

ThoughtWorks®

**COMPLEX IS EASY,
IT'S SIMPLE WHICH IS HARD**

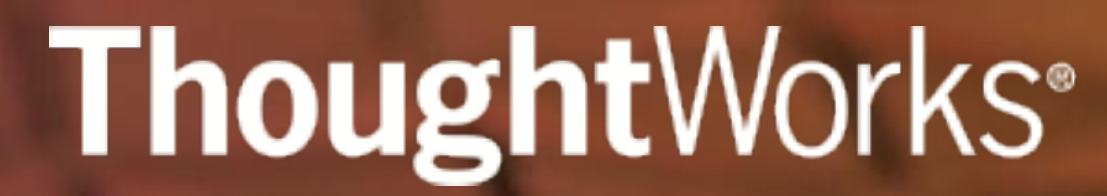
A portrait of Sarah Taraporewalla, a woman with dark hair, smiling. She is wearing a blue and orange floral patterned top. The background is a blurred office interior with warm lighting and large windows.

**SARAH
TARAPOREWALLA**
TECH PRINCIPAL

ThoughtWorks®  @sarahtarap

Let's Explore

- 1 Complexity in the Real World
- 2 How does it happen?
- 3 The One About The Checkbox
- 4 The One About The Fortress
- 5 The One About The Article
- 6 The One about the Pricing Rules

The ThoughtWorks logo is positioned at the top center of the slide. It features the word "Thought" in a bold, sans-serif font, followed by "Works" in a regular weight of the same font. A registered trademark symbol (®) is located at the top right of the word "Works". The background of the slide is a close-up photograph of a woven fabric, likely a basket or bag, with a complex, interlocking diamond pattern. The lighting is warm, creating a range of brown and tan tones that highlight the texture of the material.

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Complexity in the Real World



