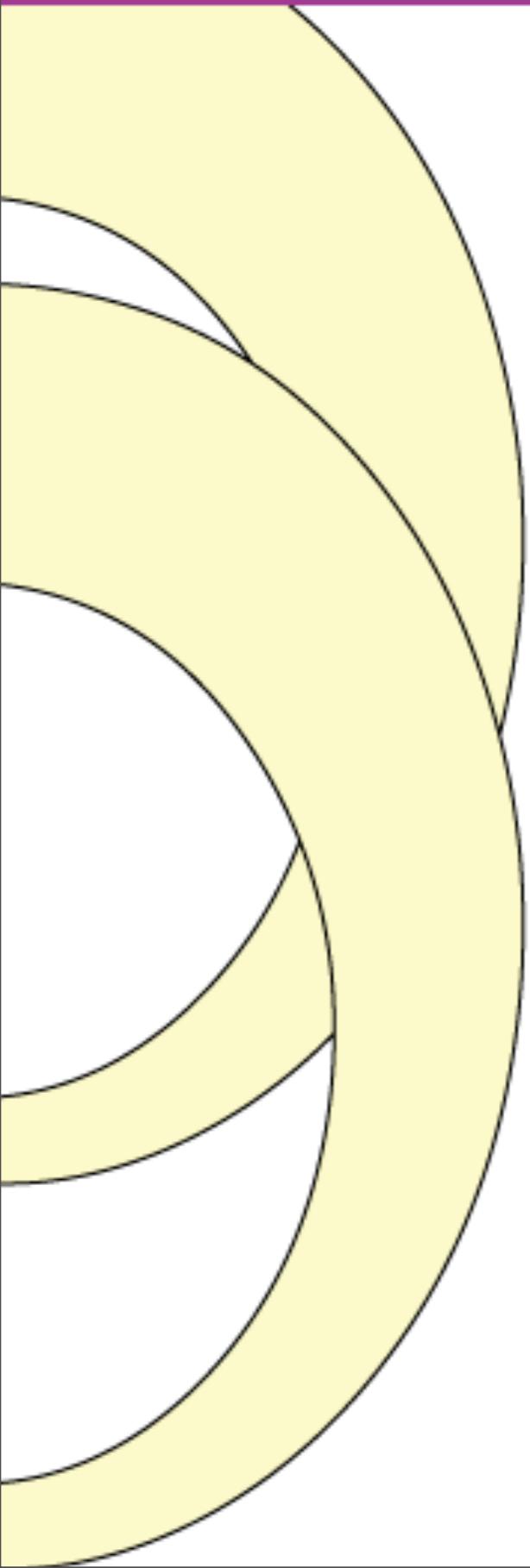




What makes code  
hard to work with?

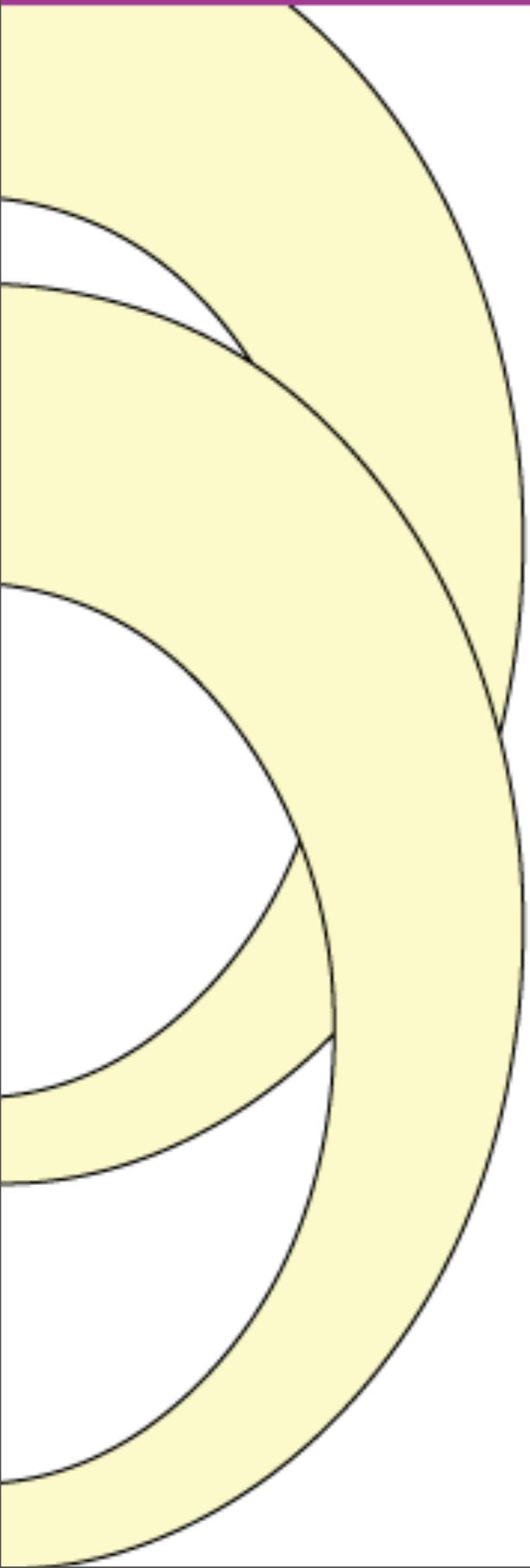


Remove the 3 C's...



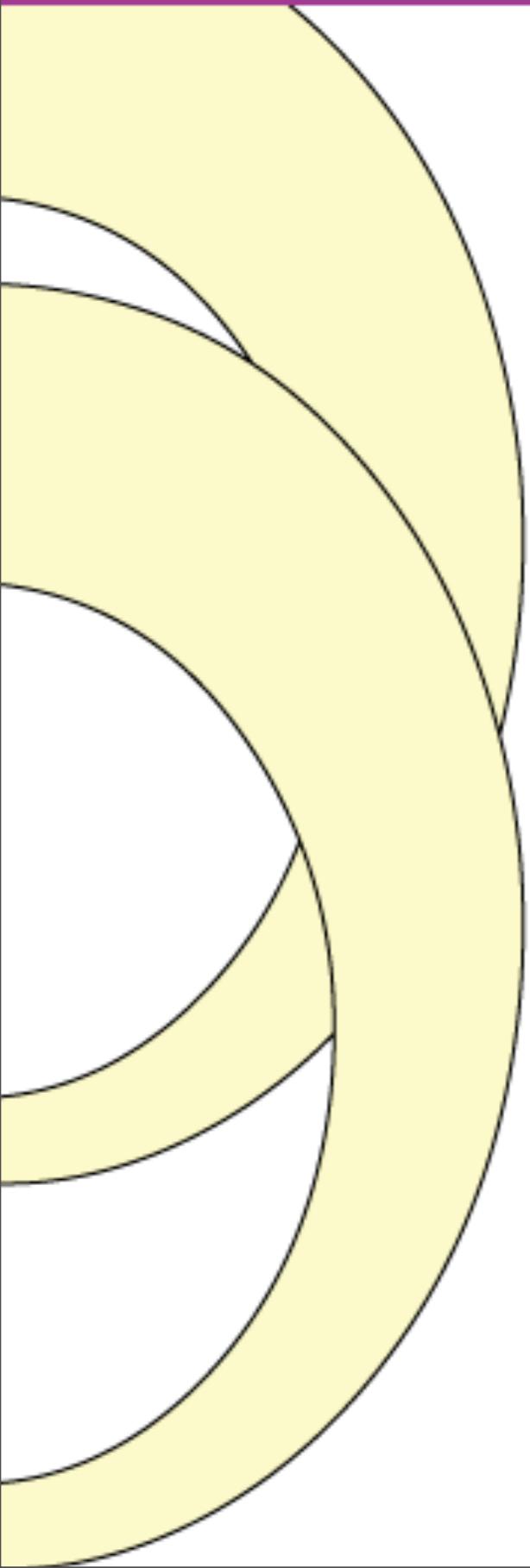
Remove the 3 C's...

- ▶ Clutter



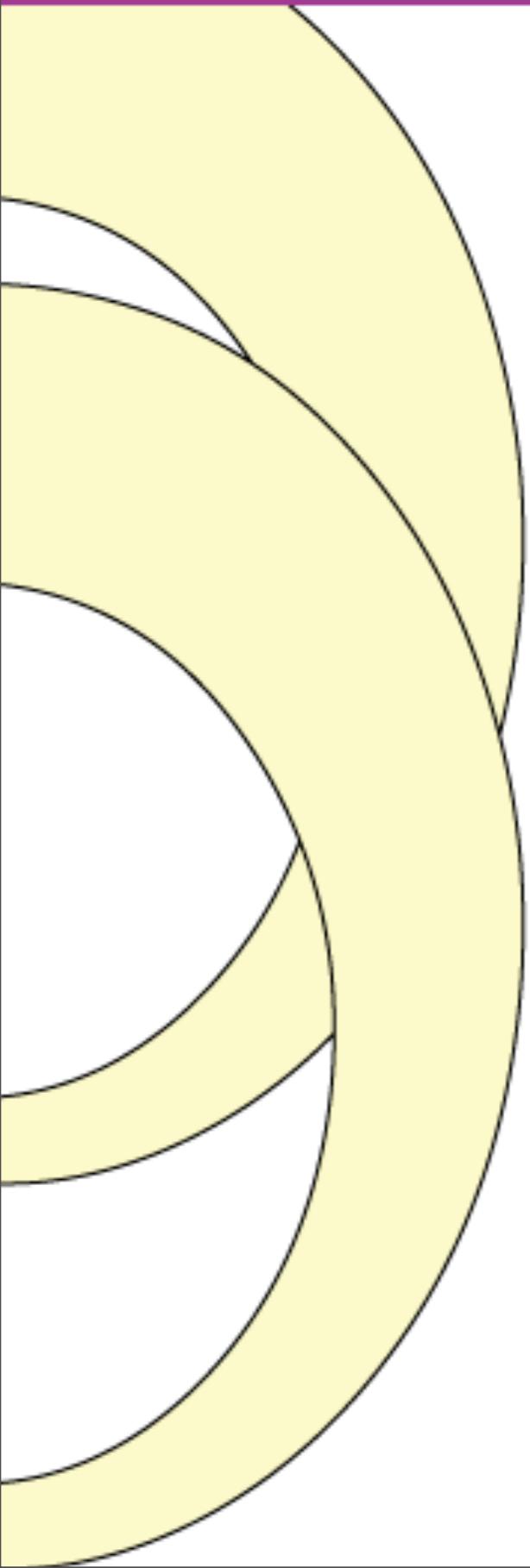
Remove the 3 C's...

- ▶ Clutter
- ▶ Complexity



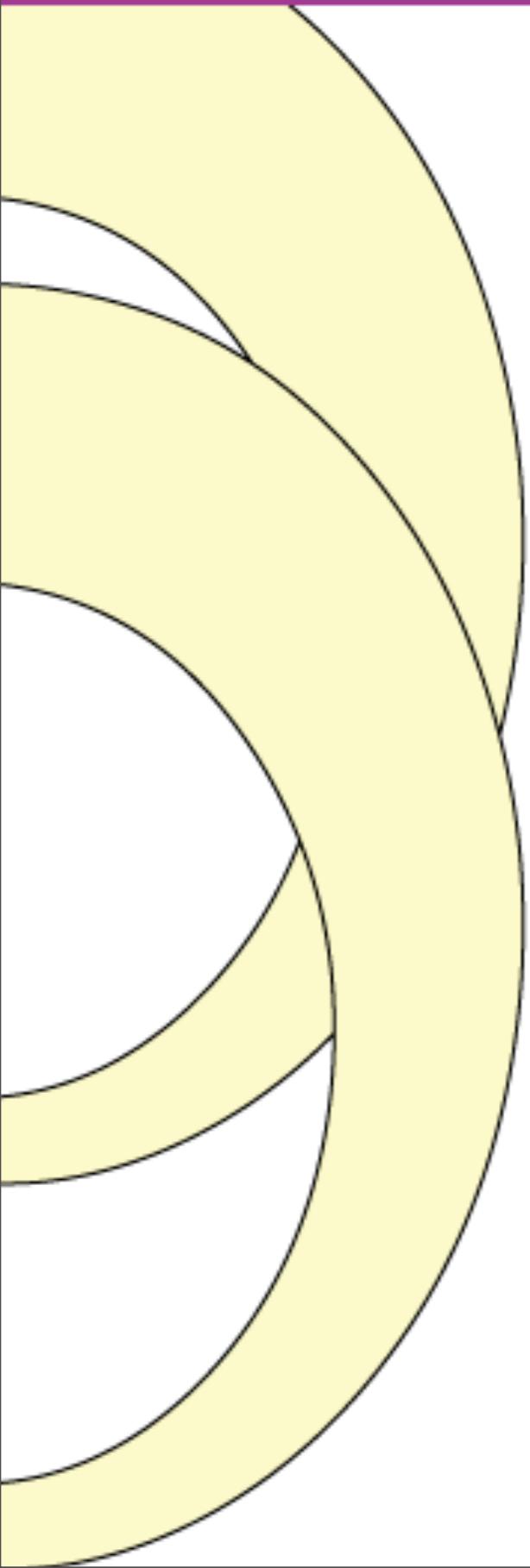
## Remove the 3 C's...

