

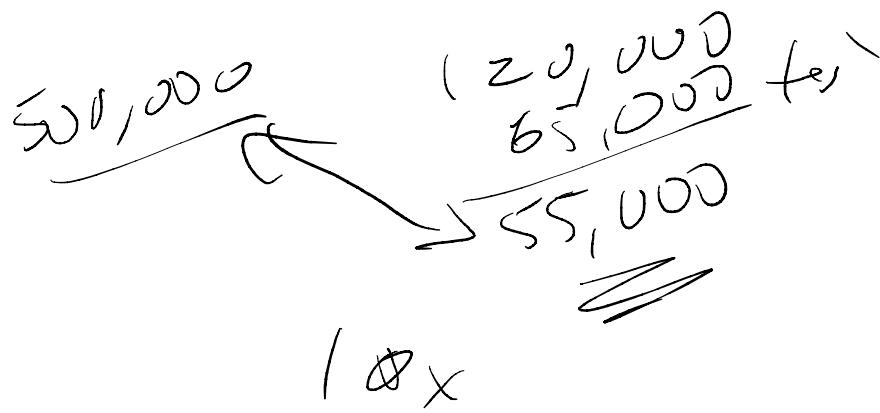
EVRY Boot Camp
2021-05-03

2021-05-03 - First Session

Java
Oracle
Web

Java
Oracle
Web

72 1400



Encapsulation

Polyorphism

Interface

Duck typing

Class → behavior

Object - data

Method

Services (Facade)

Inheritance

Abstraction

Delegation

Constructor - creation behavior

Composition = "buy"

Exception

Variable

Immutability

Conditional ⇒

Modifiers =

private

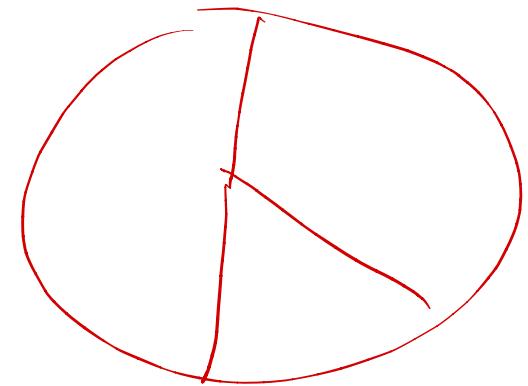
public

protected

package

Patterns

"kind of" Context



| | <u>Poly.</u> | <u>Intertank</u> | <u>Encapsulation</u> |
|-----------|--------------|------------------|----------------------|
| Ardit | 25 | 30 | 45 |
| Yashitha | 30 | 30 | 40 |
| Oc | 20 | 10 | 20 |
| Praveen | 30 | 20 | 50 |
| Tubics | 33 | 33 | 34 |
| Artur | 15 | 5 | 80 |
| (sunil) | 25 | 35 | 40 |
| Tanya | 30 | 35 | 35 |
| Mangal | 20 | 20 | 60 |
| Hankam | 15 | 15 | 20 |
| Stran | 20 | 5 | 75 |
| Thor Erik | 25 | 50 | 25 |
| Frode | 20 | 20 | 60 |
| Nik | 30 | 10 | 60 |
| Fred | 30 | 10 | 60 |

Conceptualization = Job

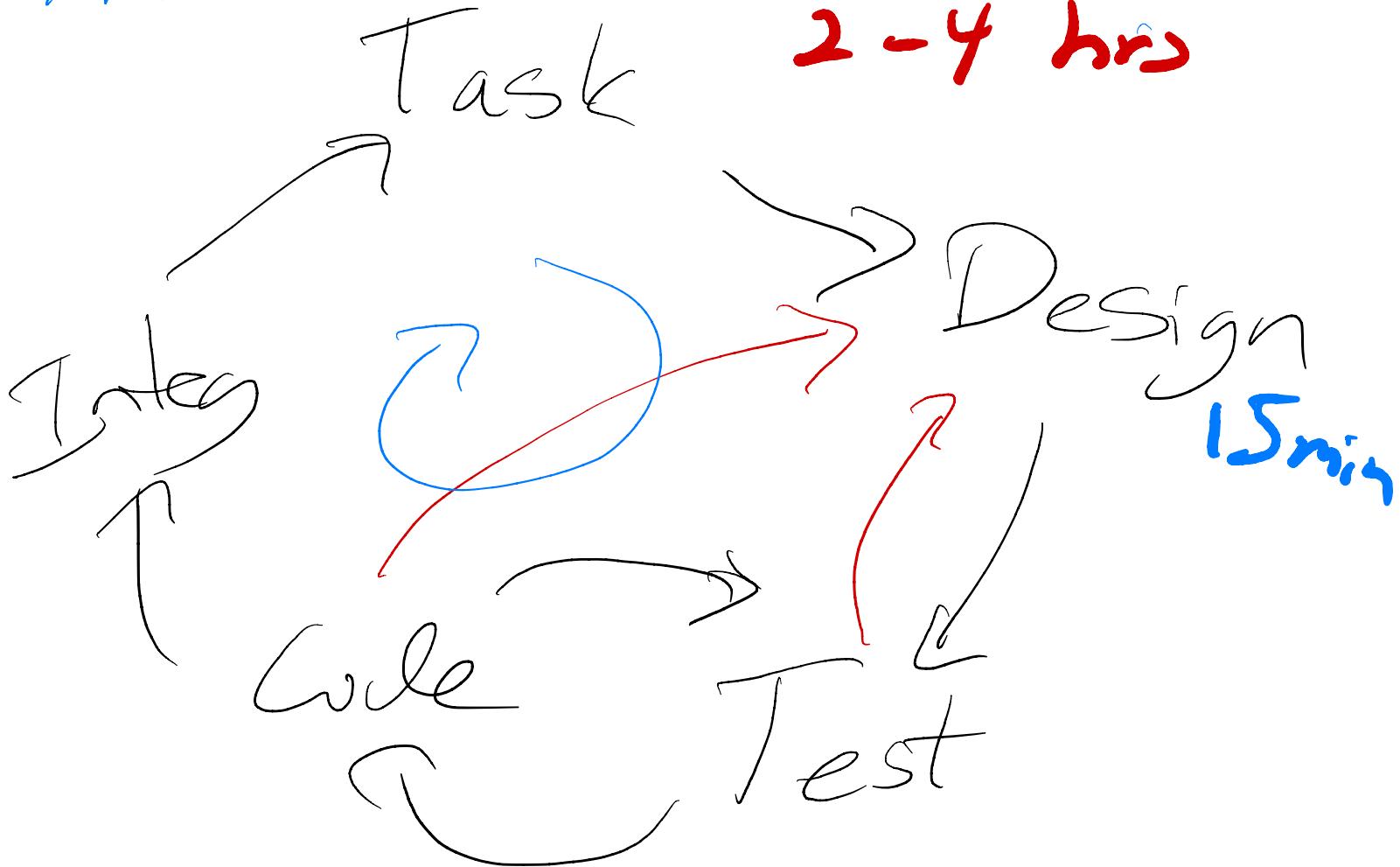
Behaviors

CRC

| | | |
|---|---|---|
| | c | o |
| a | z | / |
| s | p | / |
| s | - | / |
| e | : | r |
| s | . | t |
| | | b |
| | | j |