PARKING GUIDE



	MON-FRI	SAT	SUN
12am			
7am			
8am			
9am			
4pm			
6pm			
8pm			
12am			

PARKING	NO PARKING	NO STOPPING	TOW-AWAY

TO RECOVER IMPOUNDED VEHICLE CALL 3-1-1

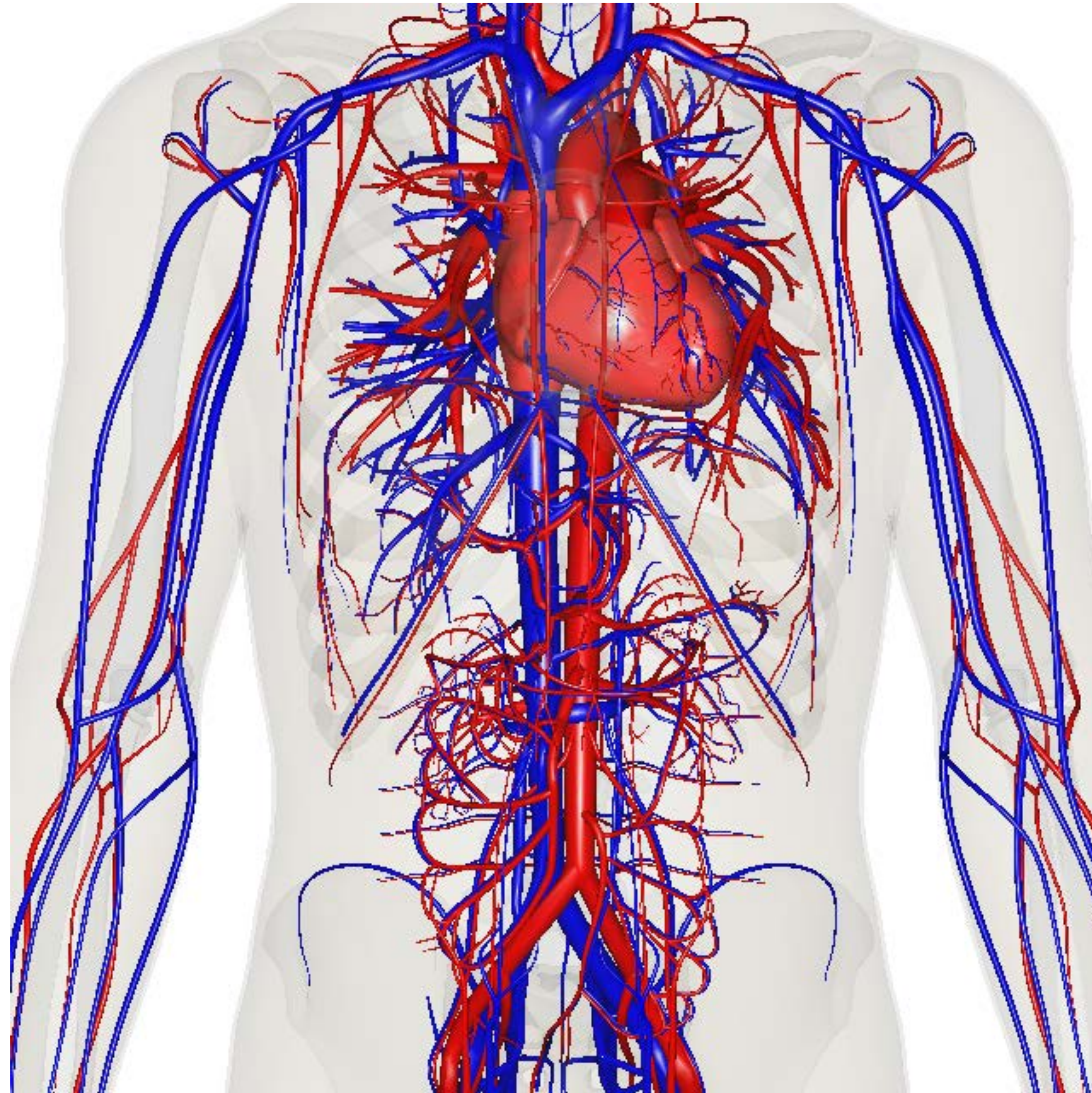


For more information visit parkinginfo.lacity.org



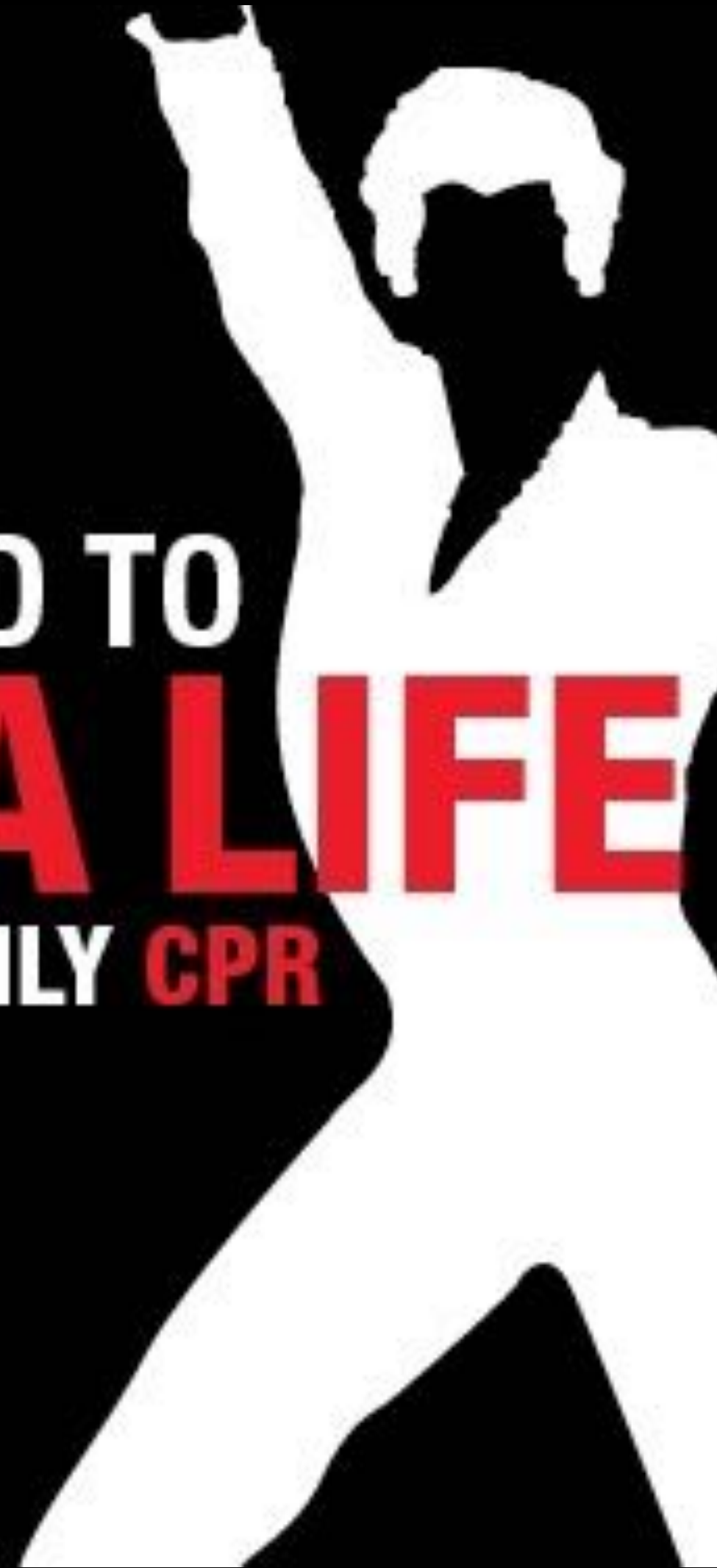
PROPERTY CITY OF LOS ANGELES



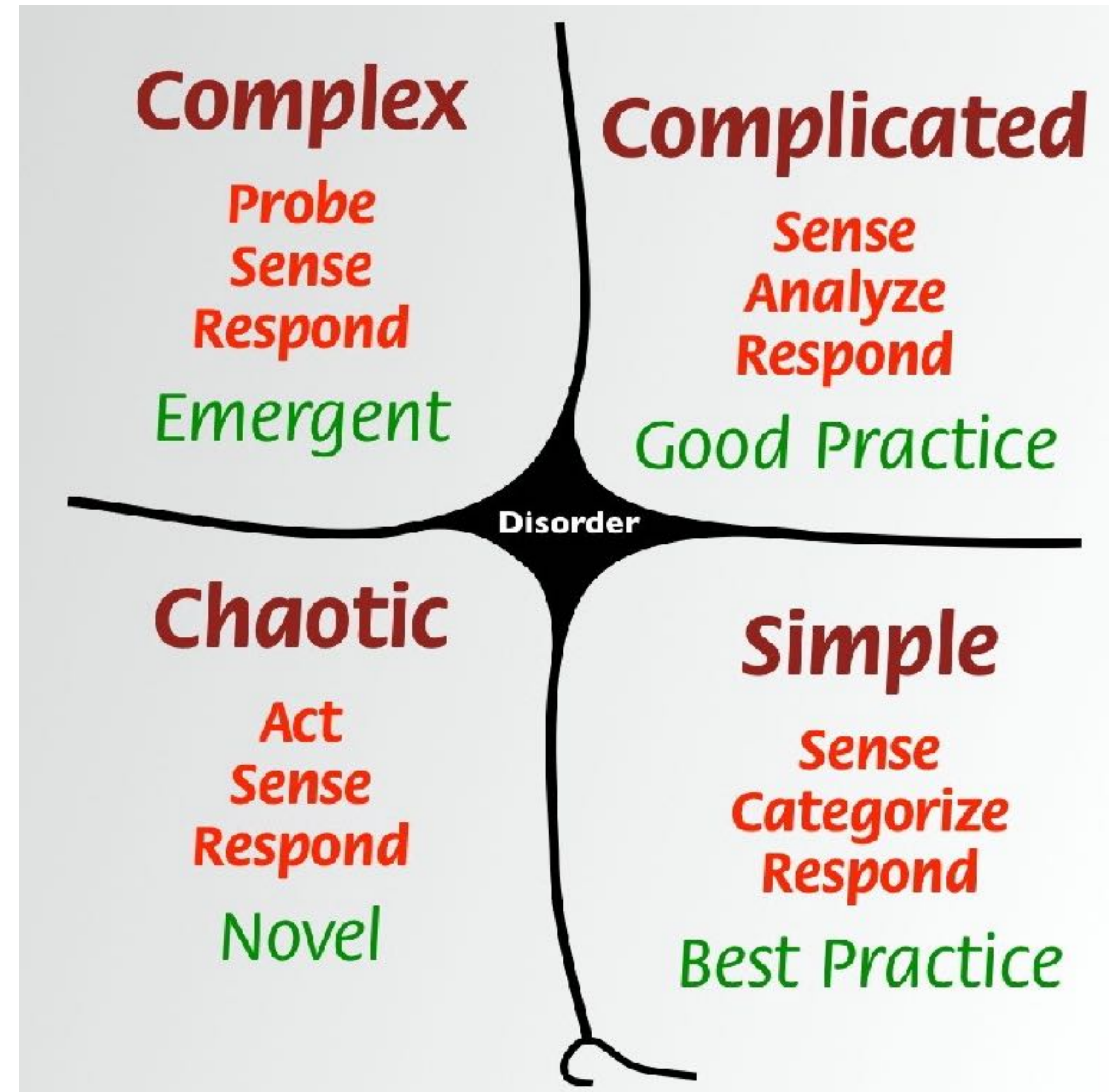




BE PREPARED TO
SAVE A LIFE
LEARN HANDS-ONLY CPR

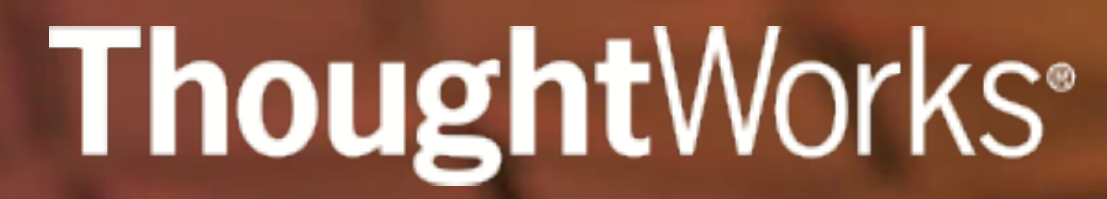