- ▶ Clutter
- ▶ Complexity
- ▶ Cleverness



# Removing Clutter

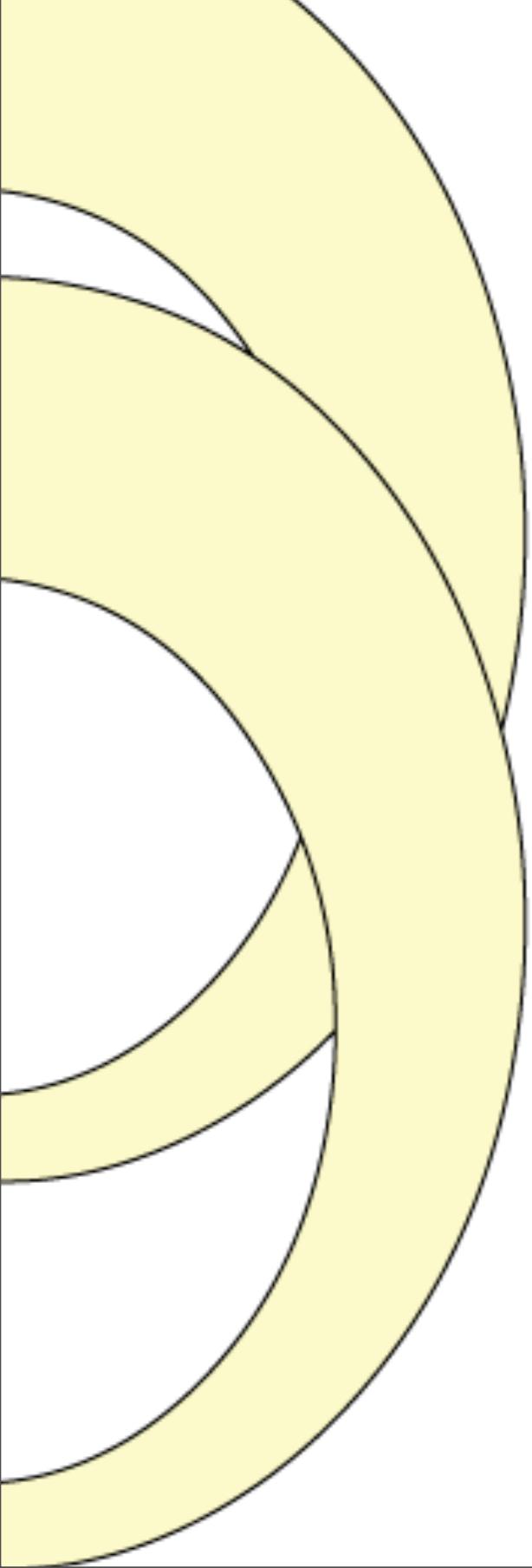
Definition : Clutter is anything in your code that does not add value.



# Removing Clutter

Definition : Clutter is anything in your code that does not add value.

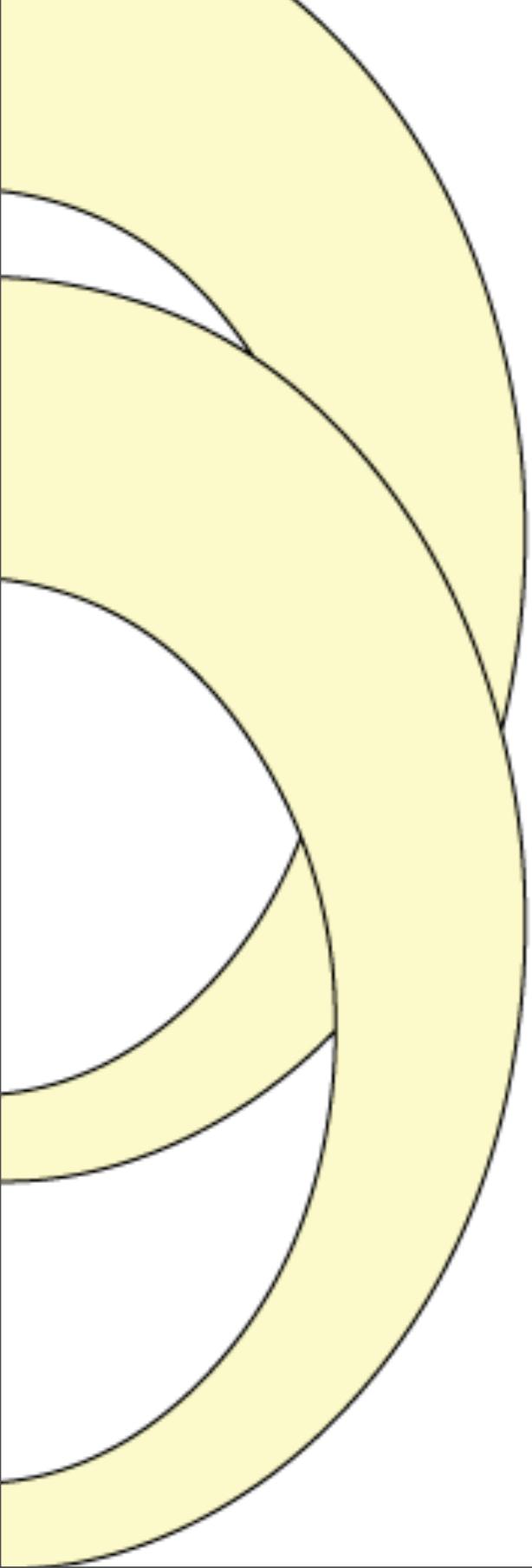
- ▶ Format your code



# Removing Clutter

Definition : Clutter is anything in your code that does not add value.

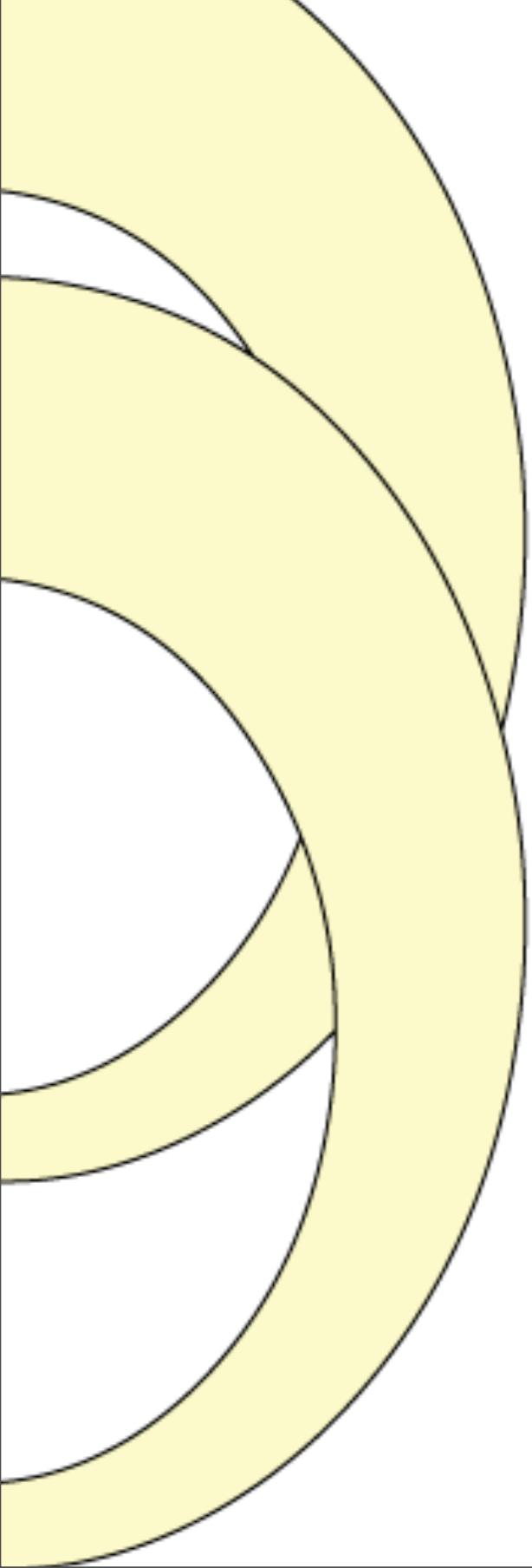
- ▶ Format your code
- ▶ Delete comments



# Removing Clutter

**Definition :** Clutter is anything in your code that does not add value.

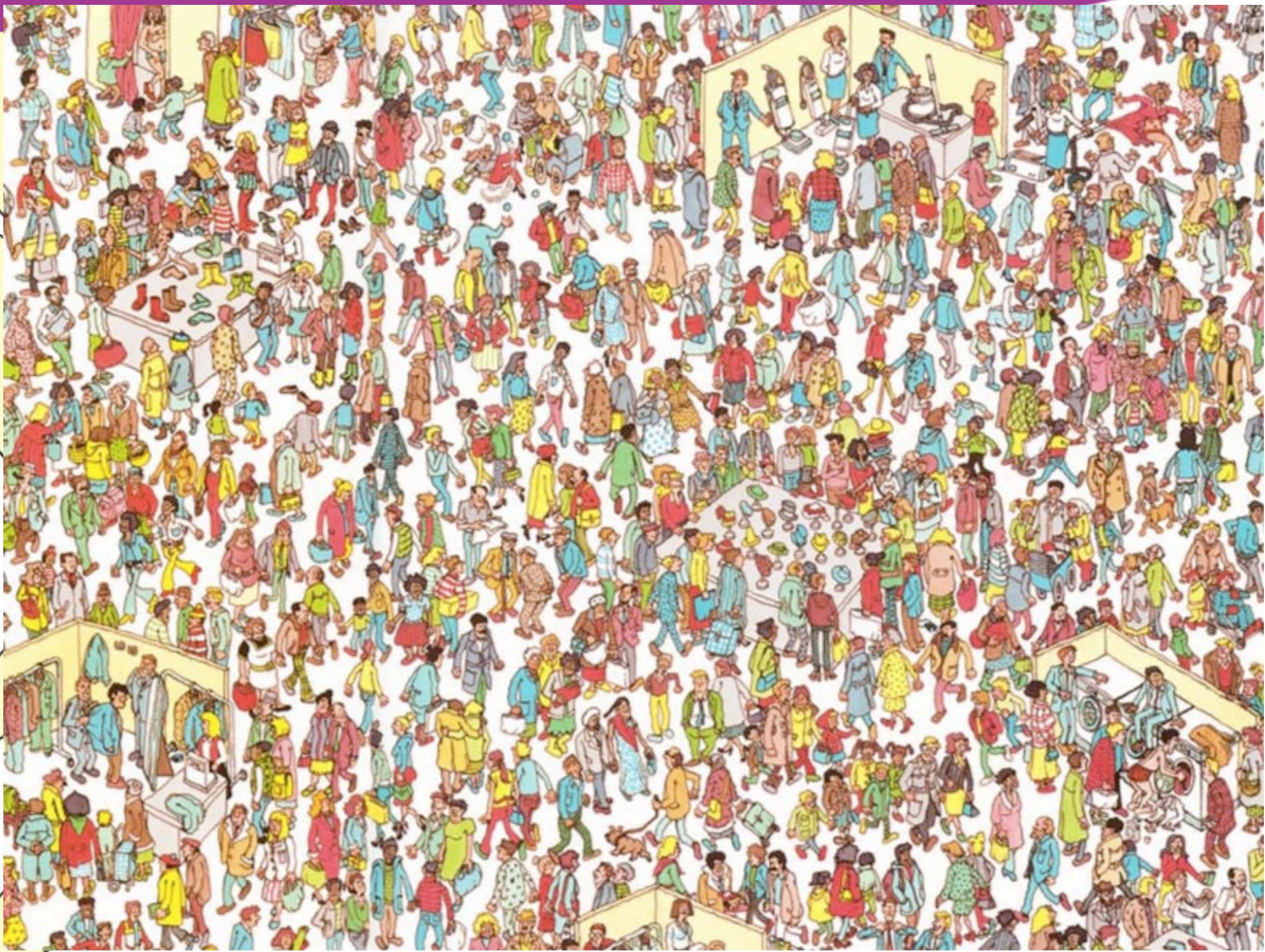
- ▶ Format your code
- ▶ Delete comments
- ▶ Delete dead code