7 bms 1 ms
3 ms
6 wk
2-3 mo

Ship?
F



1,000,000 loc J2EE
2,000 - 4,000
50 pages

Feedback ↑ ⇒ Q↑

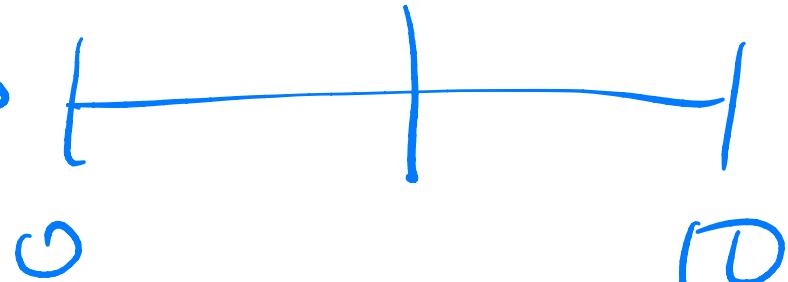
- 1) Ship
- 2) Sprint / Iteration
- 3) Stand Up
- 4) Pair Programming ~~Review~~

Job of a Rectangle ; "Understand"

Understands a polygon -

w 4 sides & right angles

- - -



Job is NOT

- list of parameters (data)
- essay
- list of behaviors
- circular

Anthropomorphize

Probability

Data

#

0 - 1.0

0 - 100

Behavior

compare

not()

and()

or()

3 releases

3 ms - 10

3 ms - 12

2 ms - 6

50

35 -

3 psm

1 QA

25 x 10_x

6 psm

QO OOO
O O OOO
OO OOO

$$4 - 10\lambda = 40$$

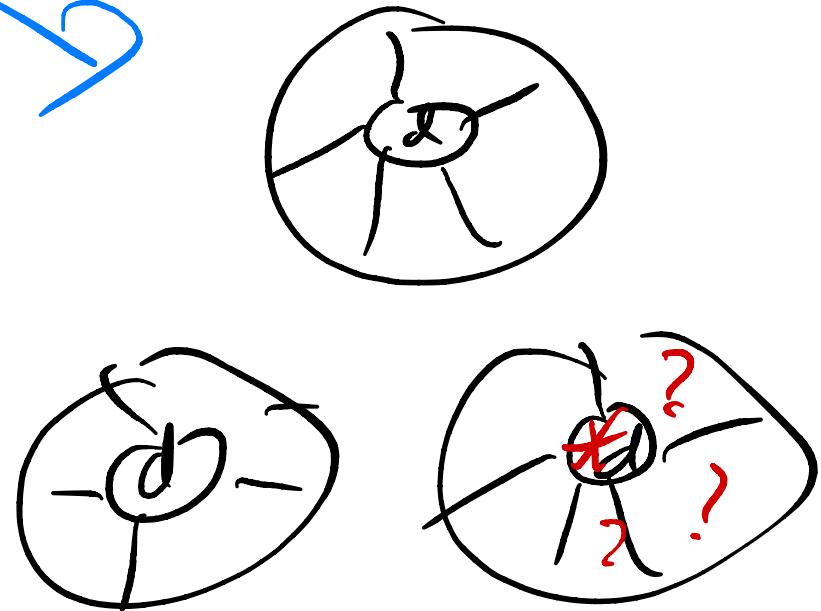
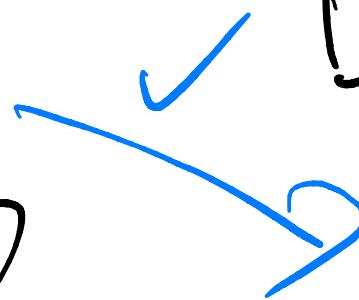
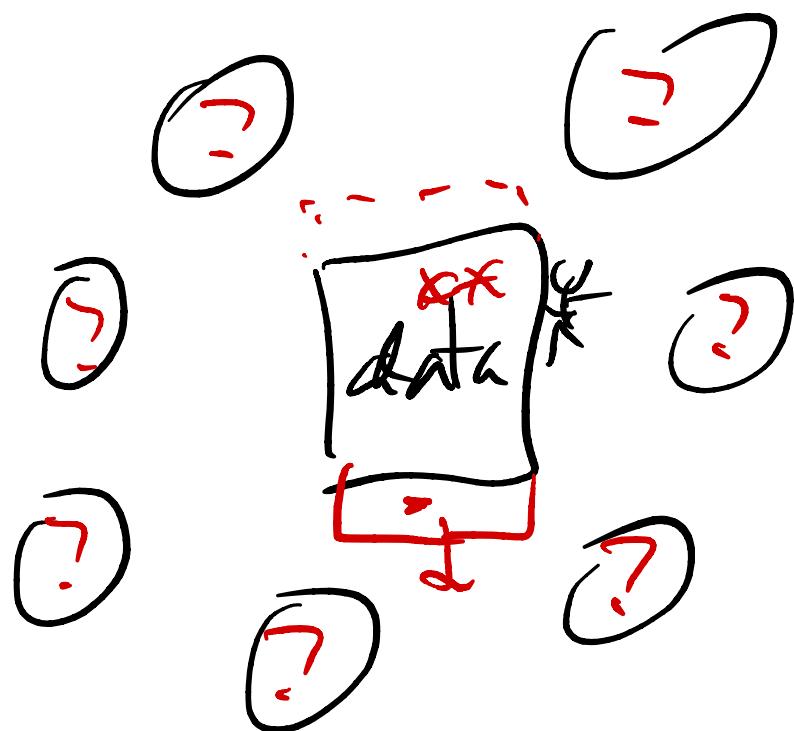
$$2 - 2 \times 4$$