CYNEFIN FRAMEWORK



DAVE SNOWDEN

@snowded

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How does it happen?

2 6 8

2

6

8

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8

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7

2

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1

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4

2

5

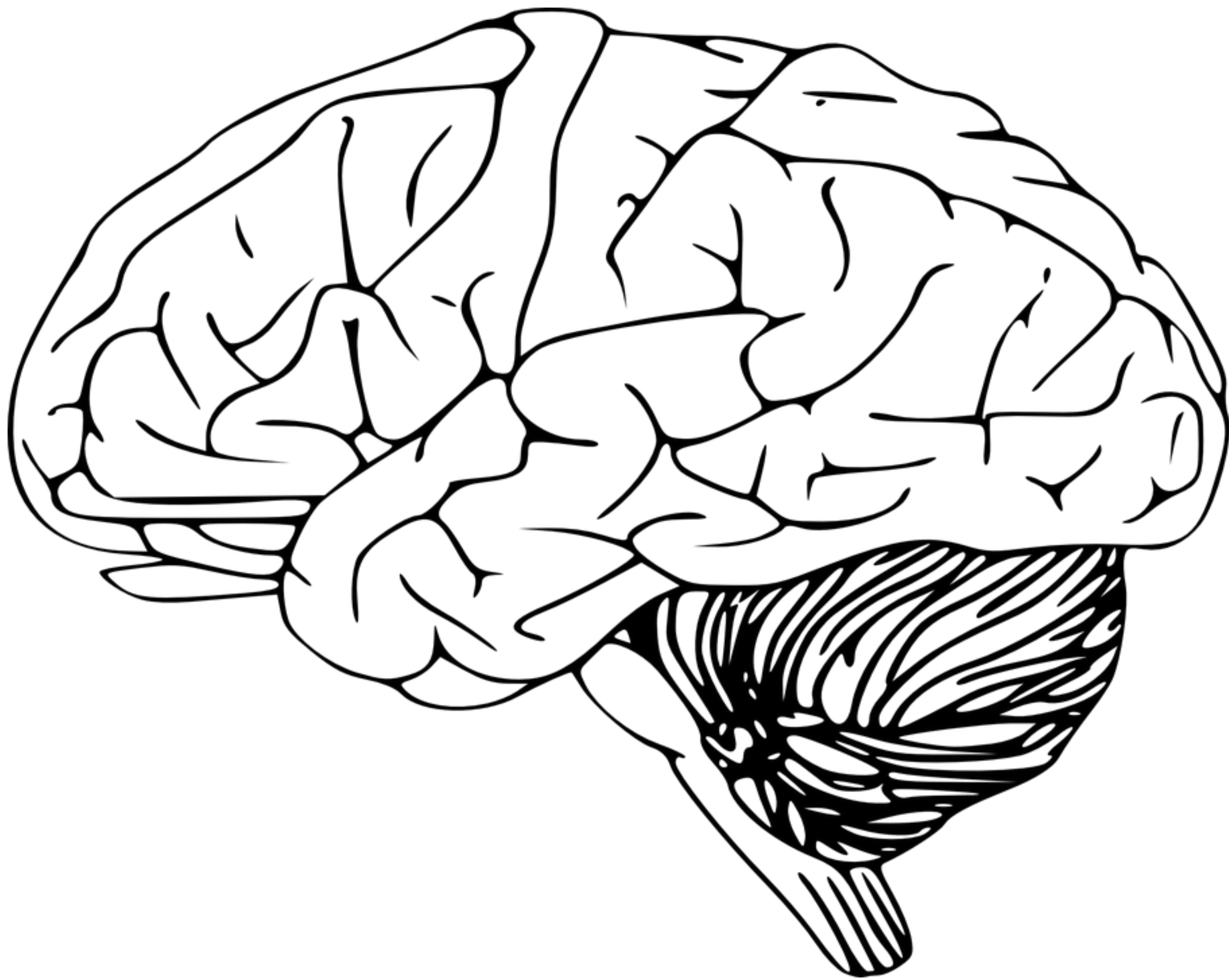
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5