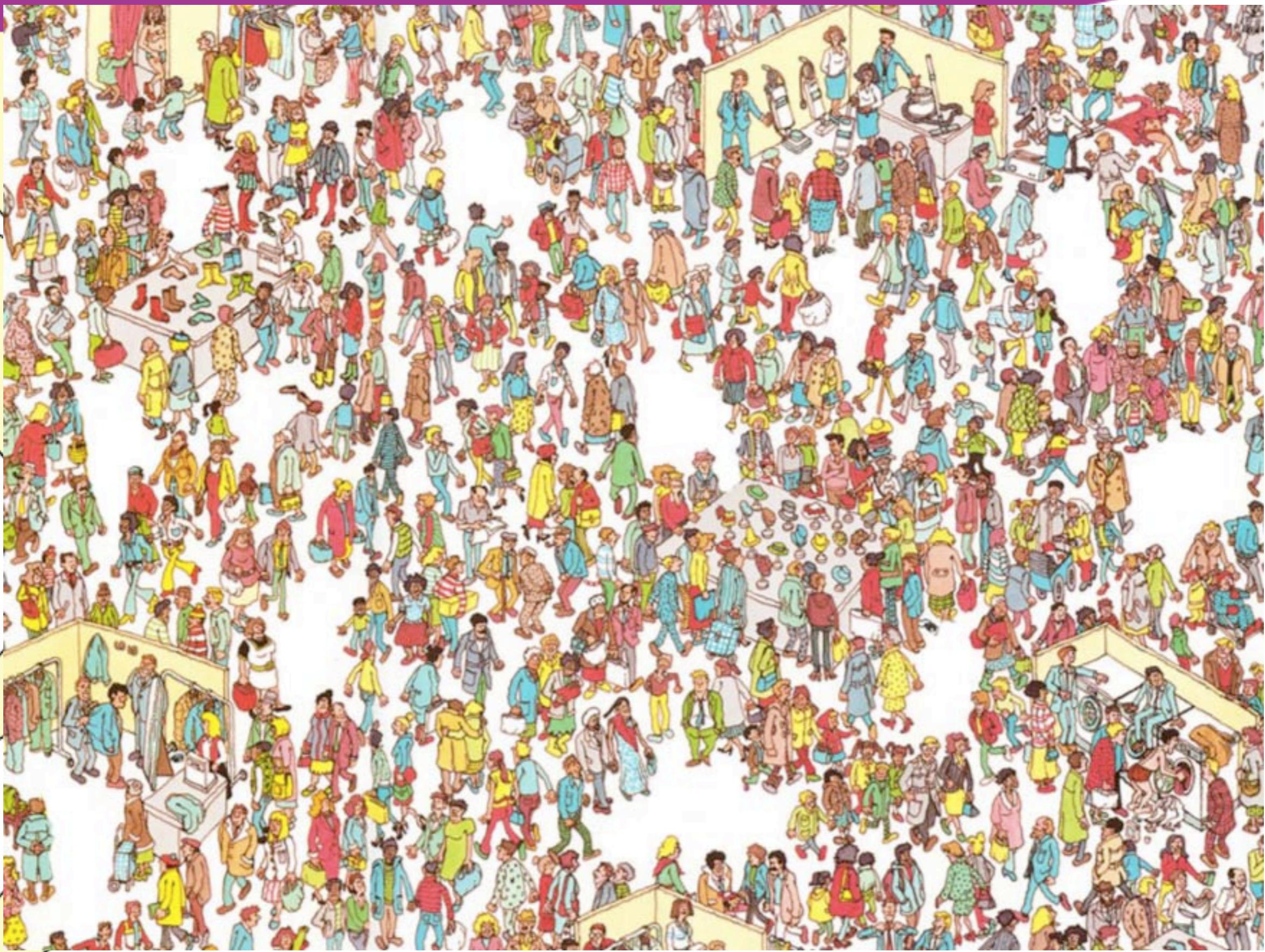


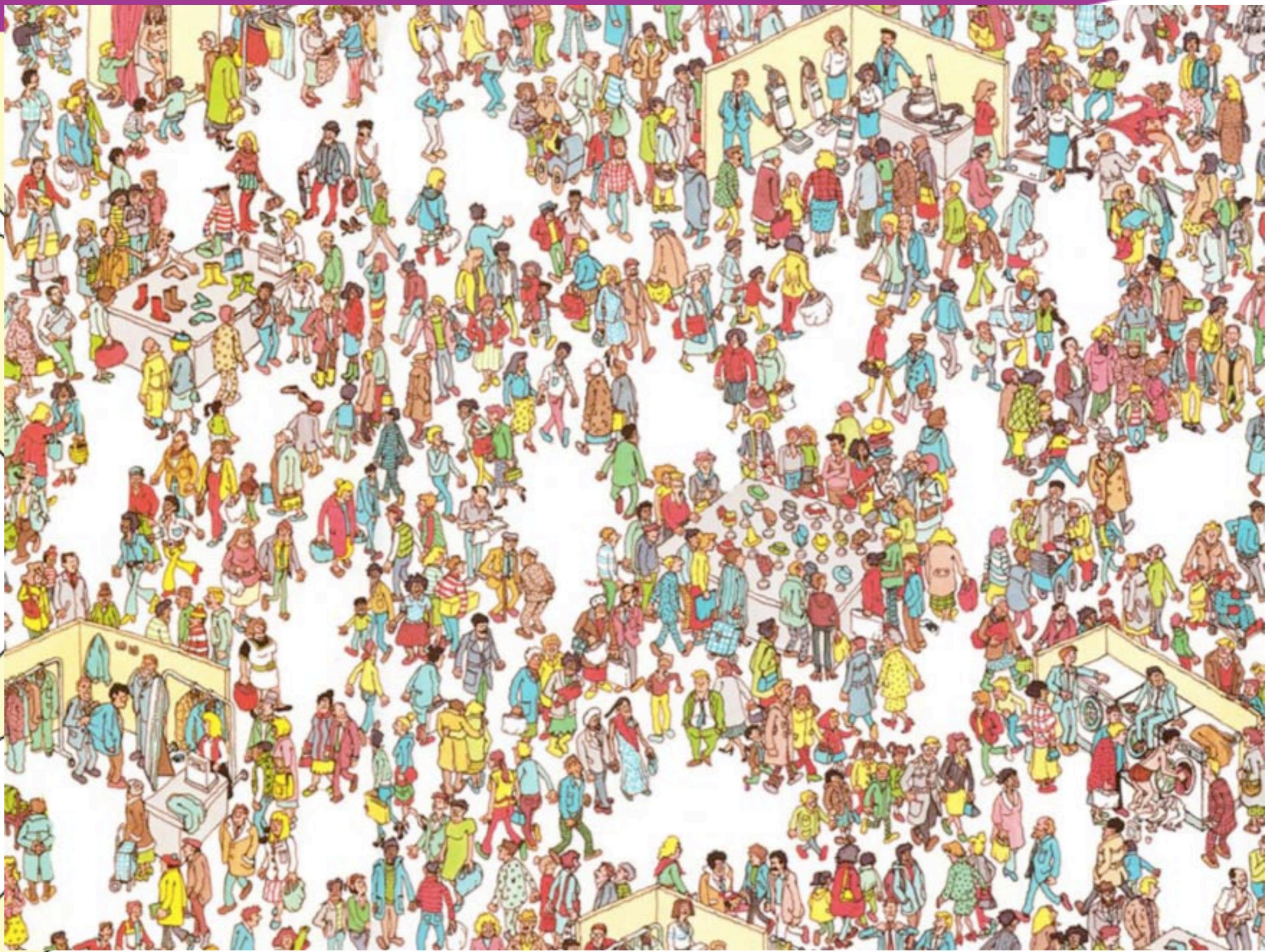
# Removing Clutter

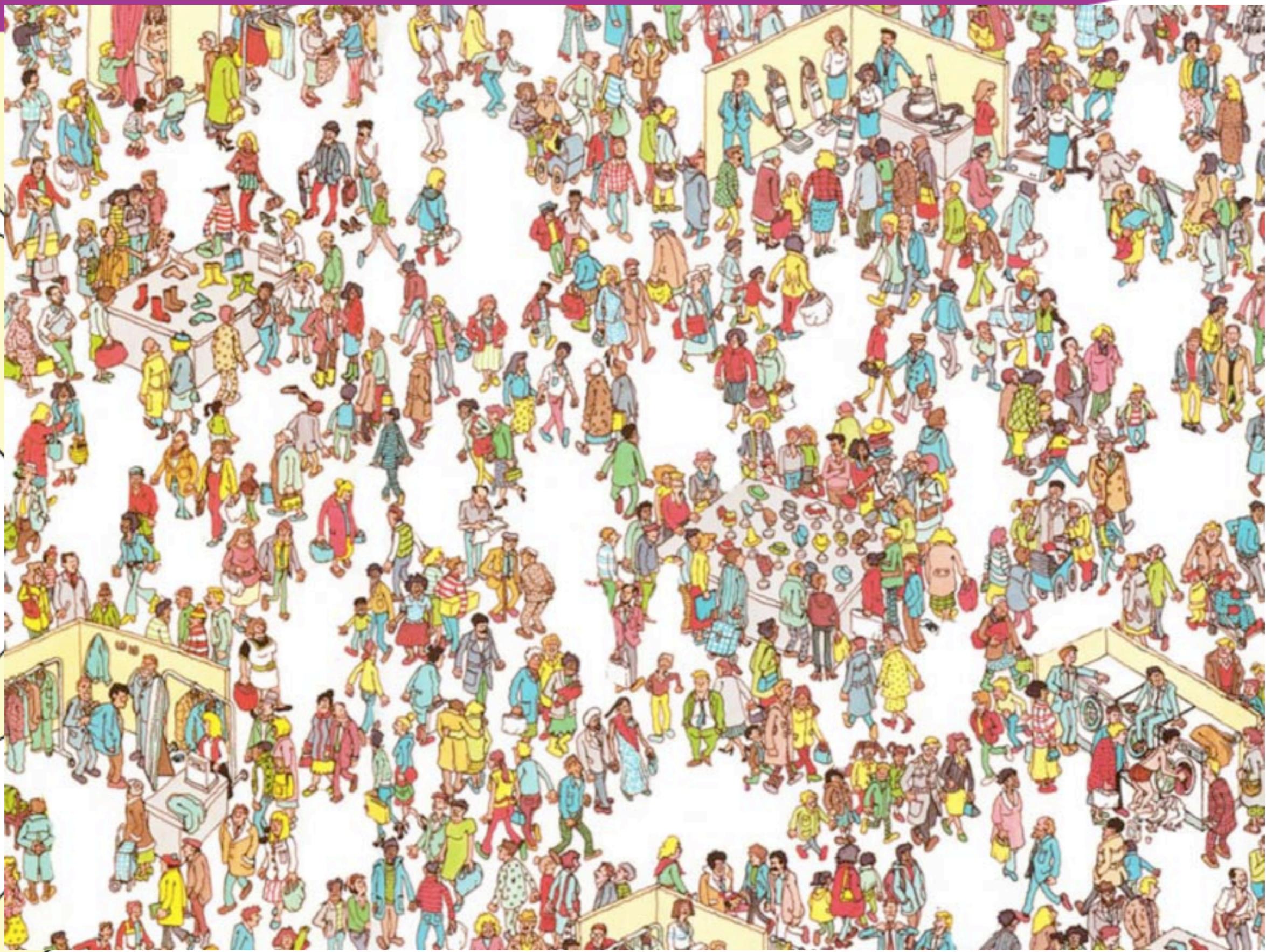
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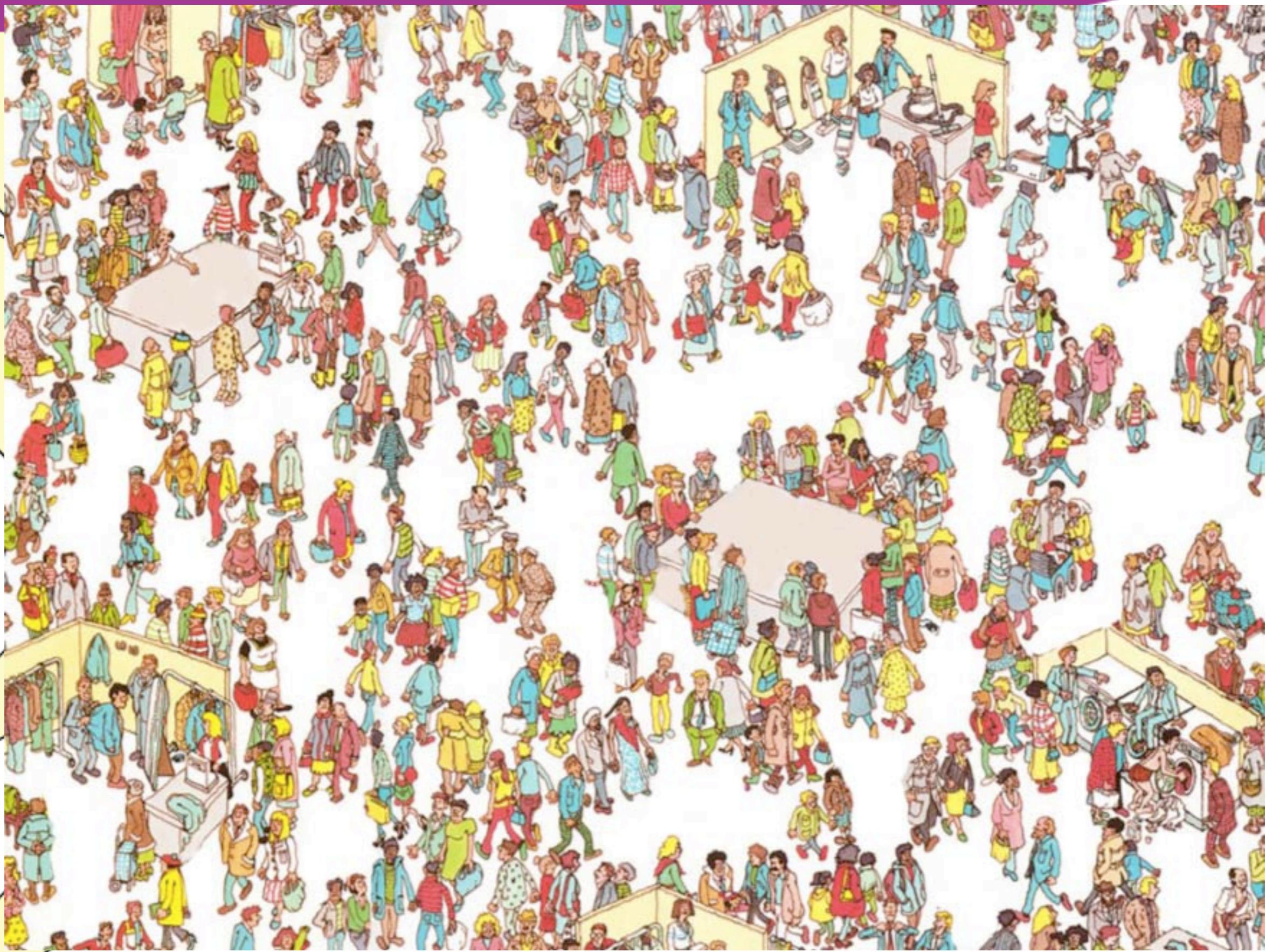
- ▶ Format your code
- ▶ Delete comments
- ▶ Delete dead code
- ▶ Delete unnecessary code