(44) $\frac{4}{3} \approx 17$

Encapsulation

Fred Brooks

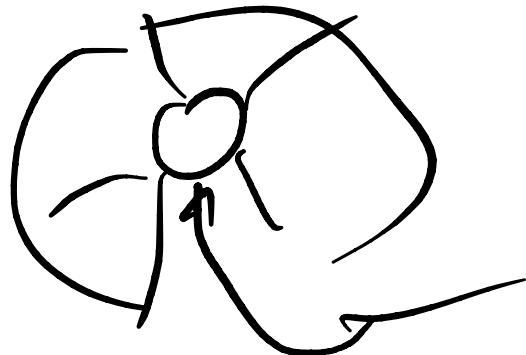
Dave Parnas



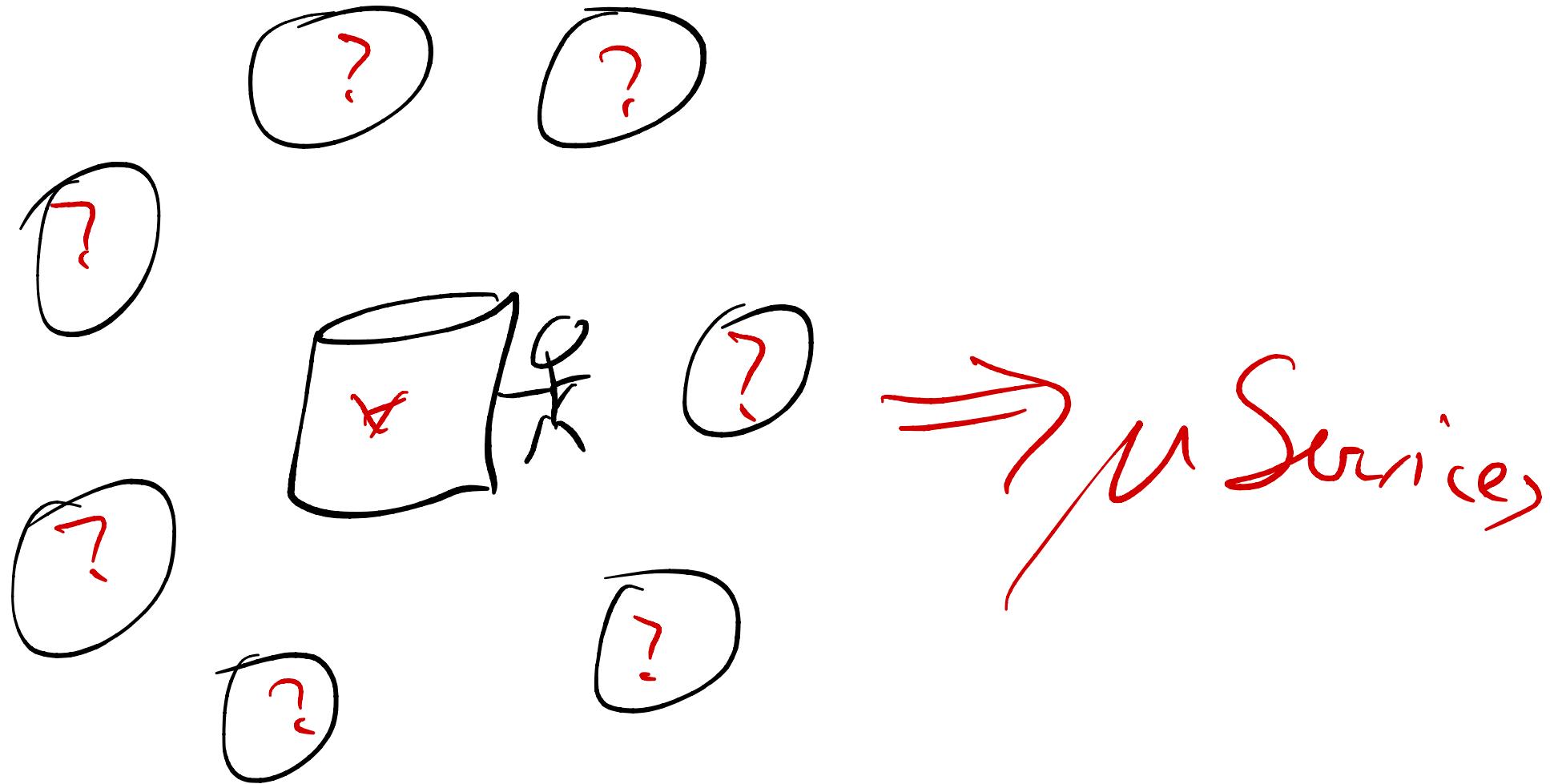
Data Hiding

1,000,000

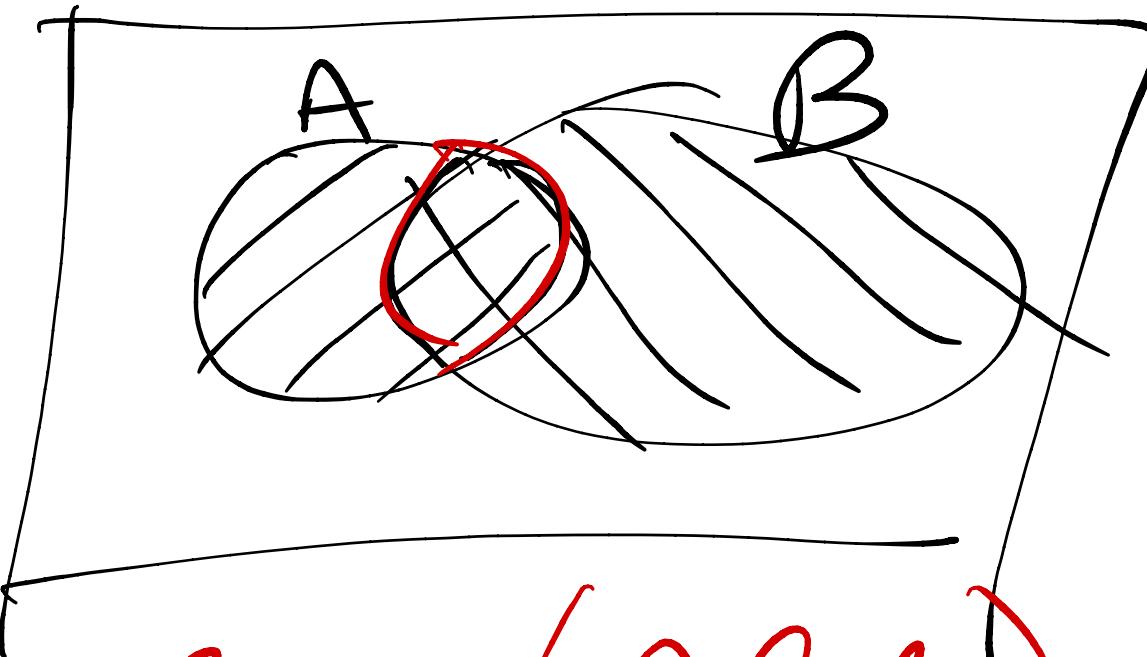