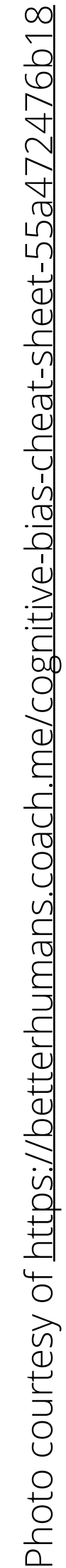
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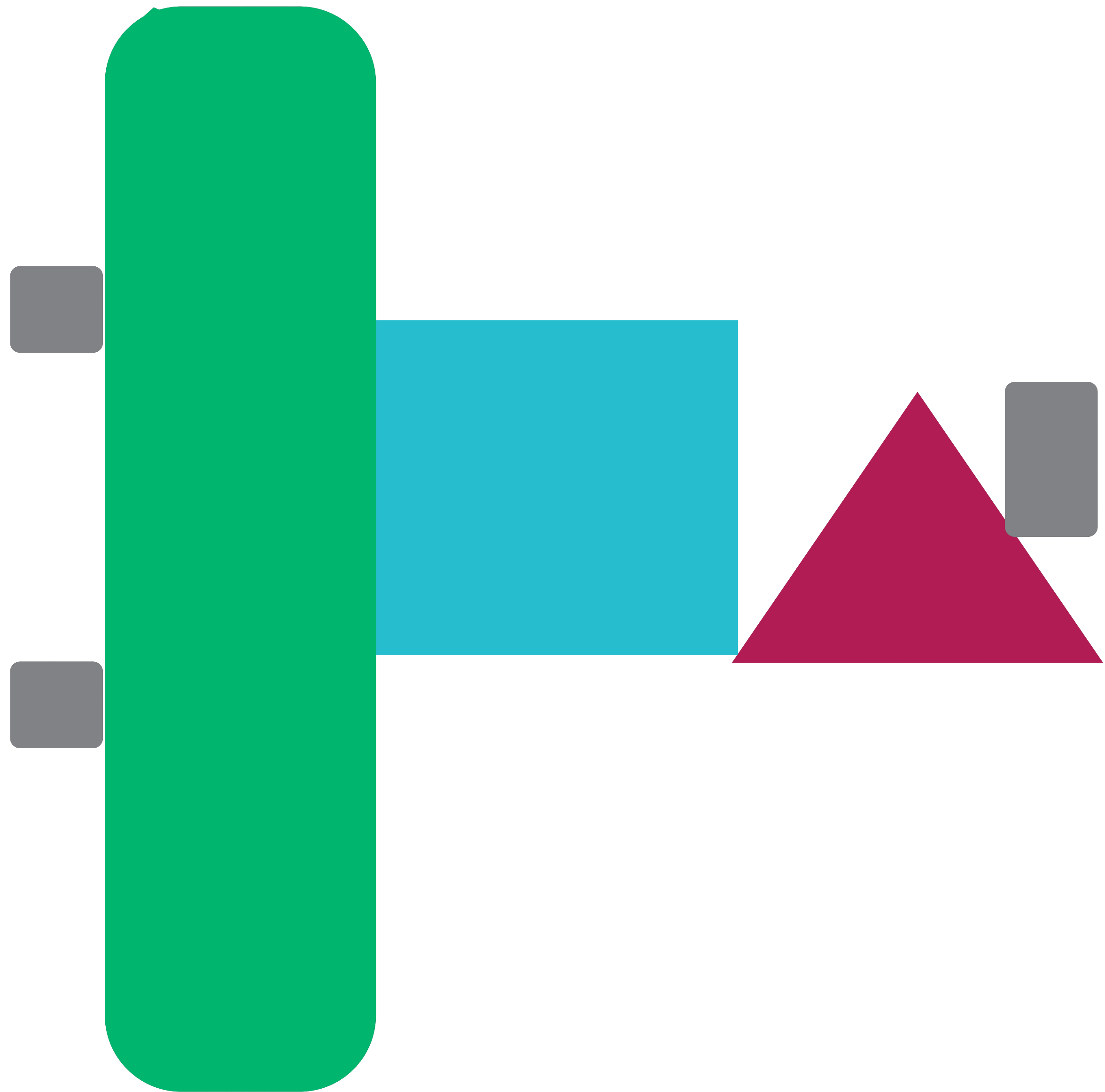
11

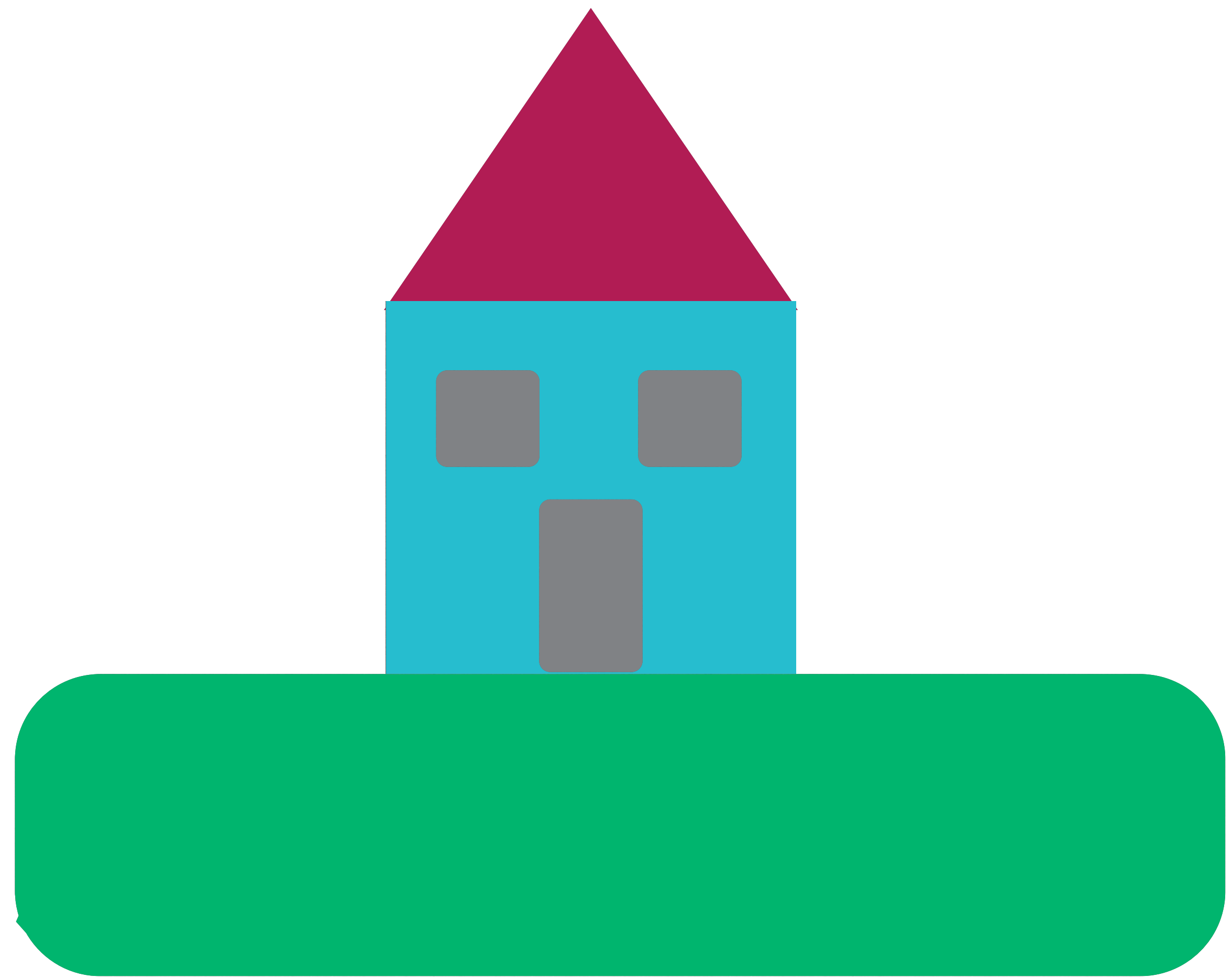
2 6 8
1 3 4
x < **y** < **z**
2 7
5 8 11