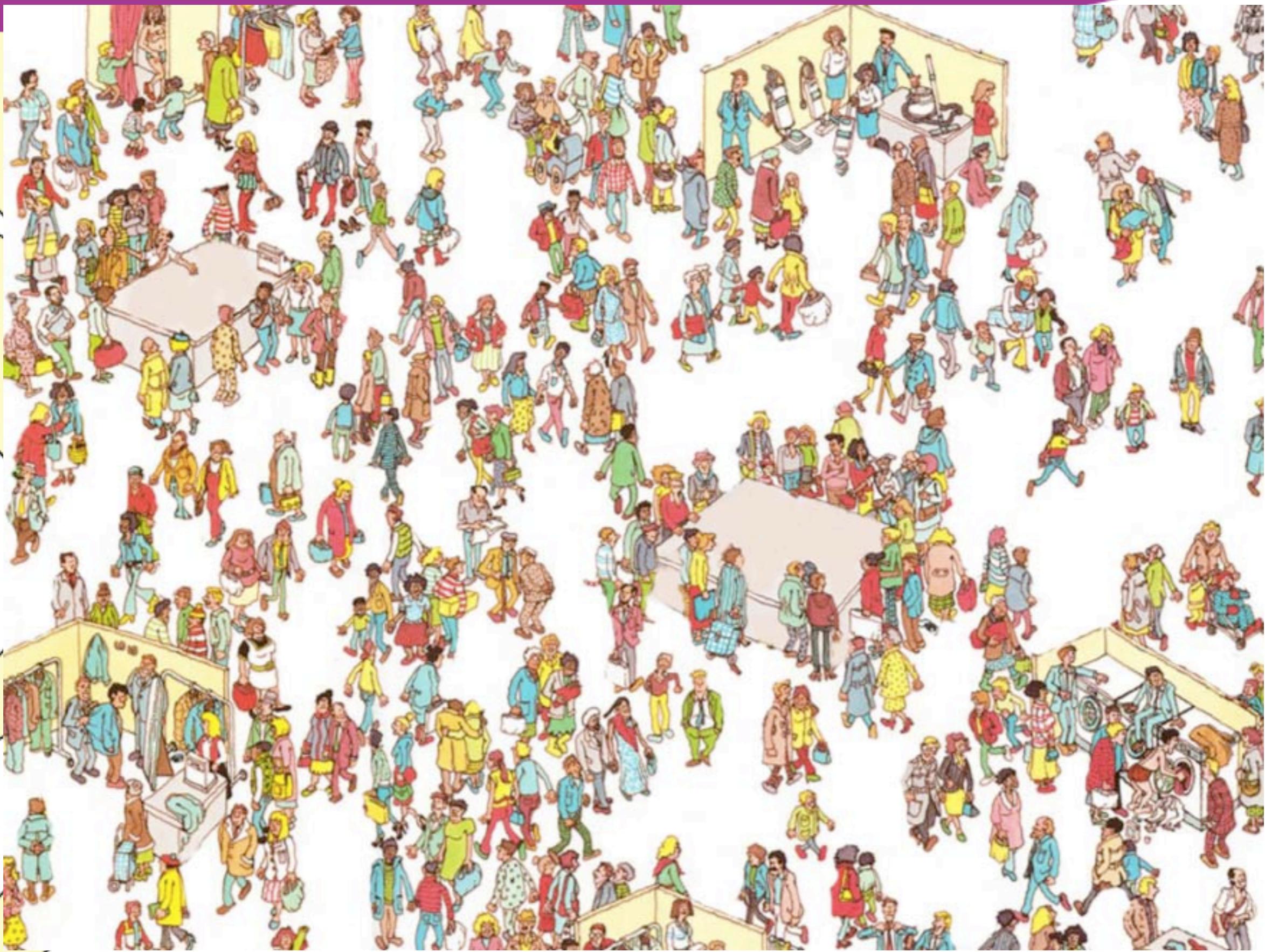


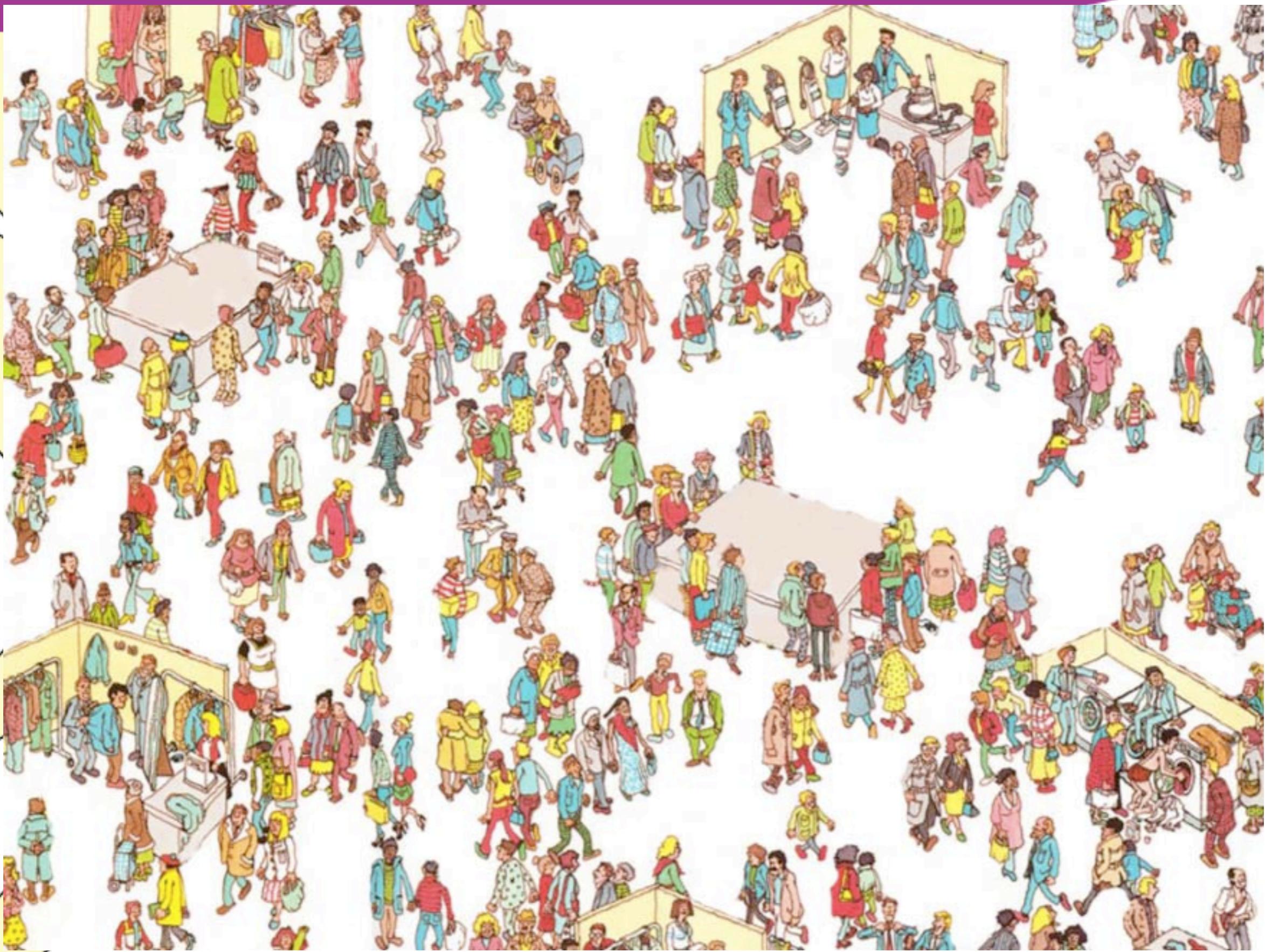


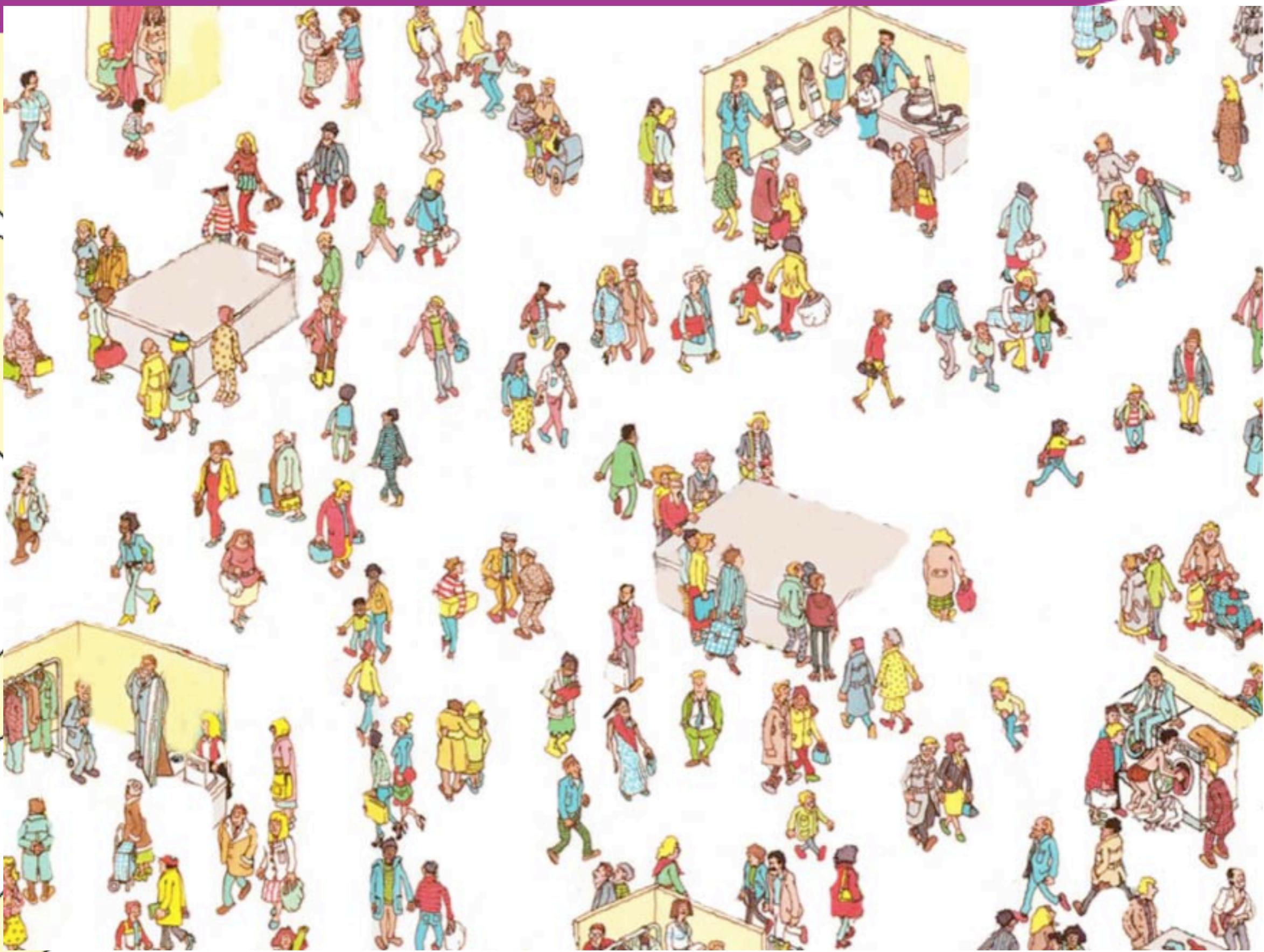




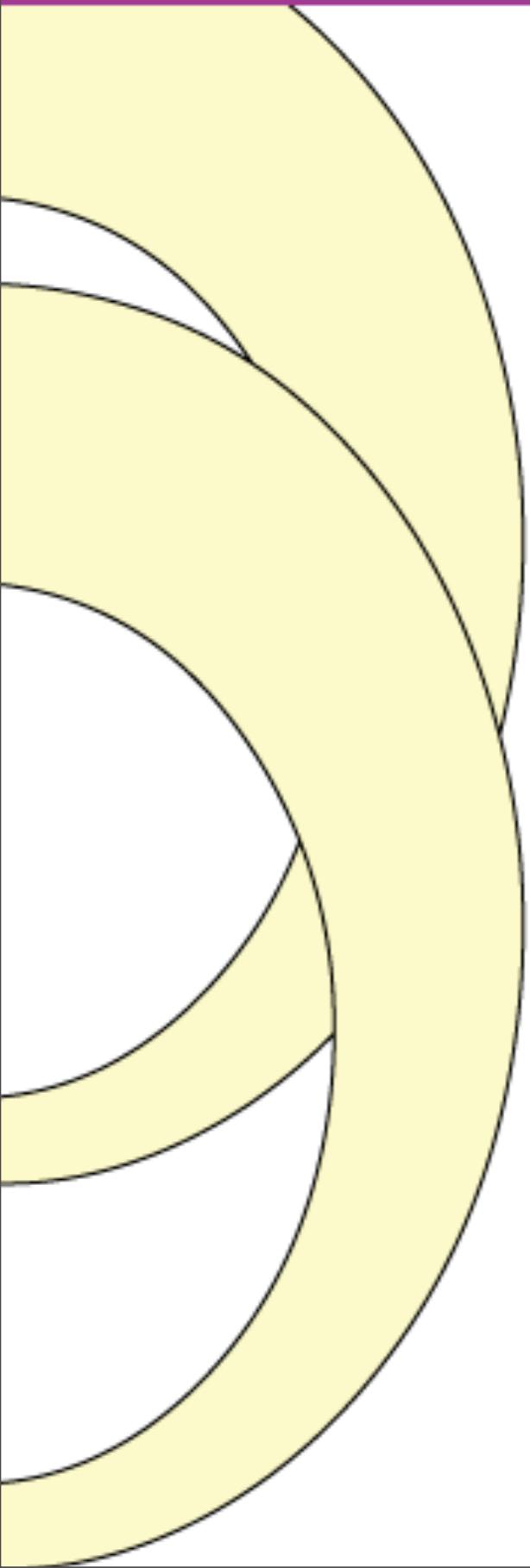








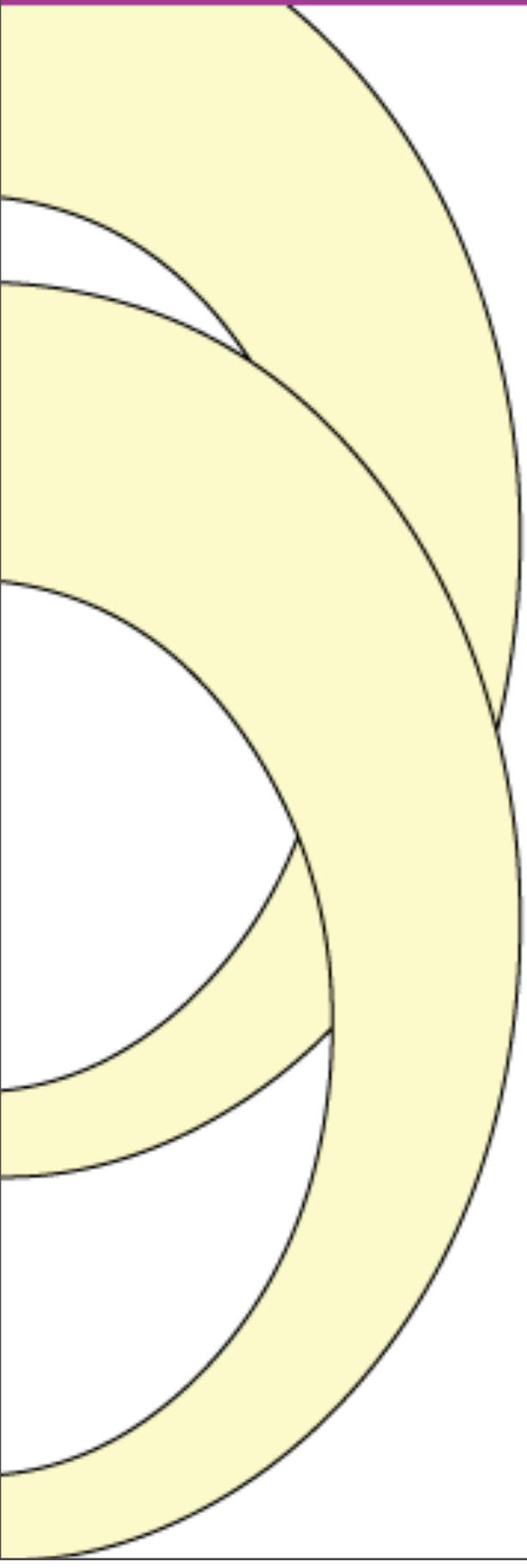




# Removing Complexity

# Removing Complexity

- ▶ Bad Names

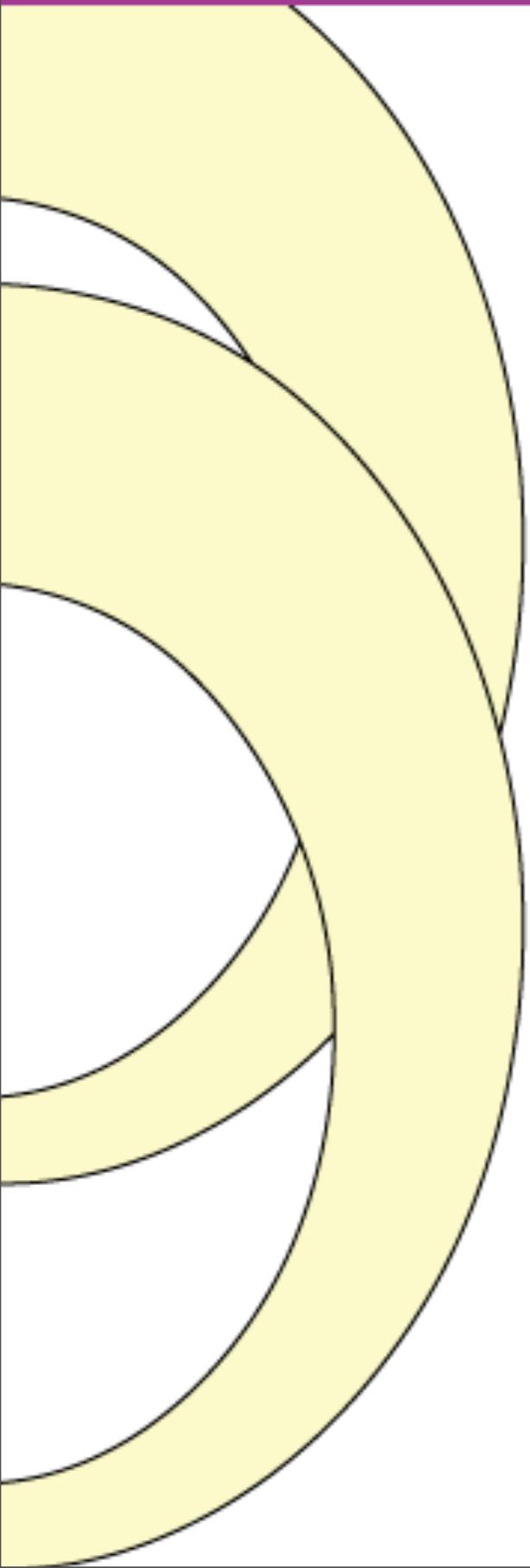


# Removing Complexity

- ▶ Bad Names
- ▶ Long Methods

# Removing Complexity

- ▶ Bad Names
- ▶ Long Methods
- ▶ Deep Conditionals (if/for/while/switch)



# Removing Complexity

- ▶ Bad Names
- ▶ Long Methods
- ▶ Deep Conditionals (if/for/while/switch)
- ▶ Magic Numbers