$\text{Loan}(s_0) \neq \text{null}$



83
50+



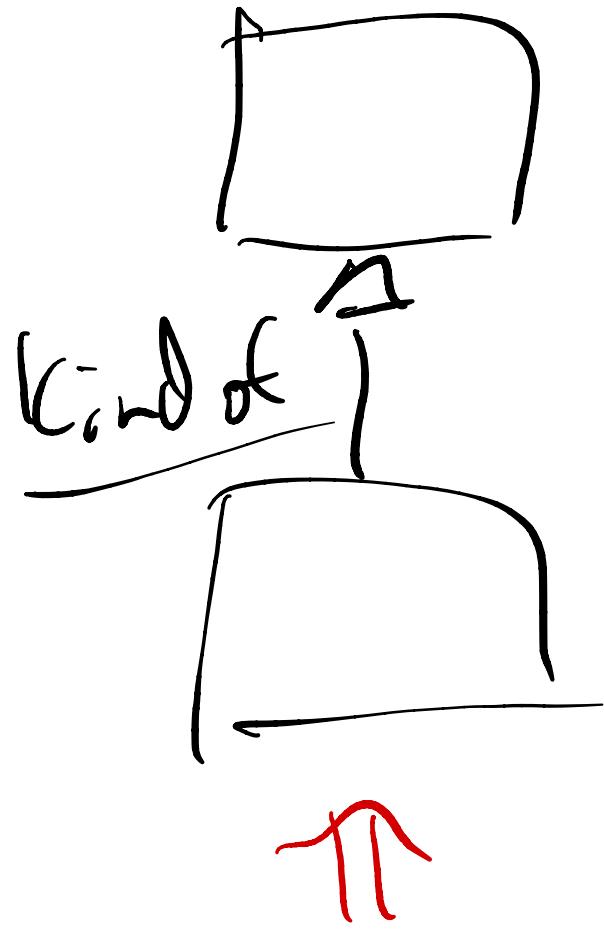
Probability



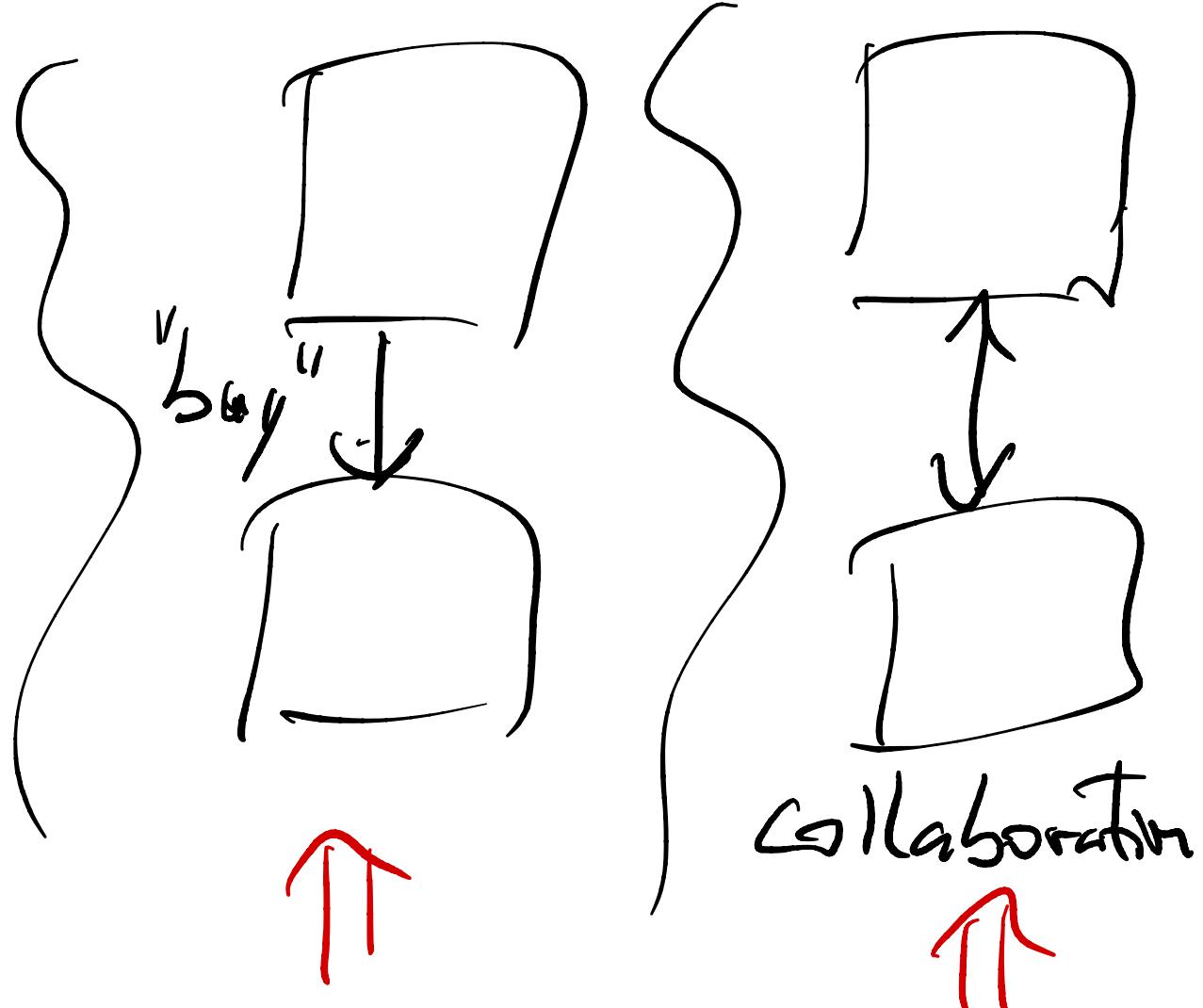
$$A + B - (A \& B)$$

De Morgan's Law

~~A or B~~ = \bar{A} and \bar{B}



Kind of



"buy"