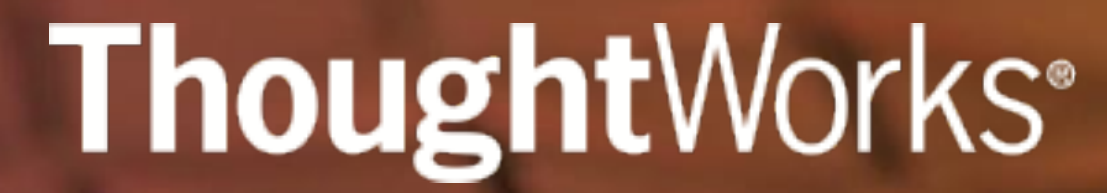


@sarahtarap







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The One About The Checkbox

SIMPLE CODE MANIFESTO

Composition	over	Inheritance
Matchers	over	If-Then-Else
Tiny Types	over	Primitives
SRP	over	Fat Objects
Decorators	over	Mixed Concerns

BOY SCOUT RULE



REFACTOR

RED

GREEN

REFACTOR

REFACTOR

RED

GREEN

REFACTOR

REFACTOR

REVERT

REFACTOR

COMMIT

GOOD CITIZEN

Trailing commas in lists

```
_matcher = new Matcher<Player>
{
    { p => p.InPenaltyBox(), ReducePenaltyTime },
    { p => p.WearingAHat(), RemoveTheHat },
    { p => true, PlayARound },
};
```

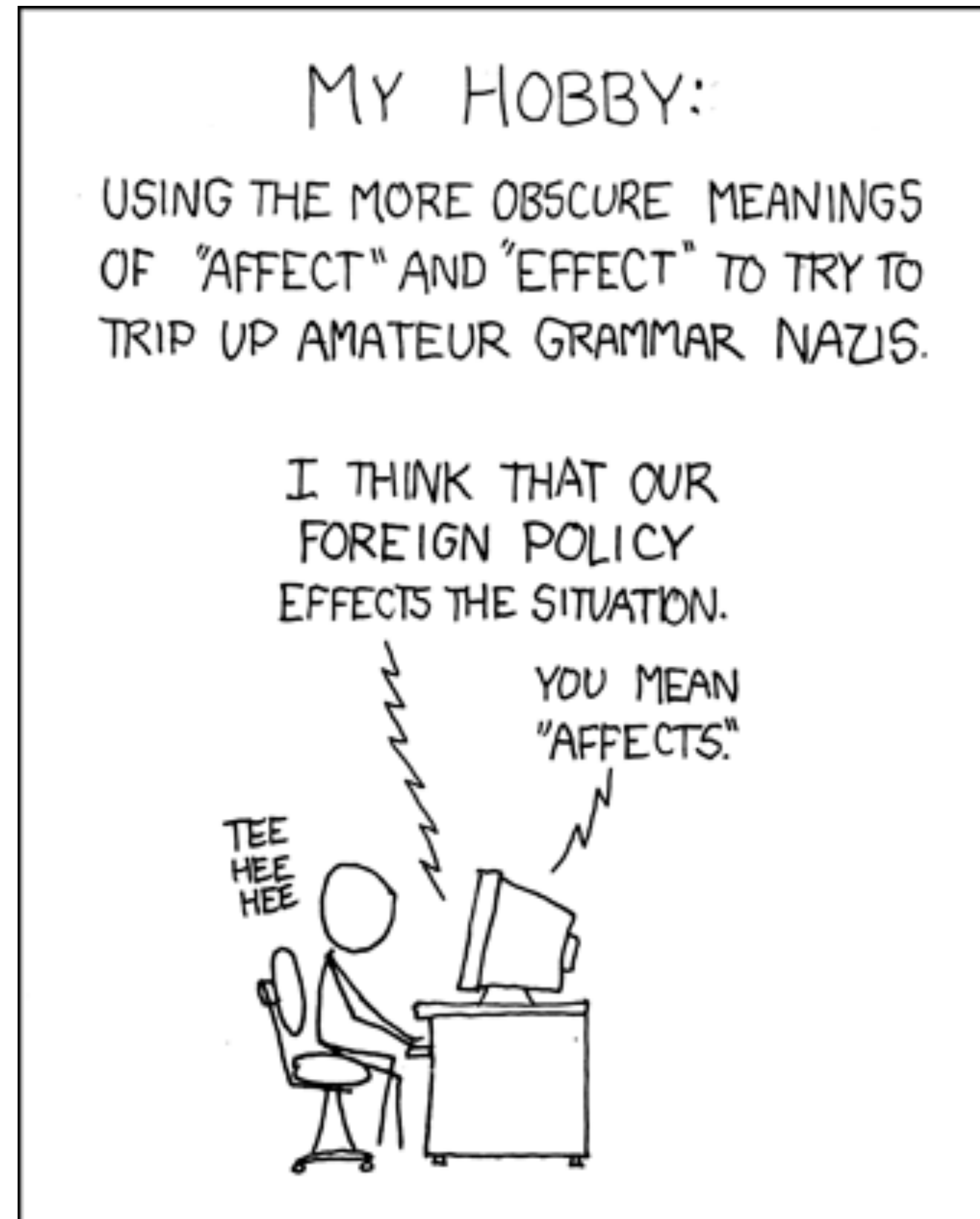
Brackets { } around conditionals

```
public void TakeTurn(Player player)
{
    if (player.InPenaltyBox())
    {
        ReducePenaltyTime();
    }
}
```

INTENTION REVEALING INTERFACES

IFooHandler => IHandleLotsOfFoos
IGameRepository => ICanFindTheGame

SIDE-EFFECT FREE CODE

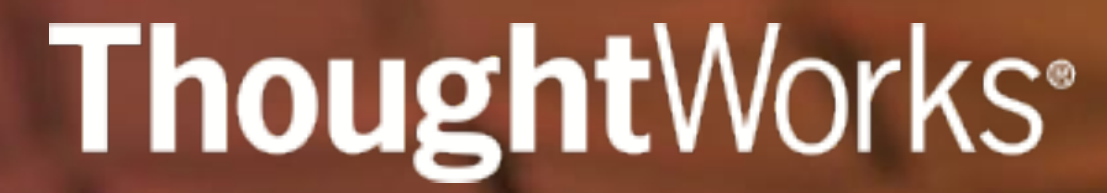


SQUINT TEST





Simple Code
Manifesto

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The One About The Fortress

JOB SECURITY



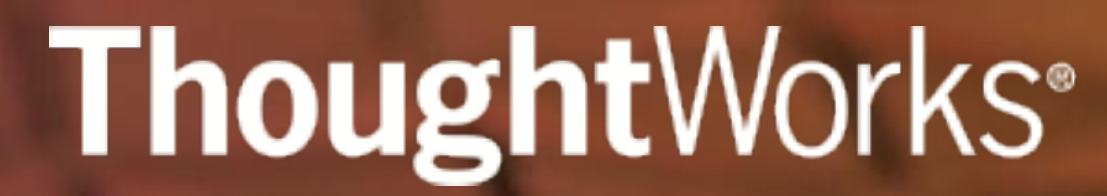
Photo courtesy of <https://imgur.com/gallery/08Zxbv0>