# Removing Complexity

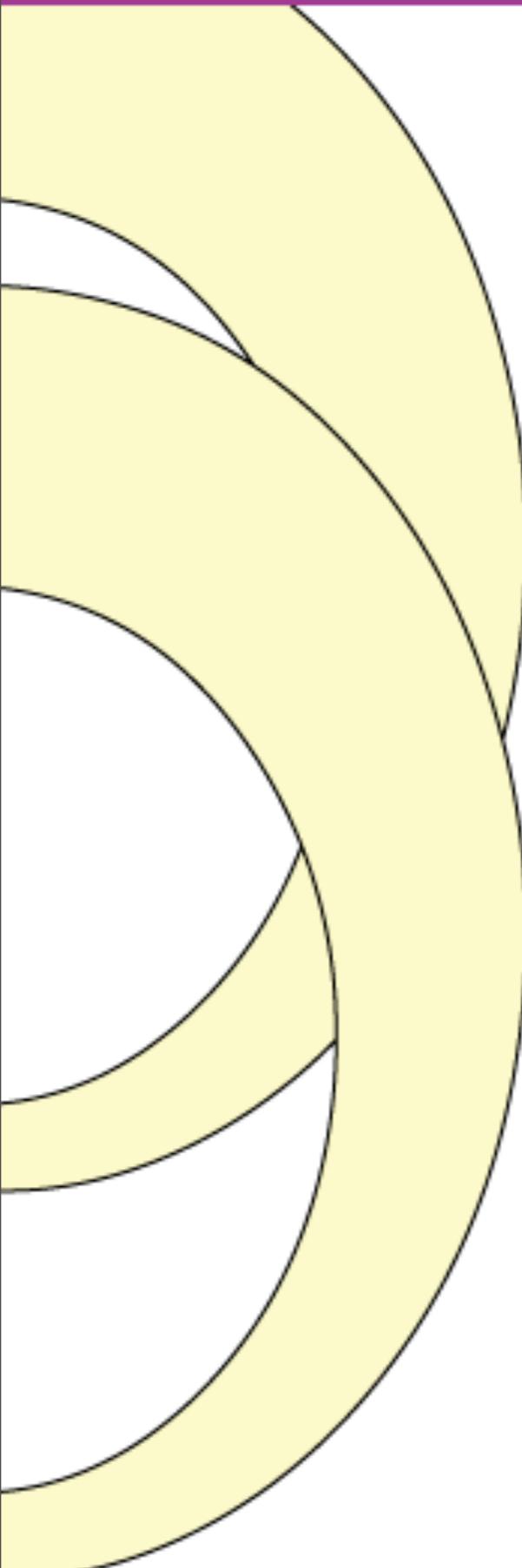
- ▶ Bad Names
- ▶ Long Methods
- ▶ Deep Conditionals (if/for/while/switch)
- ▶ Magic Numbers
- ▶ Improper Variable Scoping

# Removing Complexity

- ▶ Bad Names
- ▶ Long Methods
- ▶ Deep Conditionals (if/for/while/switch)
- ▶ Magic Numbers
- ▶ Improper Variable Scoping
- ▶ Missing Encapsulation

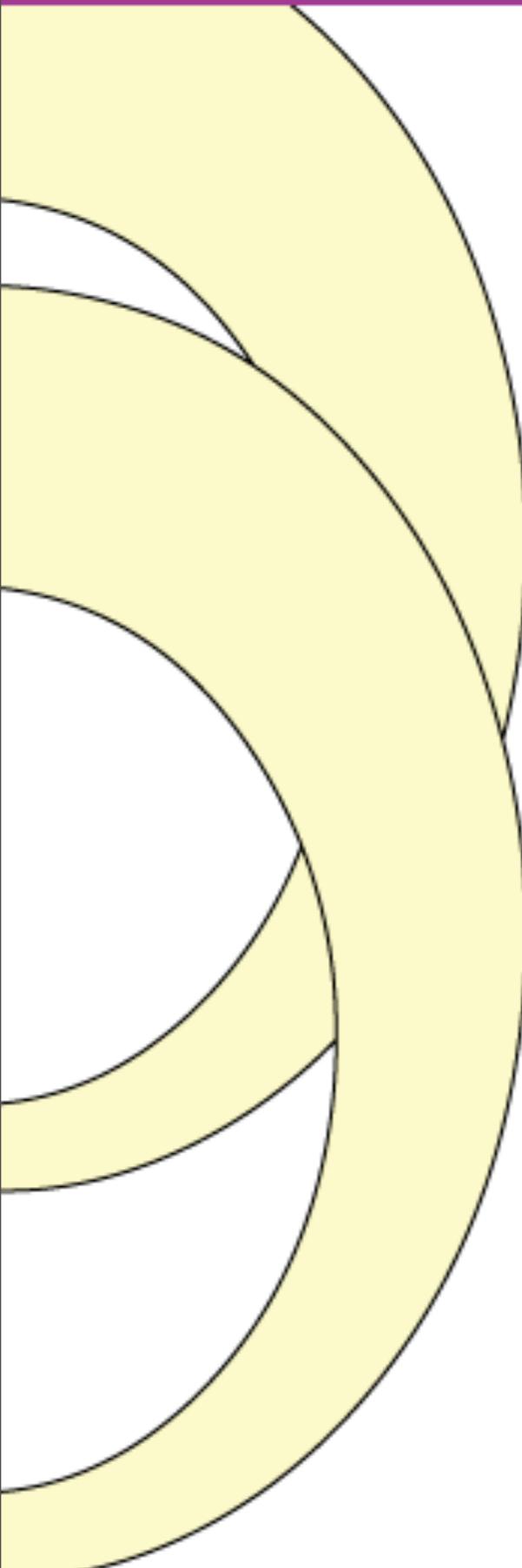
# Removing Complexity

- ▶ Bad Names
- ▶ Long Methods
- ▶ Deep Conditionals (if/for/while/switch)
- ▶ Magic Numbers
- ▶ Improper Variable Scoping
- ▶ Missing Encapsulation
- ▶ Obscure Code Blocks