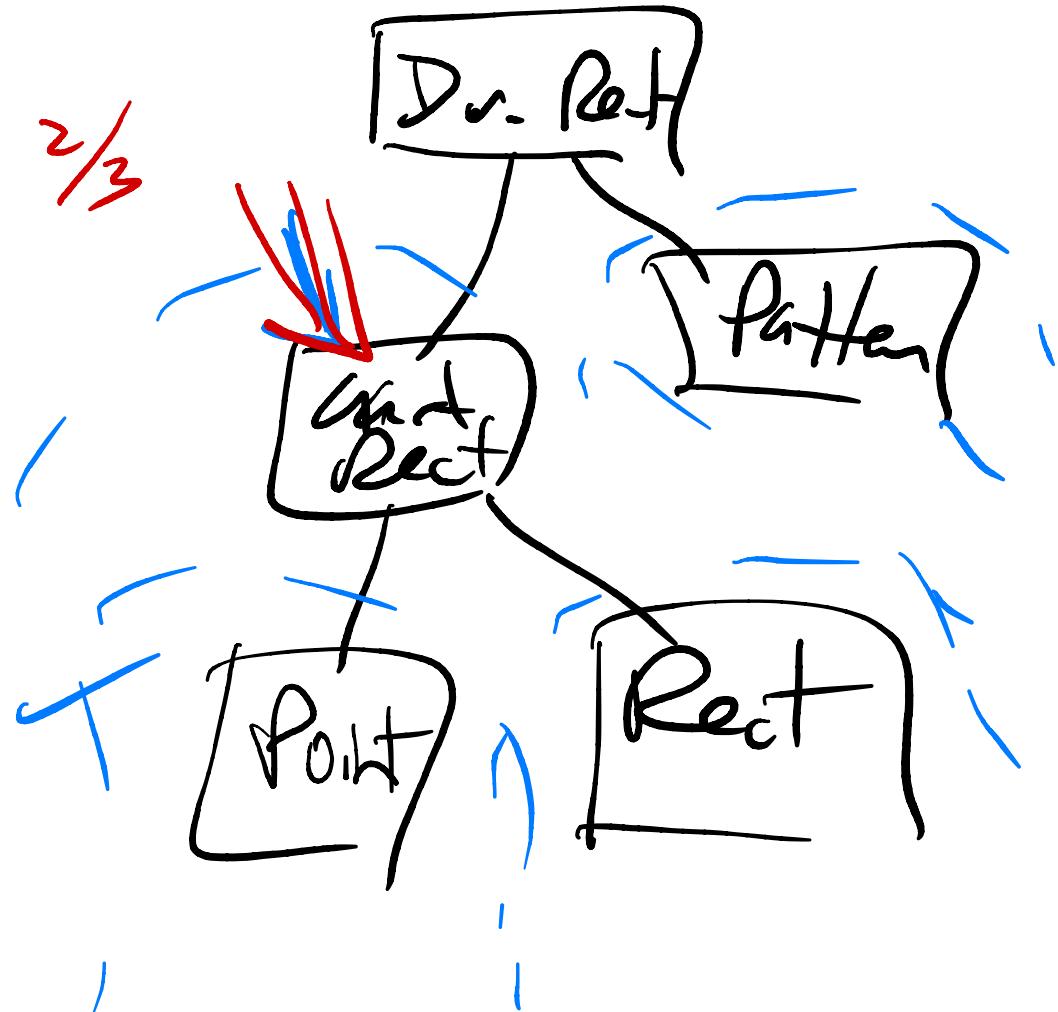
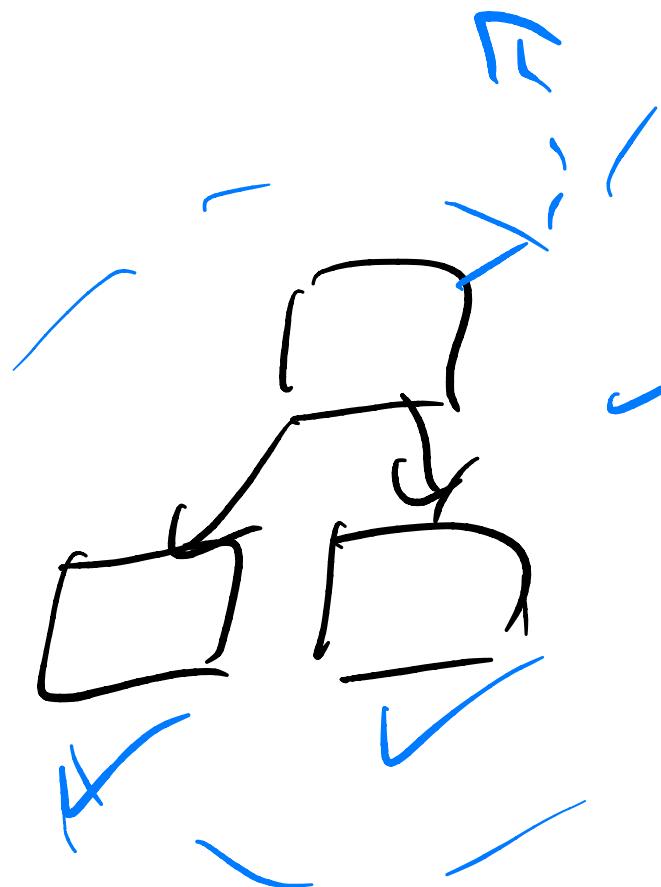
Collaboration