OPENNESS & COLLABORATION



0

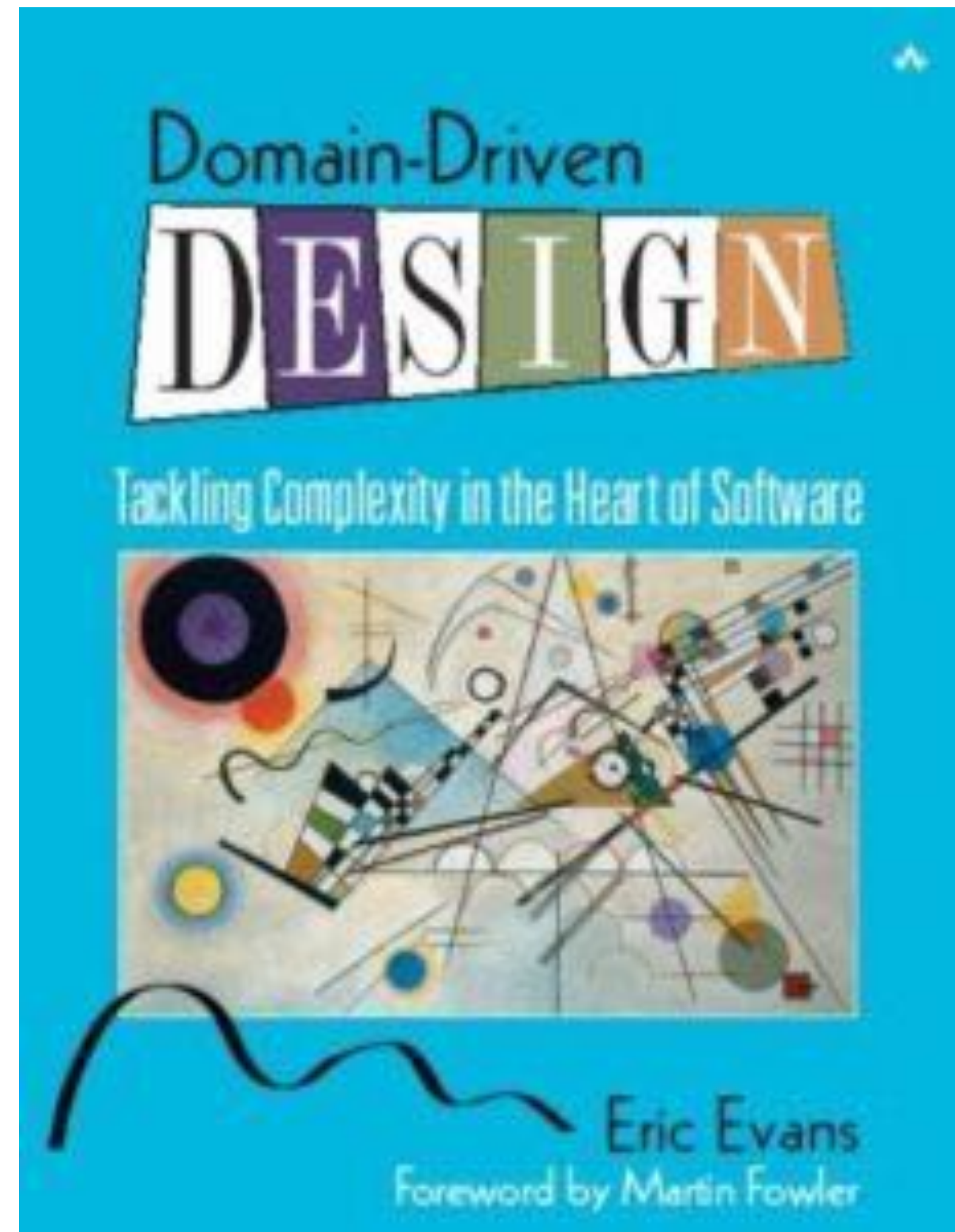
Openness
and
Collaboration

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The One About The Article

DOMAIN DRIVEN DESIGN

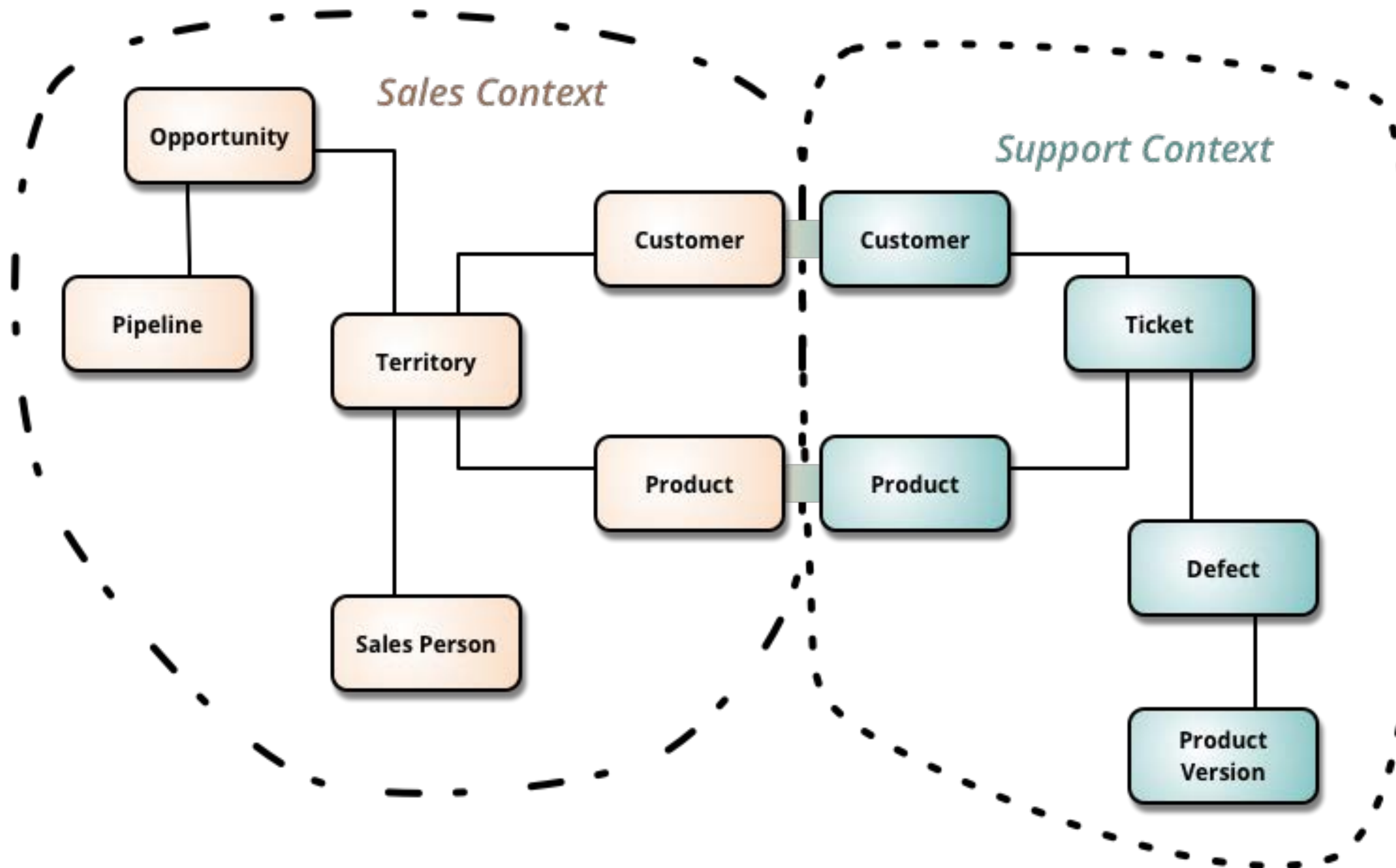


UBIQUITOUS LANGUAGE

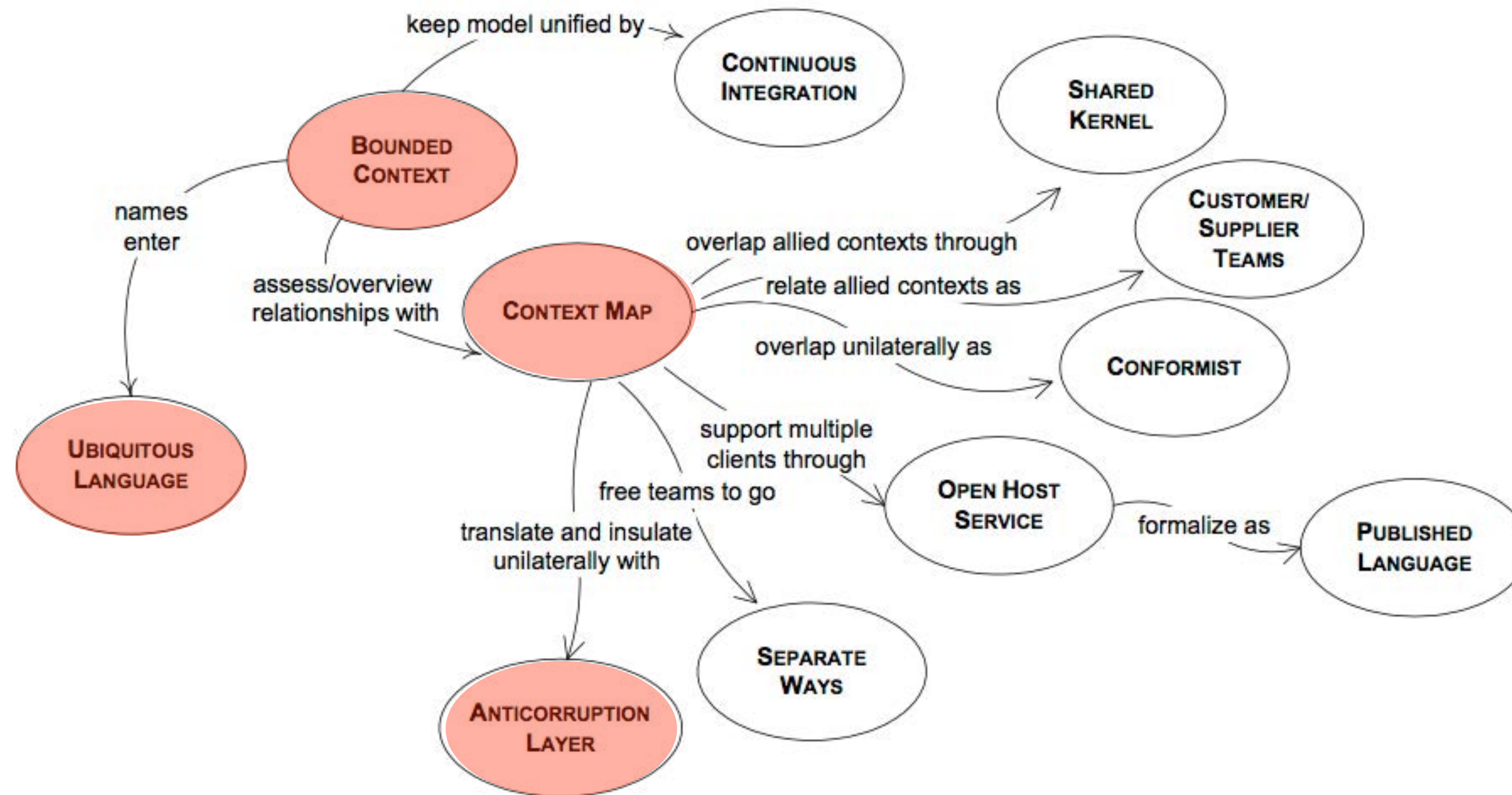


Photo courtesy of <http://pngimg.com/download/51770>