# Removing Cleverness

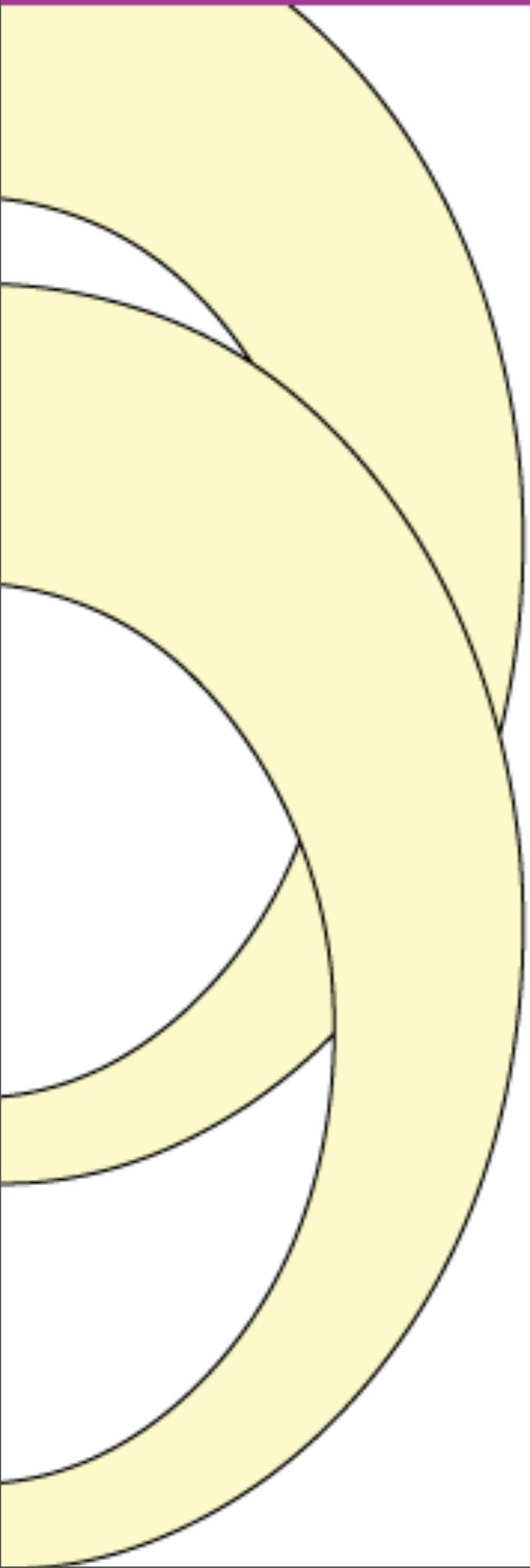
“If it’s simple and elegant, you wouldn’t refer to it  
as ‘clever’”



# Removing Cleverness

“If it’s simple and elegant, you wouldn’t refer to it  
as ‘clever’”

- ▶ Cryptic Code



# Removing Cleverness

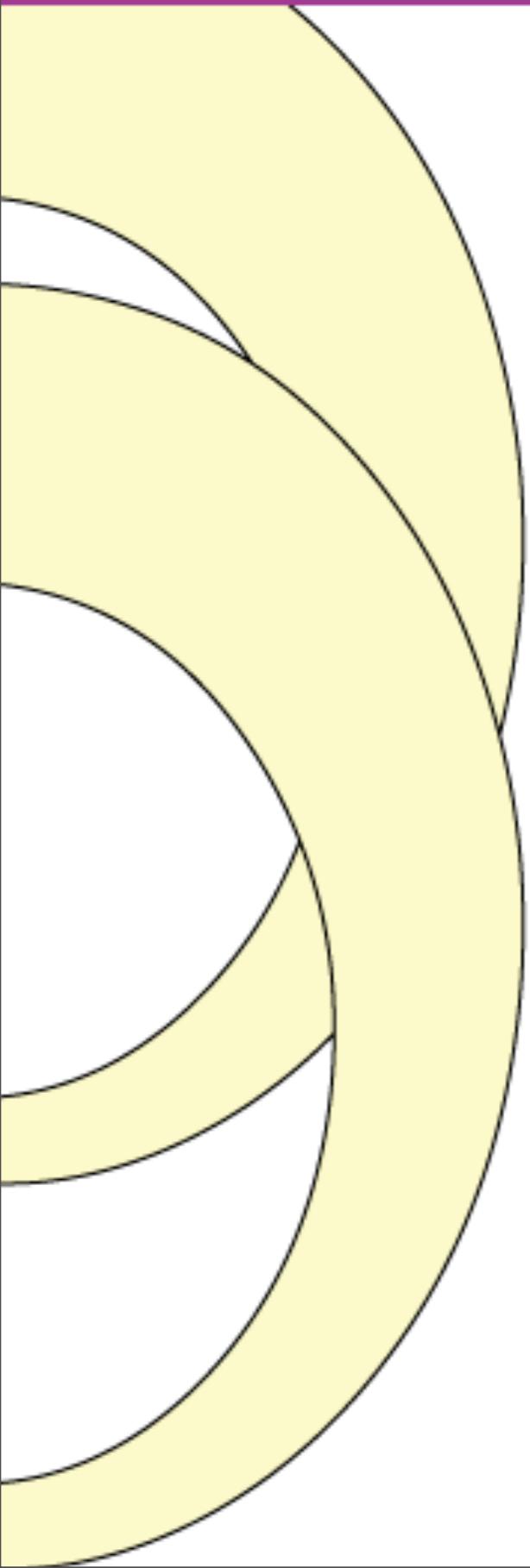
“If it’s simple and elegant, you wouldn’t refer to it  
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- ▶ Cryptic Code
- ▶ Abbreviated Code

# Removing Cleverness

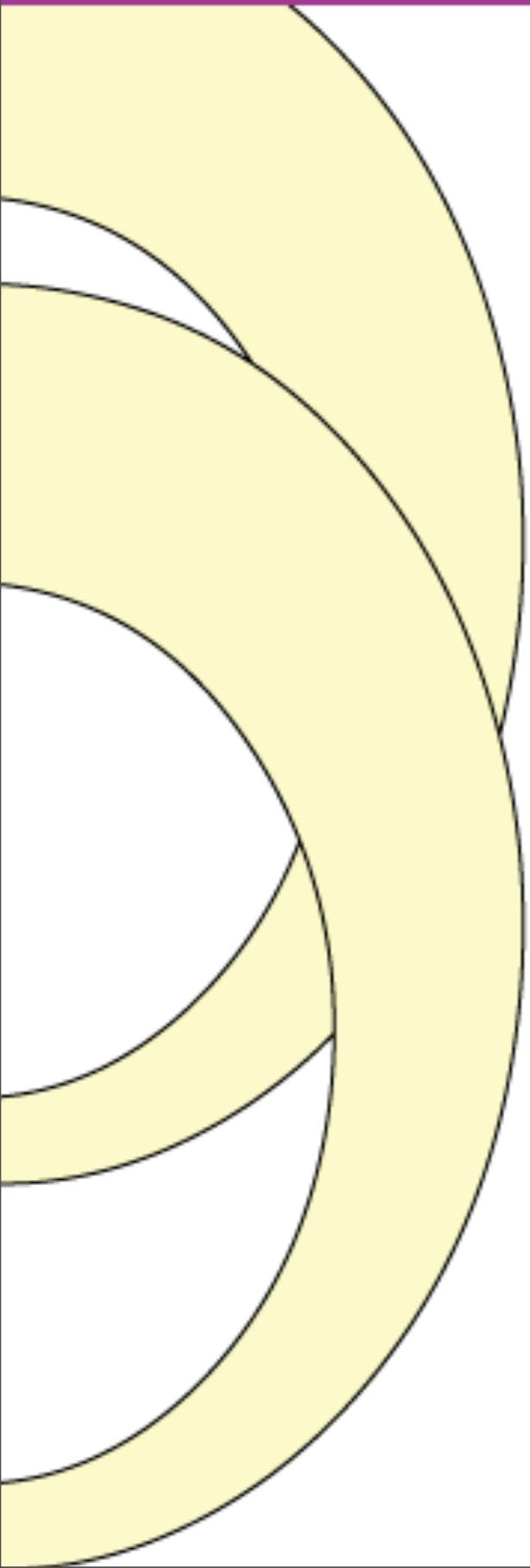
“If it’s simple and elegant, you wouldn’t refer to it as ‘clever’”

- ▶ Cryptic Code
- ▶ Abbreviated Code
- ▶ Hijacking a Method(changing its intent for your own purposes)



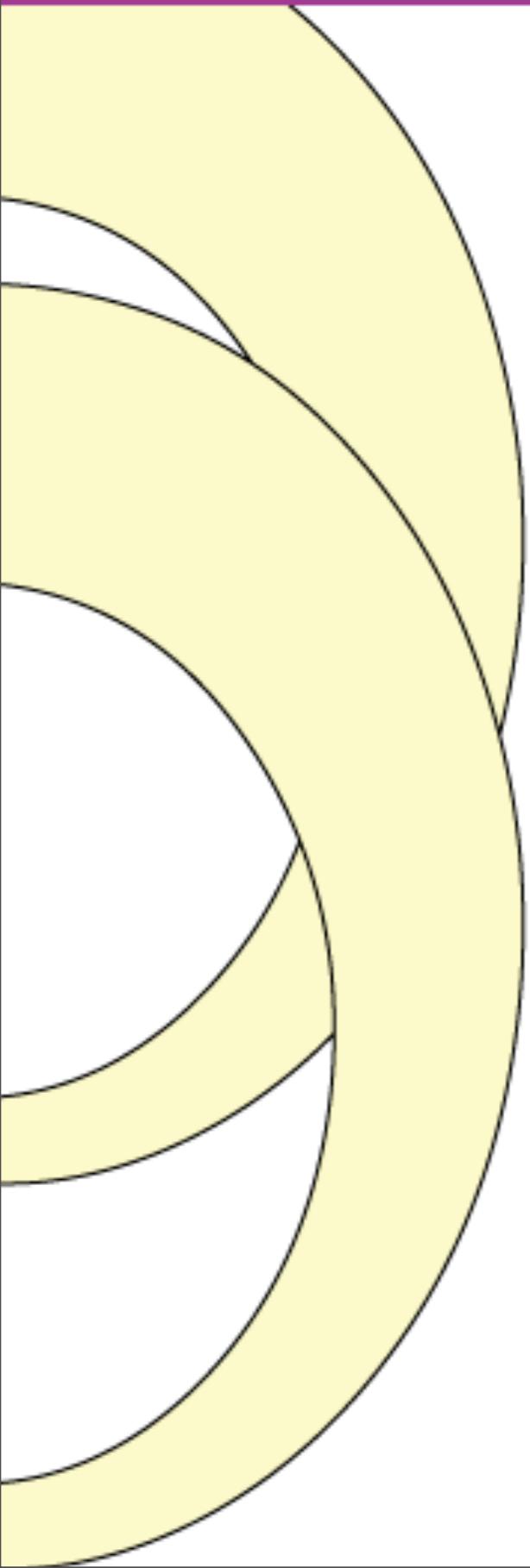
A large, stylized yellow circle is located on the left side of the slide, partially overlapping the white area. It has a thin black outline and a soft, rounded shape, resembling a stylized flower or a sun.