Bug

1400

2000 $\frac{2}{3}$



✓ Communication {

- interests
- manager
- x / chia 2 K

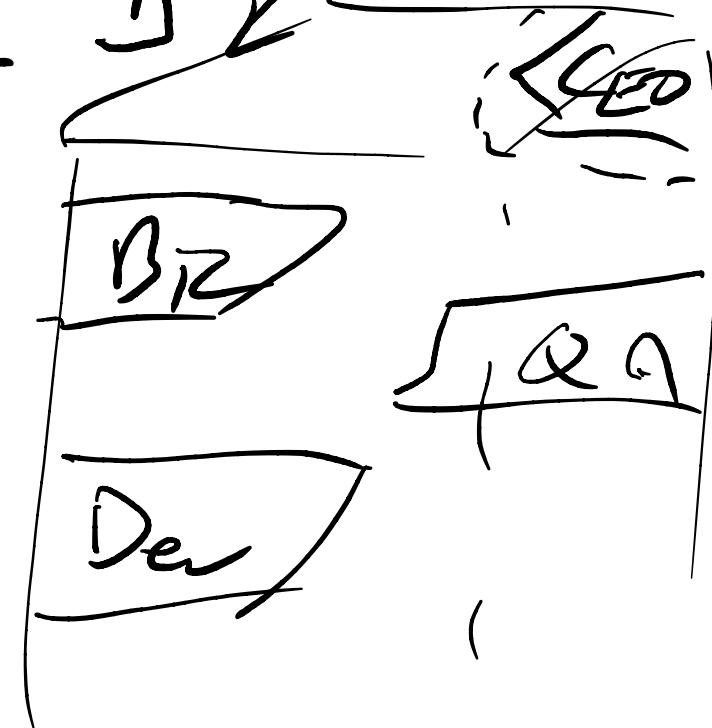
✓ Feedback

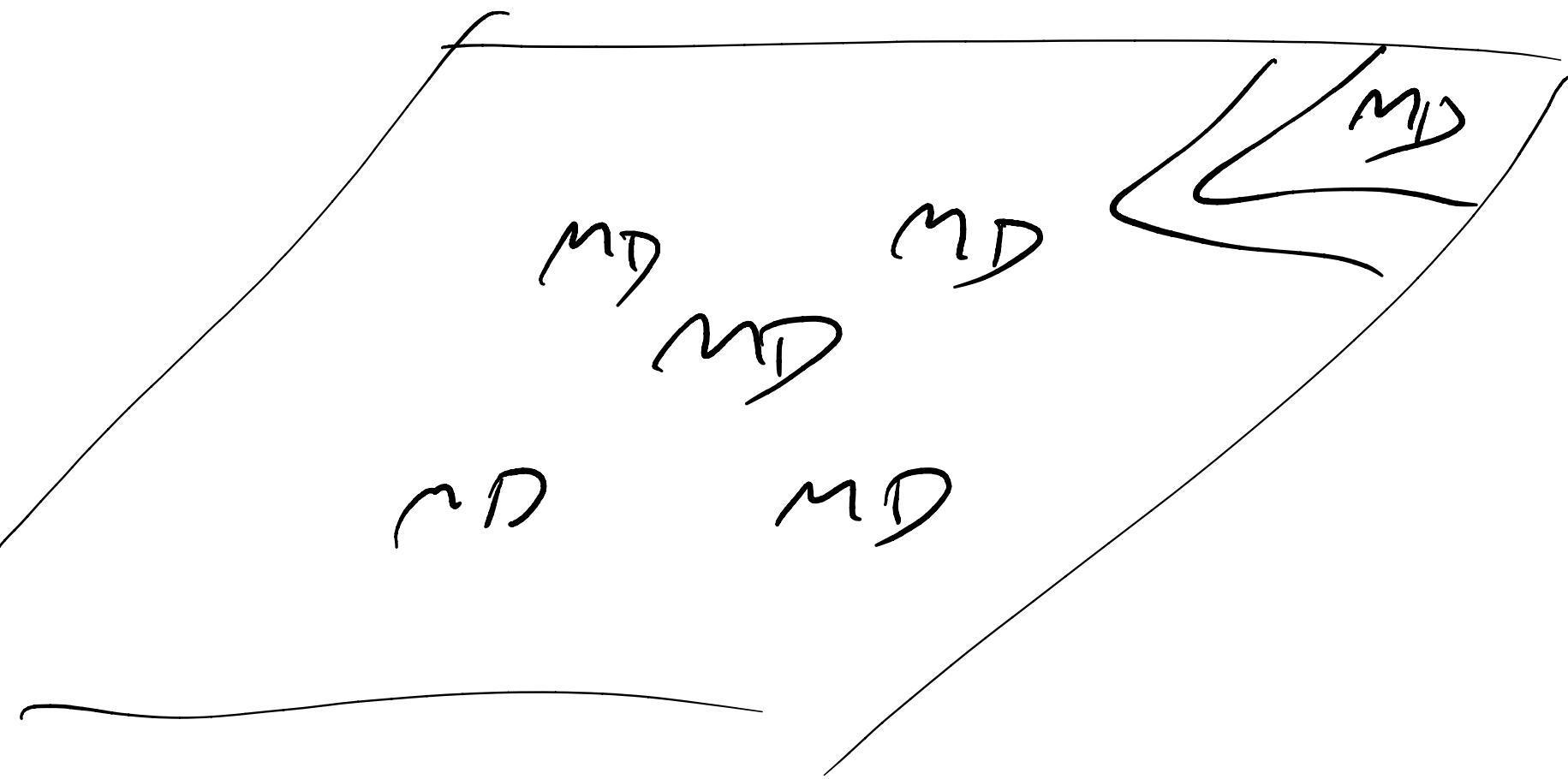
- 1) Slip
- 2) Iteration
- 3) Stand up
- 4) Pair