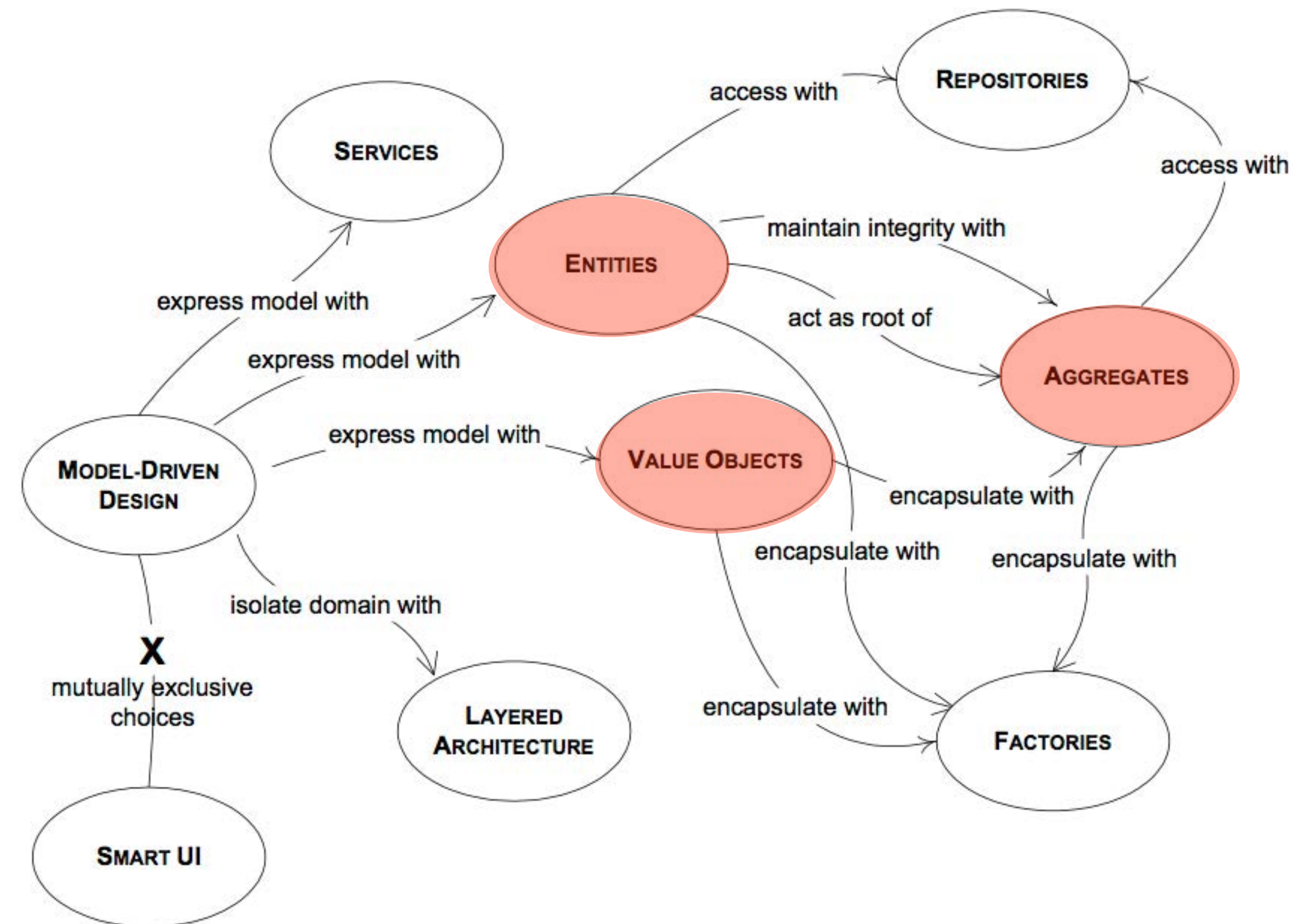
BOUNDED CONTEXTS



DOMAIN DRIVEN DESIGN

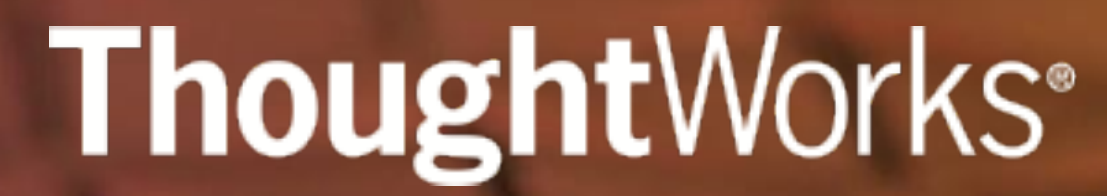


DOMAIN DRIVEN DESIGN





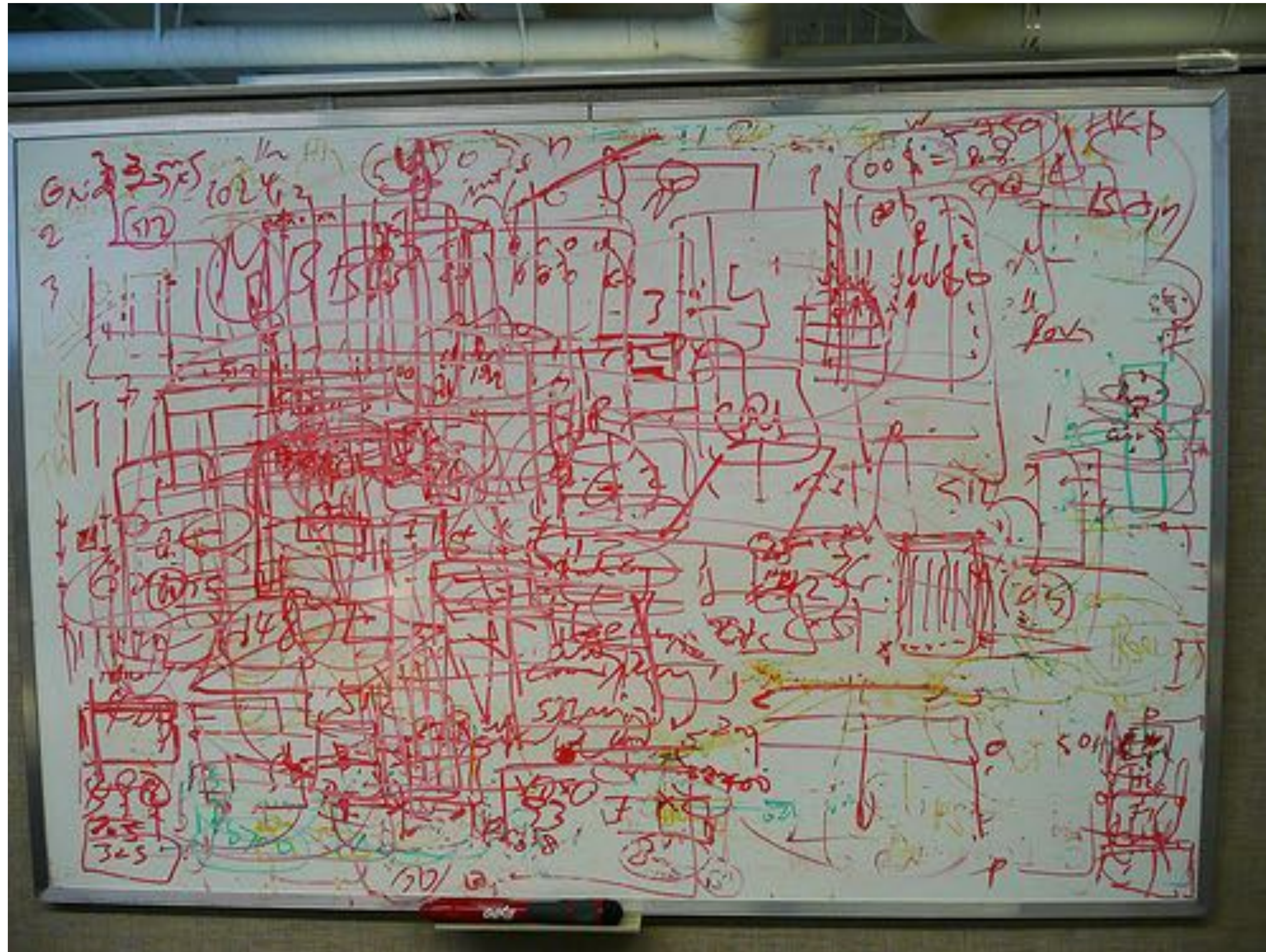
Ubiquitous
Language &
DDD

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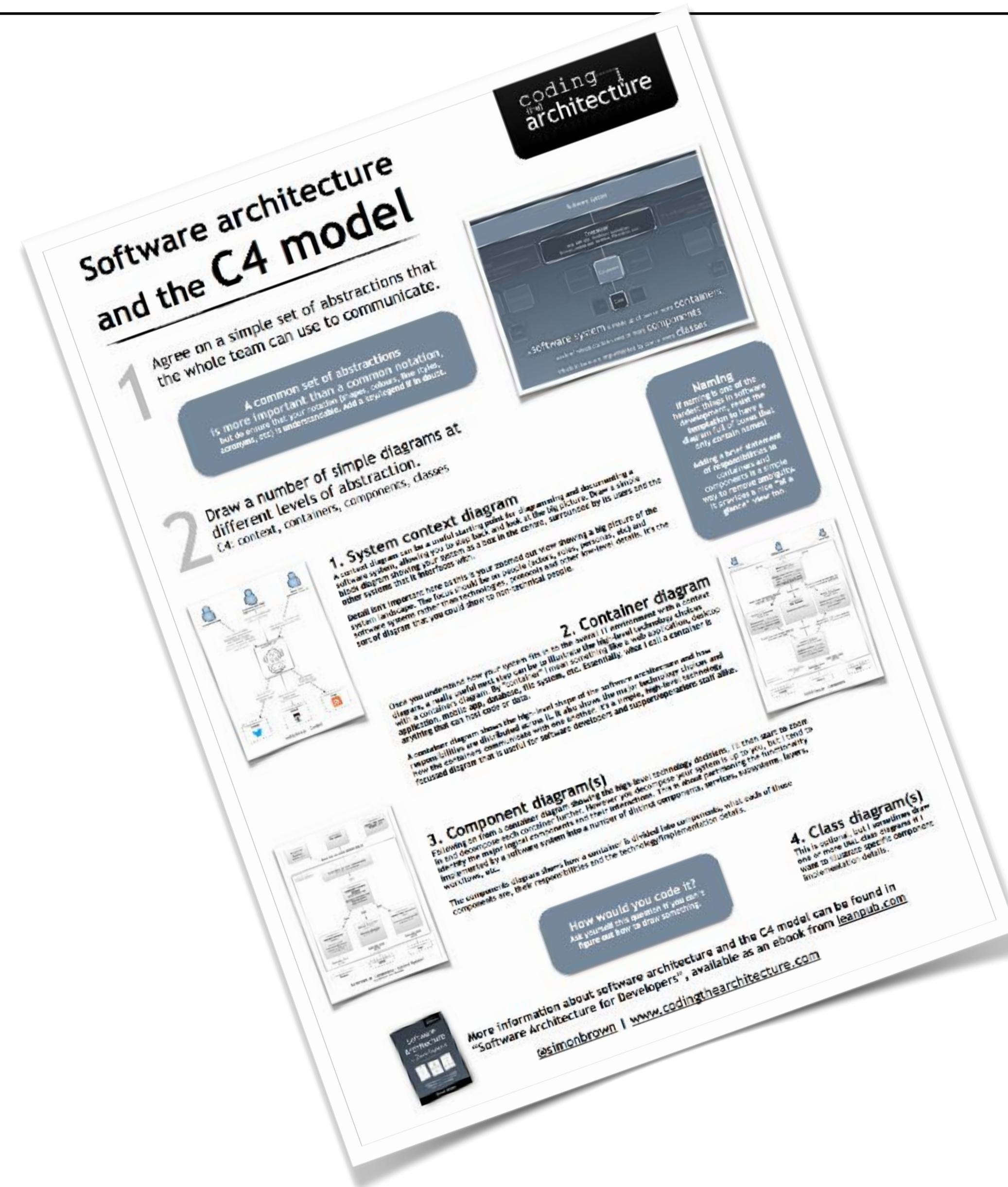
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The One About The Legacy