... and the 3 D's



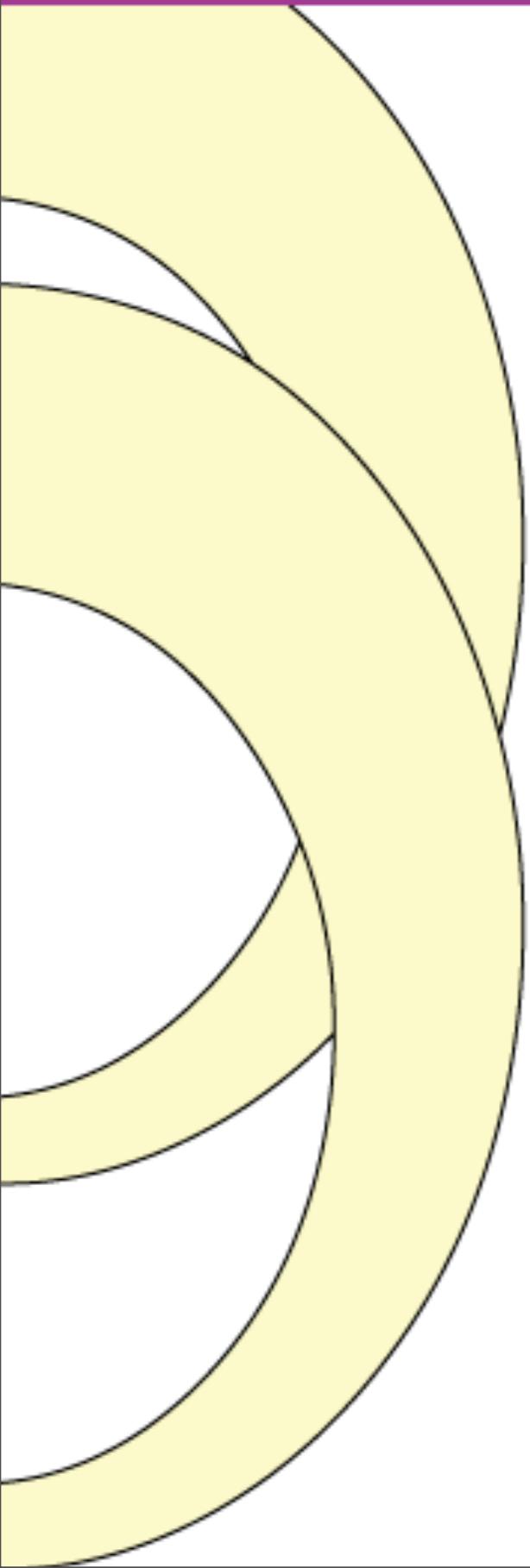
... and the 3 D's

- ▶ Duplication



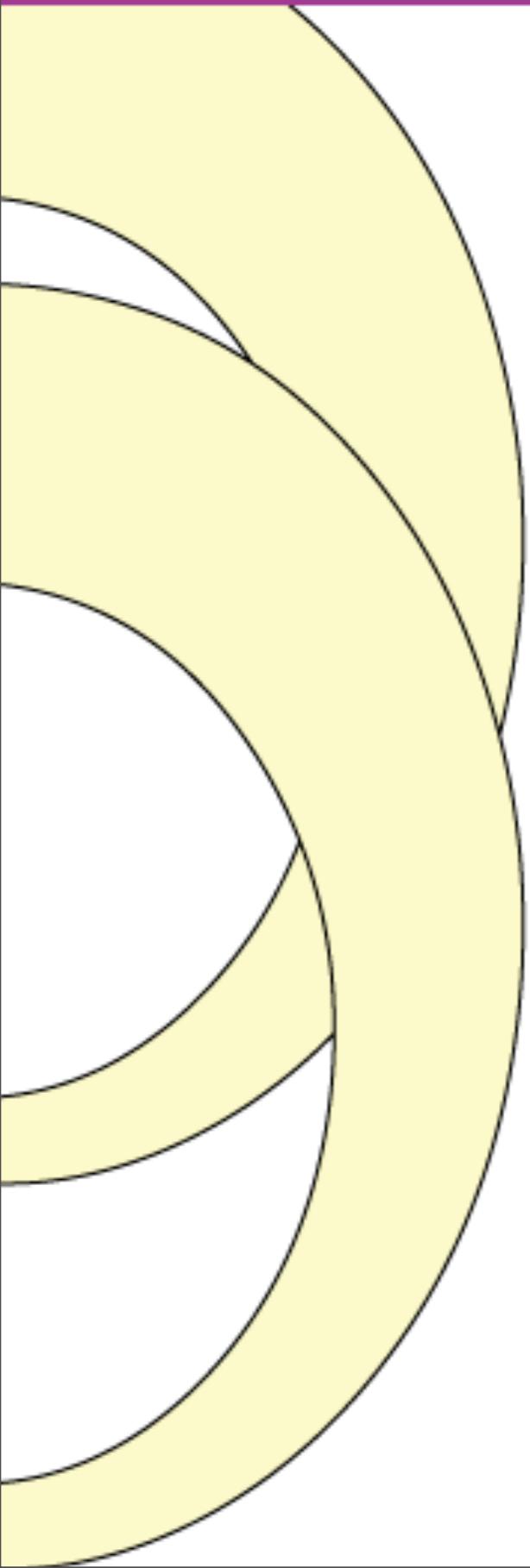
... and the 3 D's

- ▶ Duplication
- ▶ Duplication

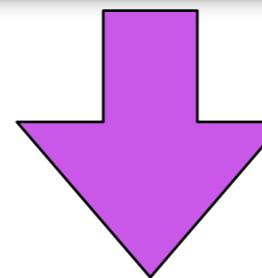


... and the 3 D's

- ▶ Duplication
- ▶ Duplication
- ▶ Duplication



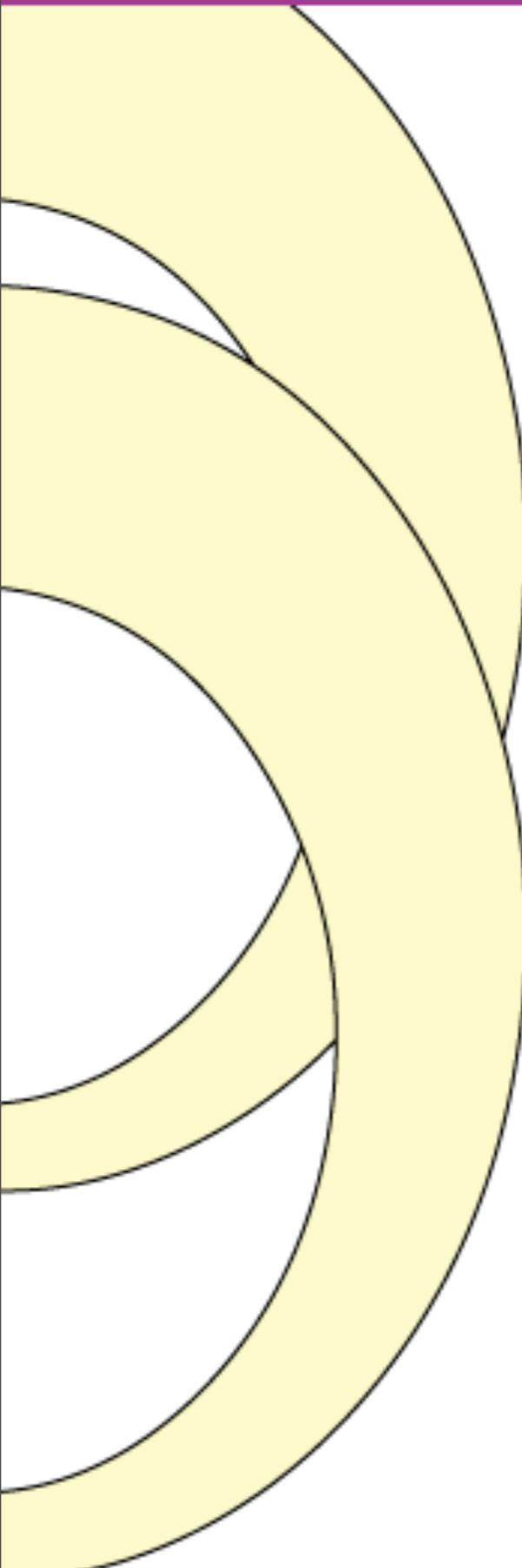
Our code base is just  
a big mess, and no  
one is happy working  
in it.



# Next Steps

: - )

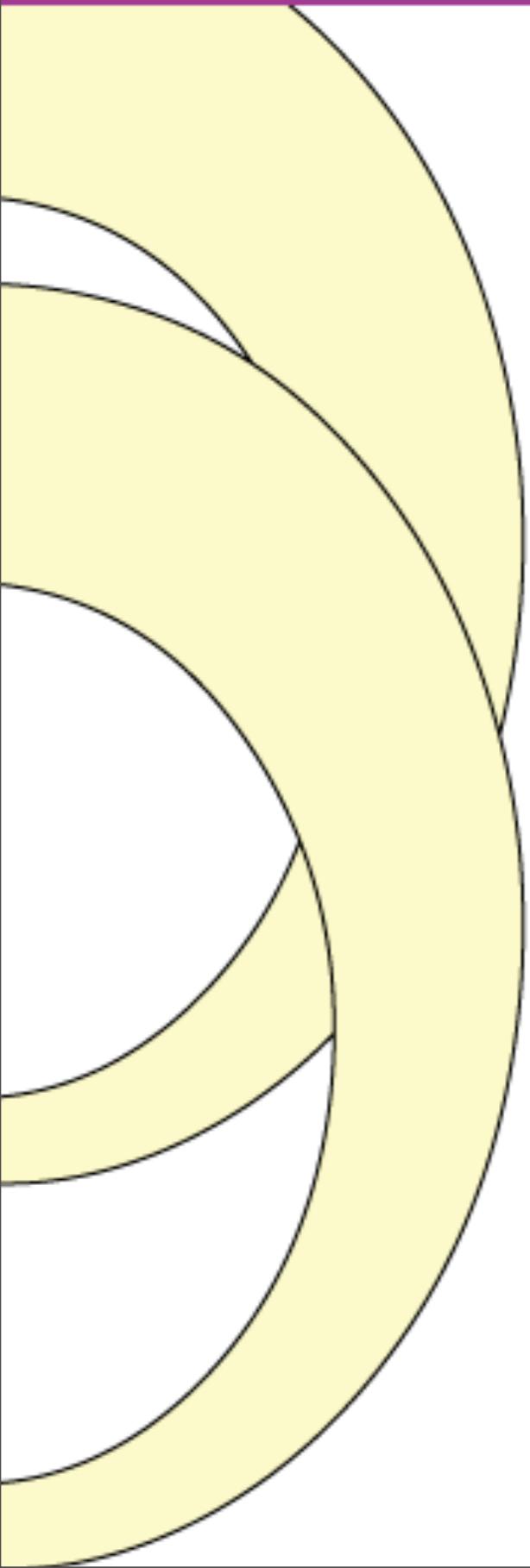
1-2



## Next Steps

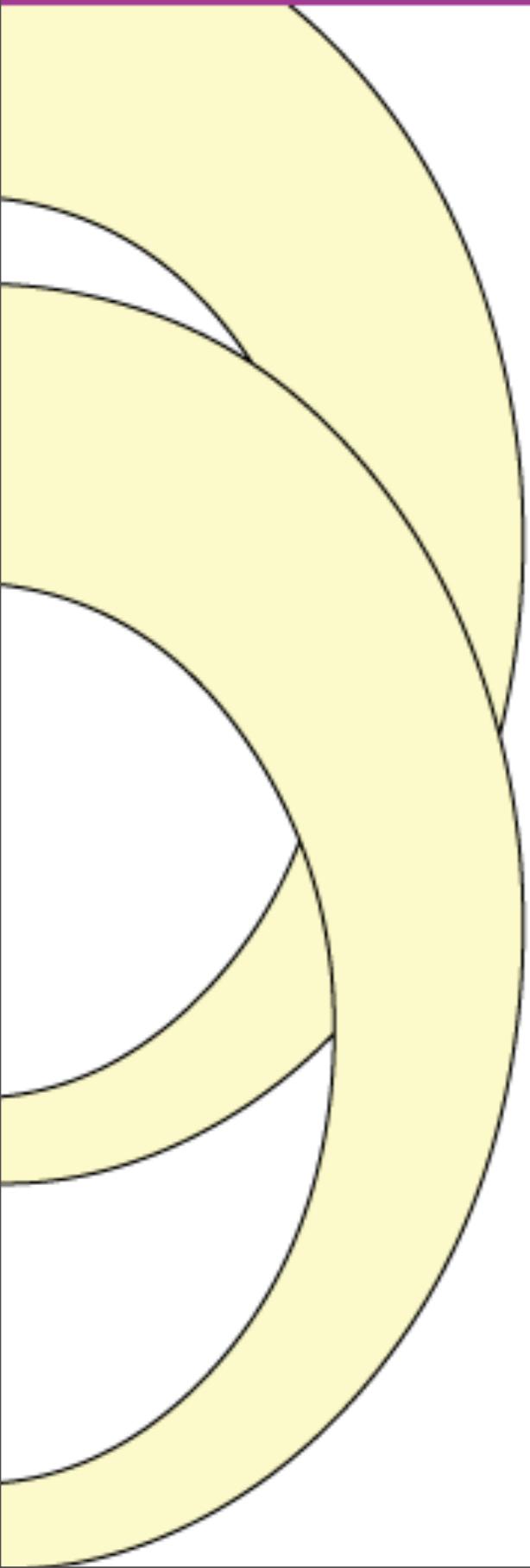
Spring Cleaning Week - Start each task with 25 minutes of cleaning with a co-worker.

:-)

A large, stylized graphic element on the left side of the slide. It consists of several overlapping circles and ovals in a pale yellow color. The shapes are roughly circular and overlap each other, creating a layered effect. They are contained within a larger, thin-lined circle.