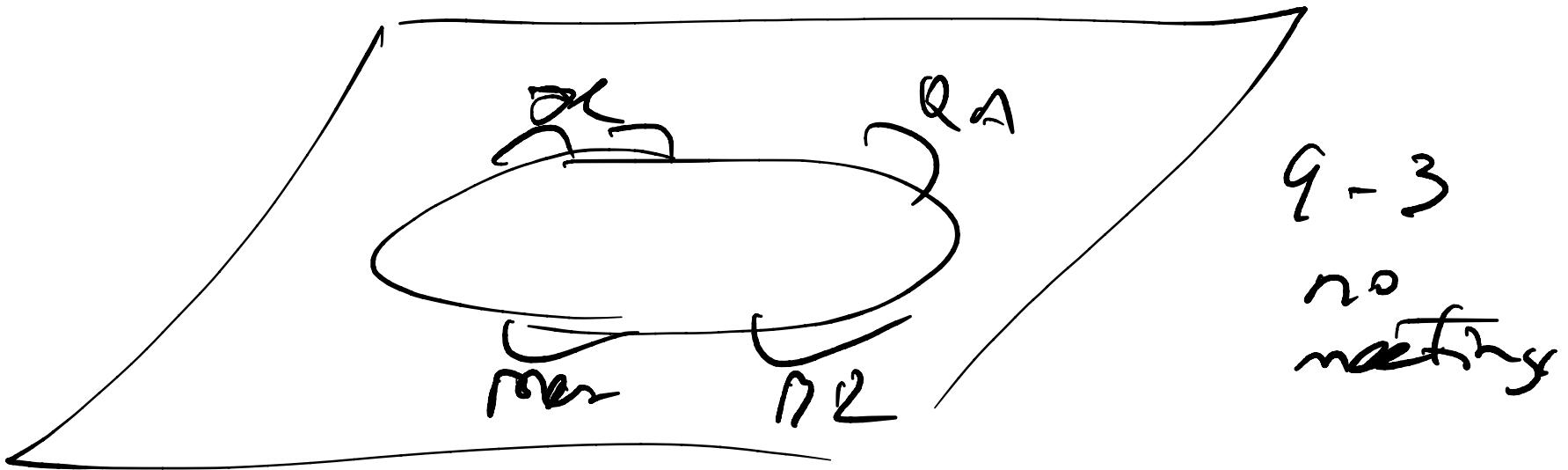
✓ Simplicity
LEGOK

✓ Courage

✓ Respect







Courage



Kills innovation

Estimates

1 tablespoon = 3 teaspoons

1 ounce = 2 tablespoons

1 cup = 8 ounces

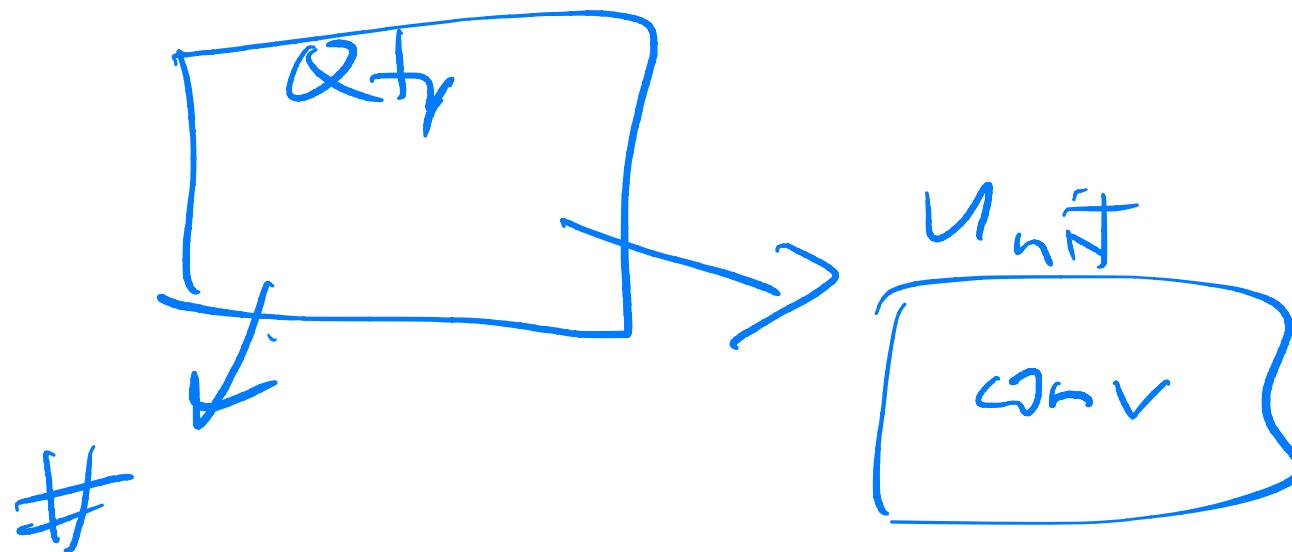
1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