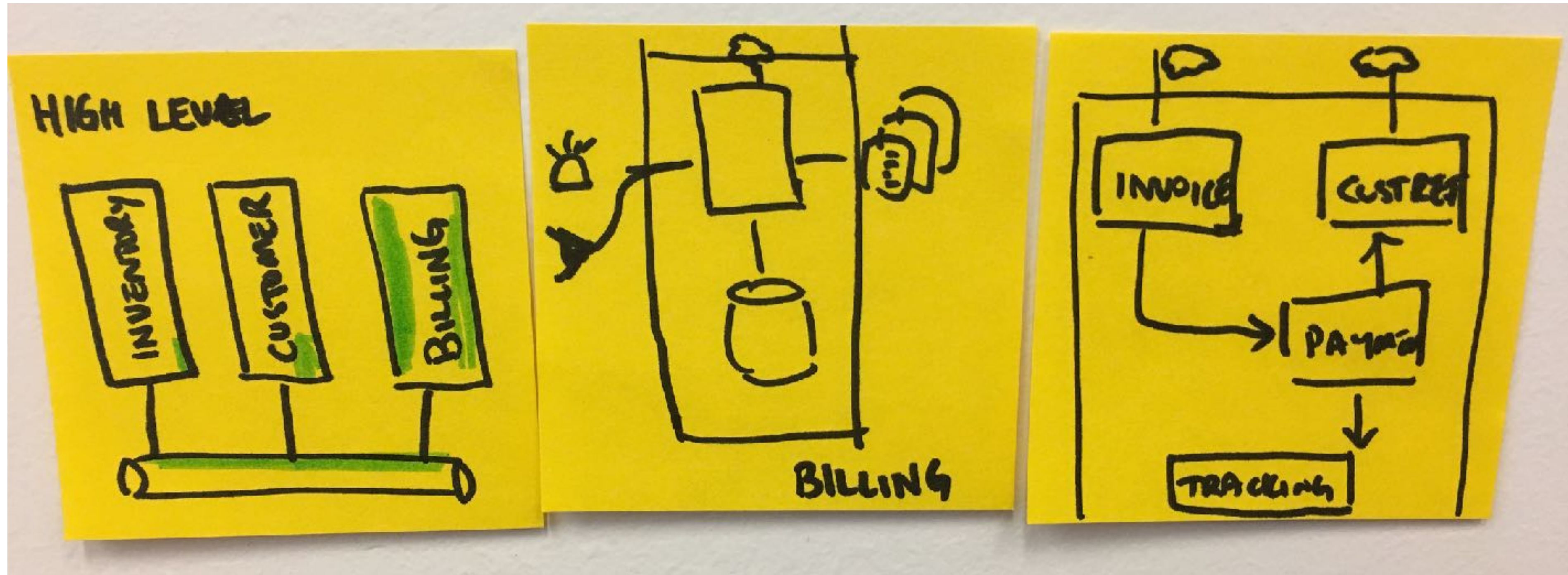
EXPLAIN YOUR SYSTEM

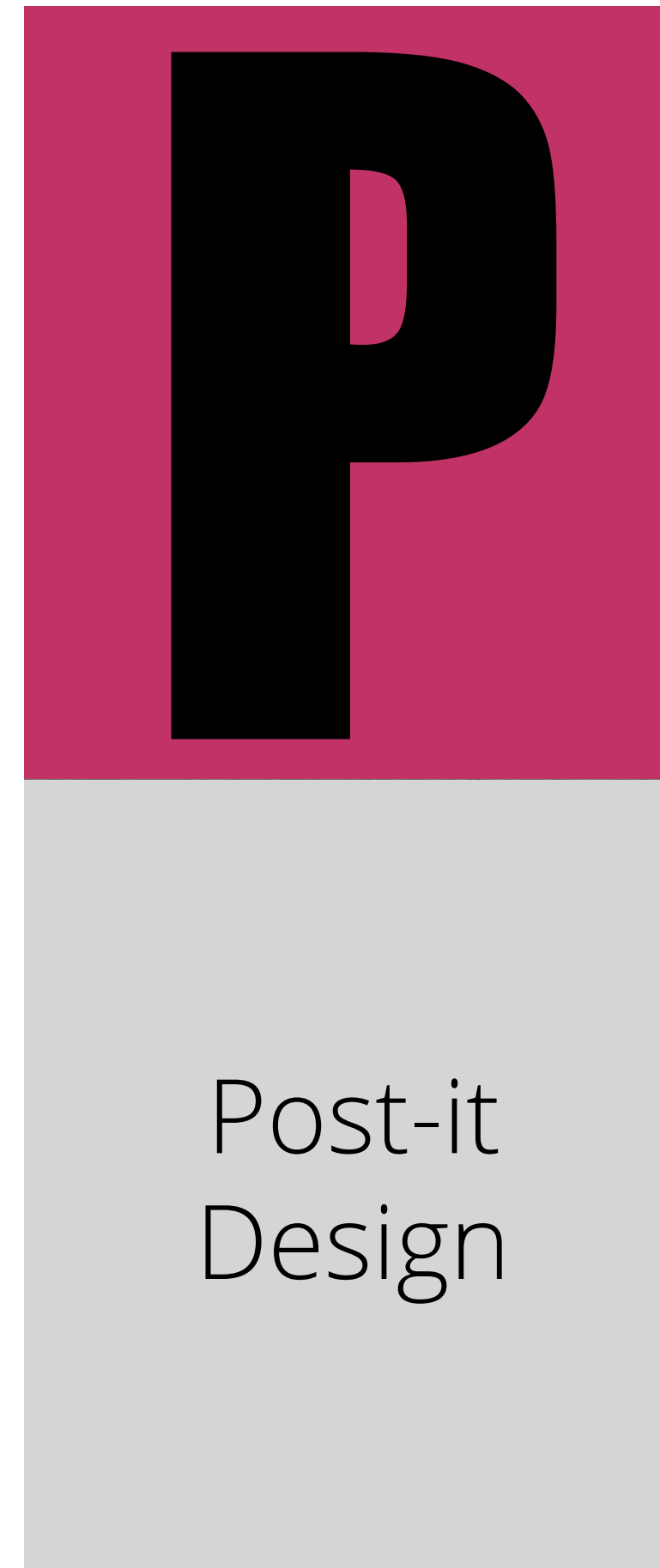


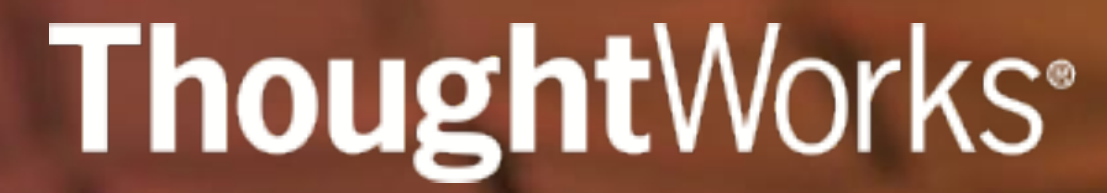
SIMON BROWN'S C4 MODEL



DESIGN-ON-A-POST-IT



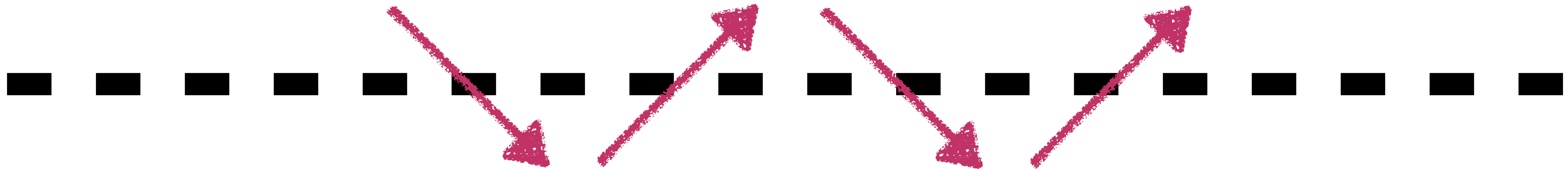


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The One About The Pricing Rules

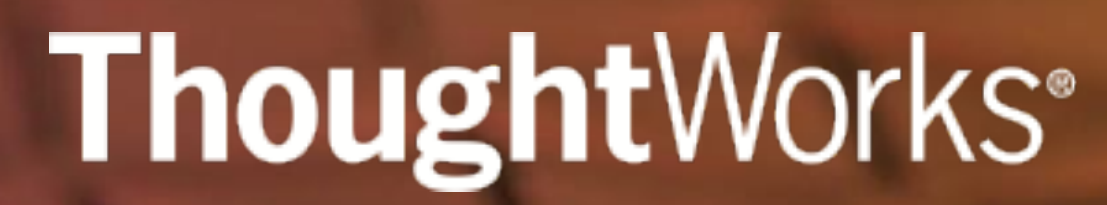
GENERALISE



SPECIALISE



Specialise to
Generalise

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ThoughtWorks®

To Recap

S	O	U	P	S
Simple Code Manifesto	Openness and Collaboration	Ubiquitous Language & DDD	Post-it Design	Specialise to Generalise

SOUPS

Simple Code
Manifesto

Openness
and
Collaboration

Ubiquitous
Language &
DDD

Post-it
Design

Specialise to
Generalise

SARAH
TARAPOREWALLA

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Q&A



THANKS FOR LISTENING



@sarahtarap | me@sarahtaraporewalla.com