# Next Steps

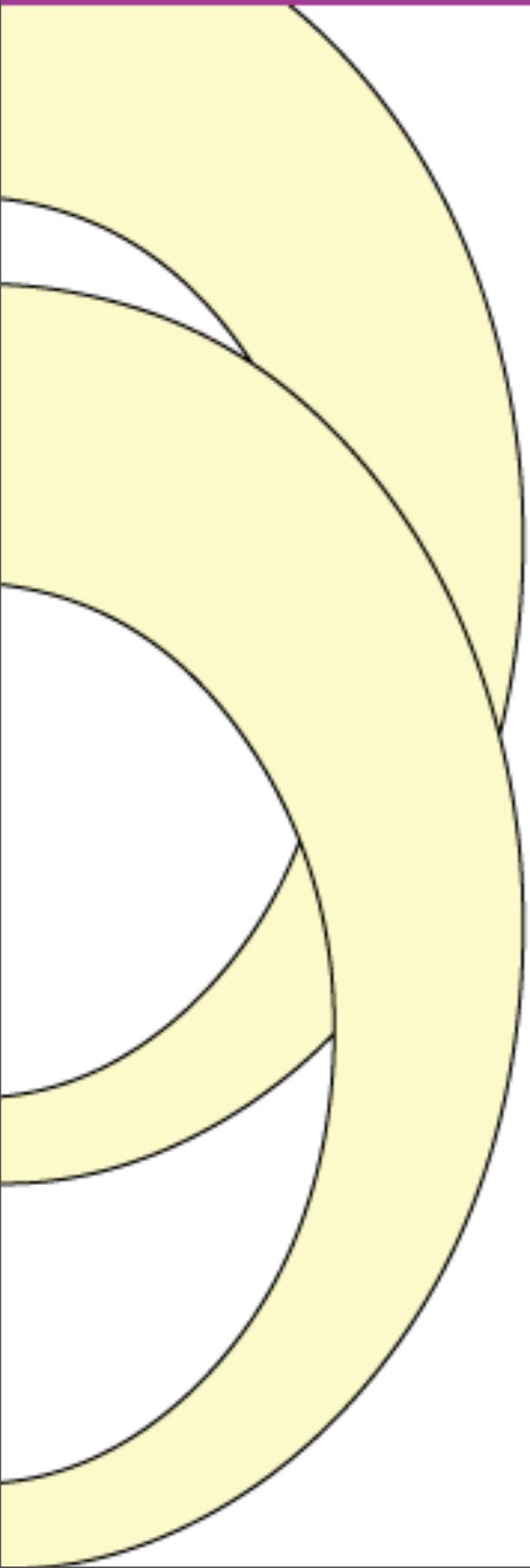
2-2



# Next Steps

## Books

2-2



# Next Steps

Books

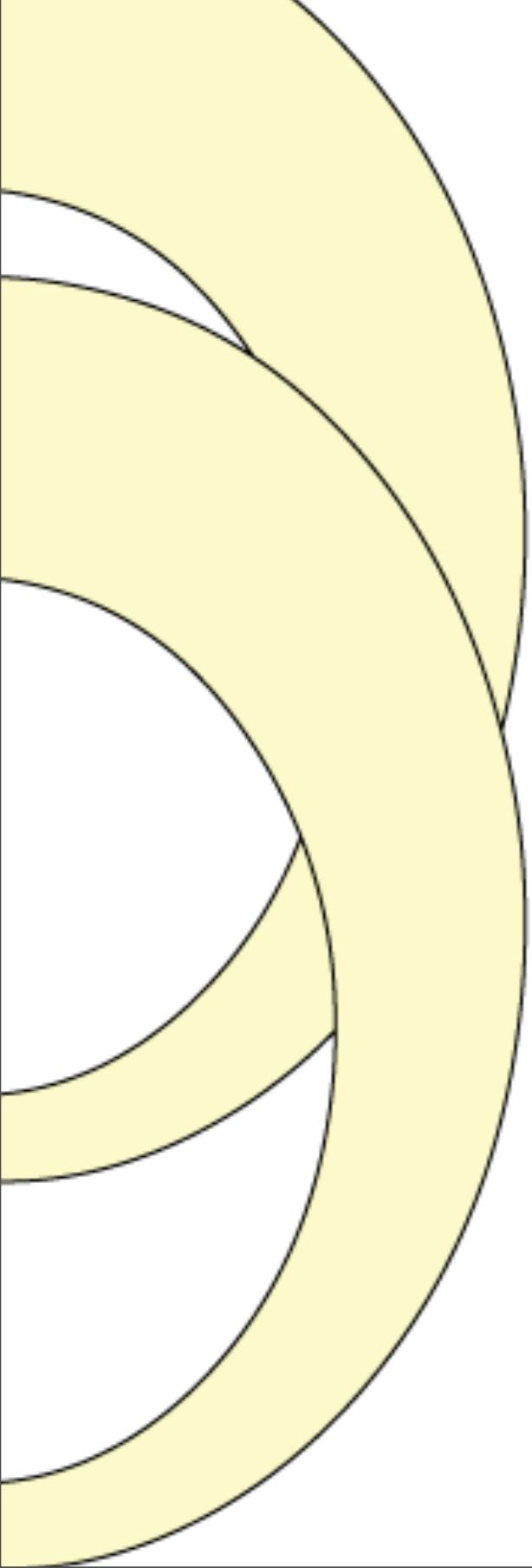
**'Clean Code'** by *Robert Martin*

# Next Steps

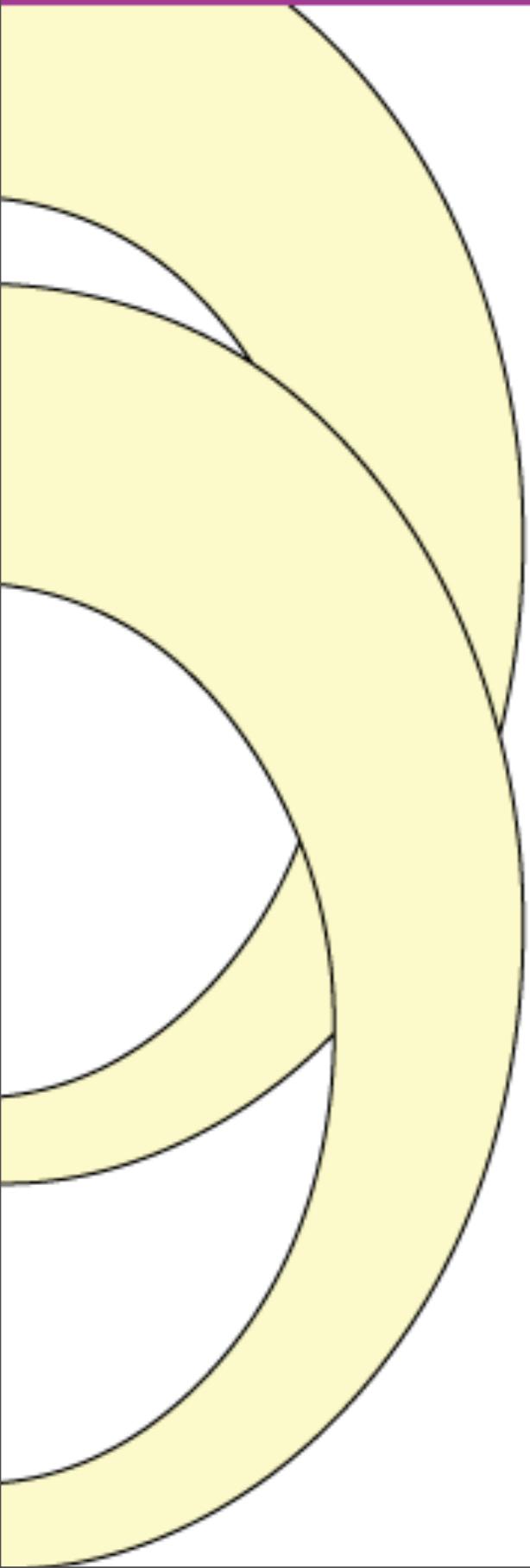
Books

**'Clean Code'** by *Robert Martin*

**'Working Effectively with Legacy Code'** by *Michael Feathers*

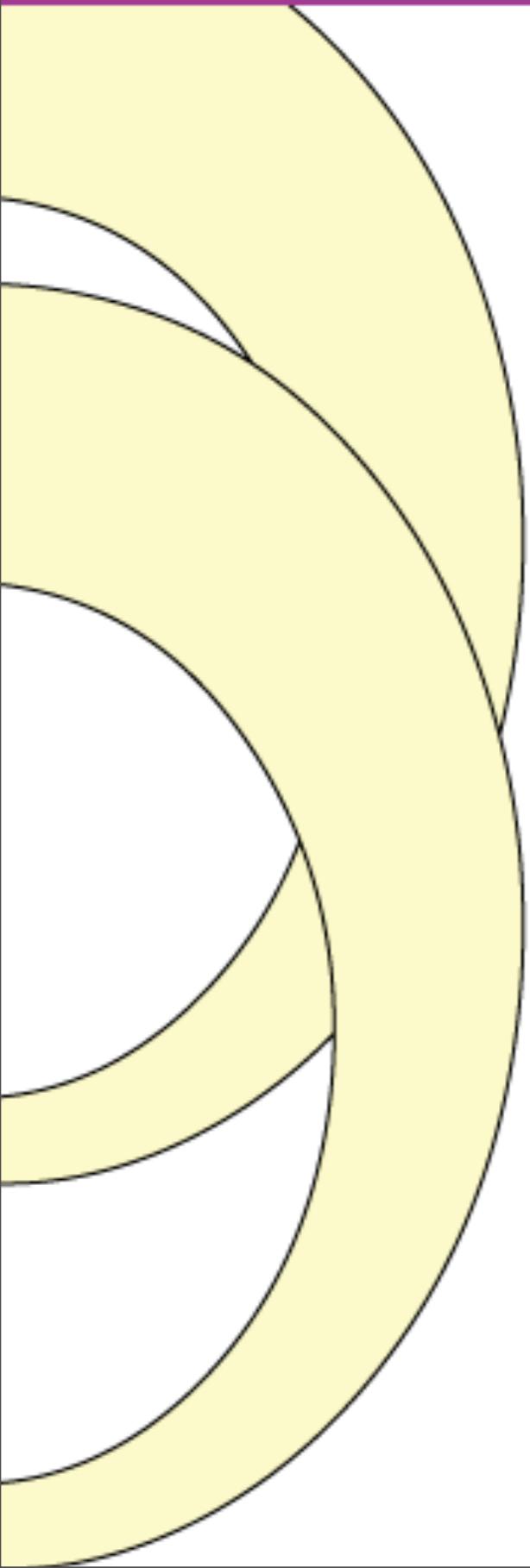


# What we offer



## What we offer

- **Day Classes** on site
  - Single day class to educate & train employees on a single aspect of agile



# What we offer

- **Day Classes** on site
  - Single day class to educate & train employees on a single aspect of agile
- **On site Coaching**
  - Minimum 2 weeks working on site with employees on their stuff.
  - Training/Mentoring
  - Setup of framework
    - Source Control
    - Automated Builds
    - Continuous integration
    - Work environment

[www.ApprovalTests.com](http://www.ApprovalTests.com)

check here for more information  
about how we actually tested the code

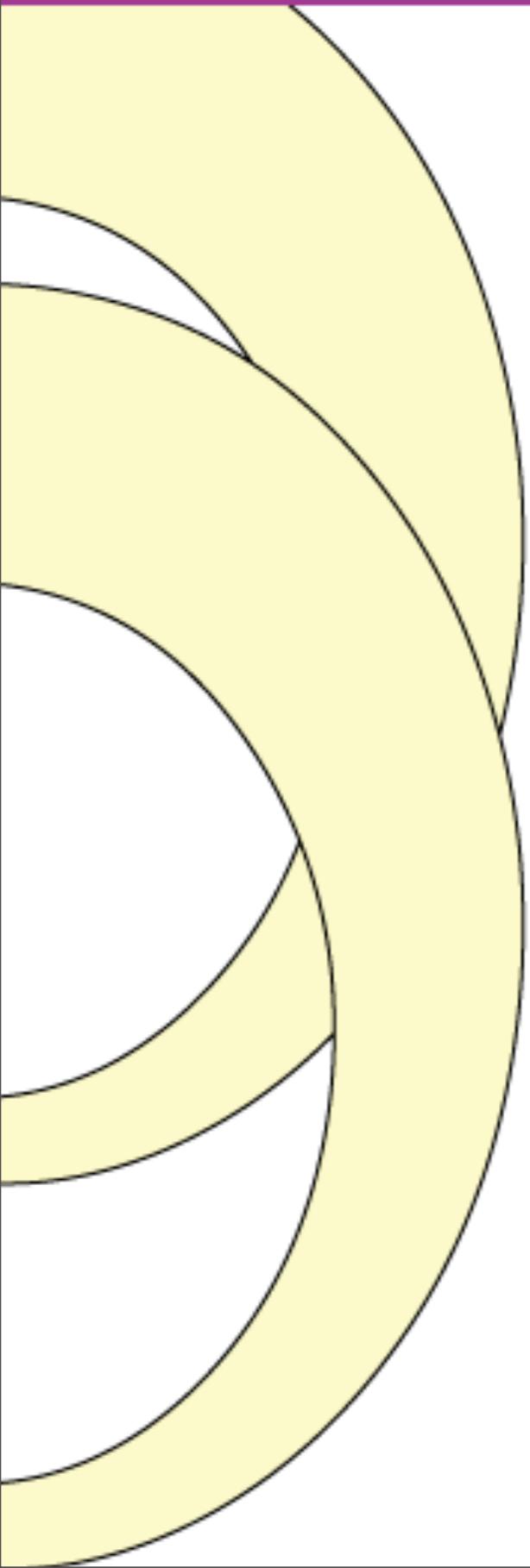
# Contact



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wzuill@yahoo.com

**Llewellyn Falco**  
info@spunlabs.com





Goal:  
**Simple Techniques  
for Code Excellence**