Quantity Pattern

⇒ Analysis Patterns by M. Fowler



2021-05-06 - 4th class

$$12 \text{ inches} = 1 \text{ foot}$$

$$3 \text{ feet} = 1 \text{ yard}$$

$$6 \text{ feet} = 1 \text{ fathom}$$

$$22 \text{ yards} = 1 \text{ chain}$$

$$10 \text{ chains} = 1 \text{ furlong}$$

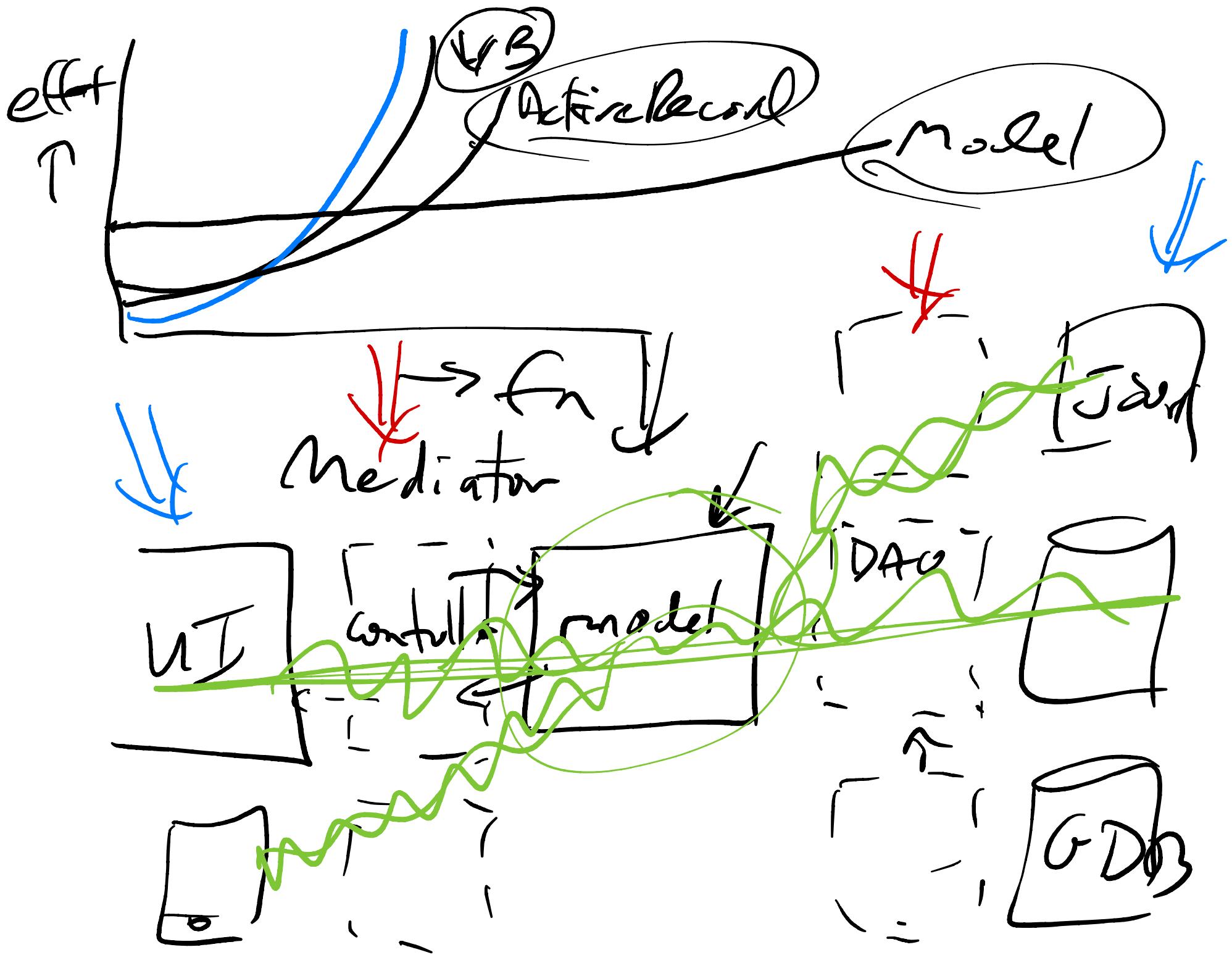
$$8 \text{ furlongs} = 1 \text{ mile}$$

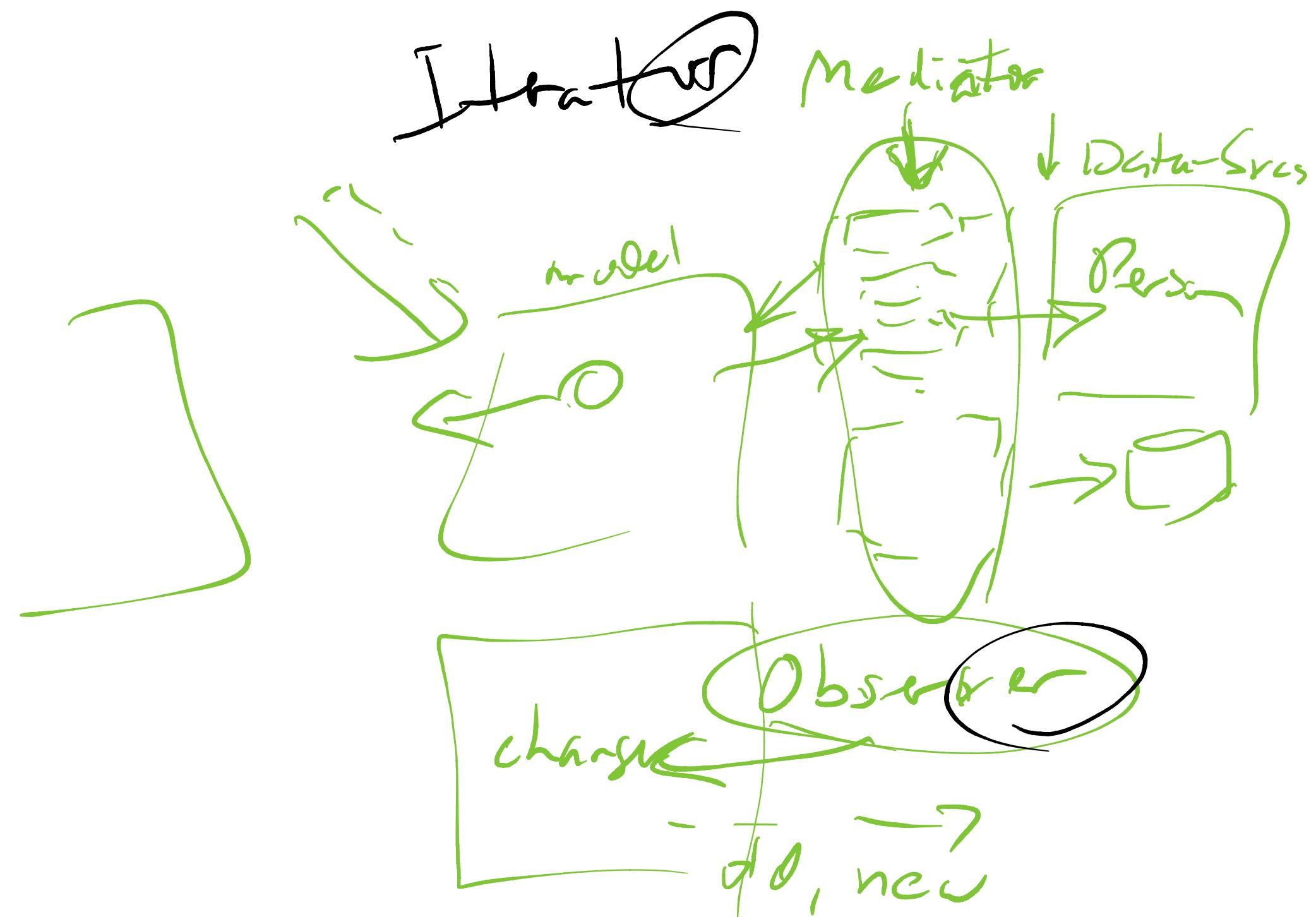
$$3 \text{ miles} = 1 \text{ league}$$

Encapsulation - Violations



- getters / setters
- variables not private
- o returning non-classes
- overriding
- serialization
- Data class ≠ class
 "feature envy"
- Rule of Penetration
 "a.b.c.d.e()"





$$0^{\circ}\text{C} == 32^{\circ}\text{F}$$

$$10^{\circ}\text{C} == 50^{\circ}\text{F}$$

$$100^{\circ}\text{C} == 212^{\circ}\text{F}$$

$$-40^{\circ}\text{C} == -40^{\circ}\text{F}$$