

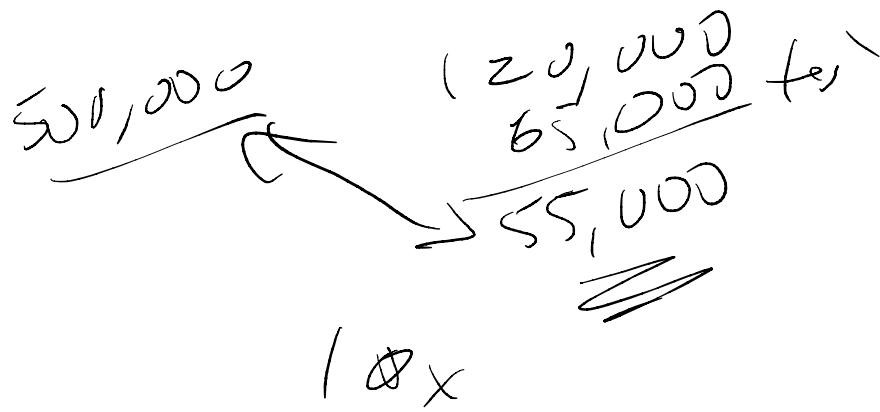
EVRY Boot Camp
2021-05-03

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

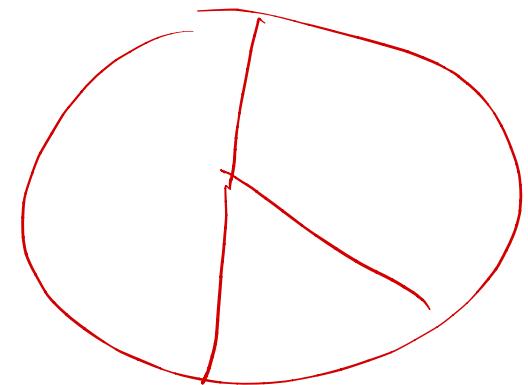
public

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

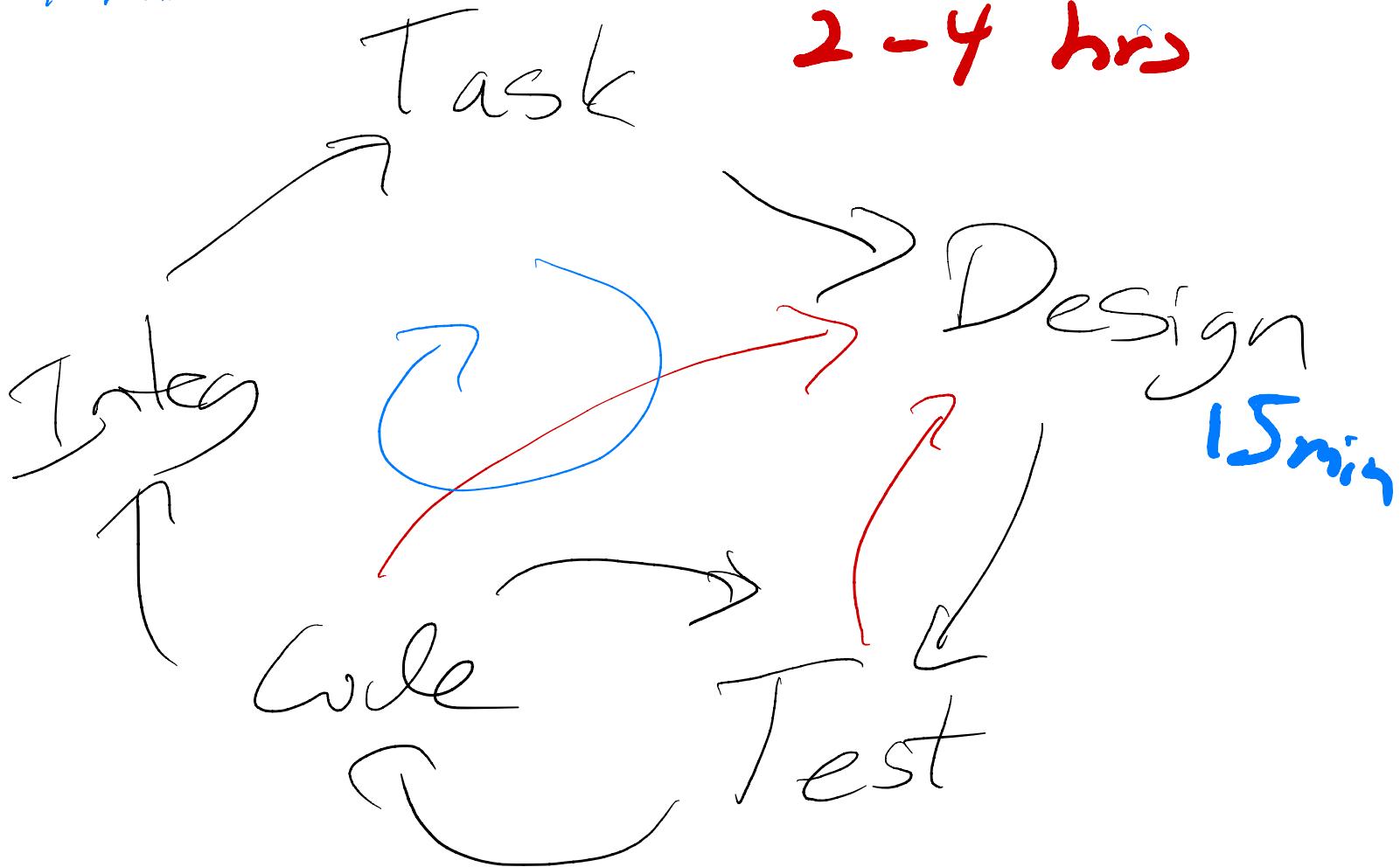
Behaviors

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?
Skip?



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

Feedback ↑ ⇒ Q↑

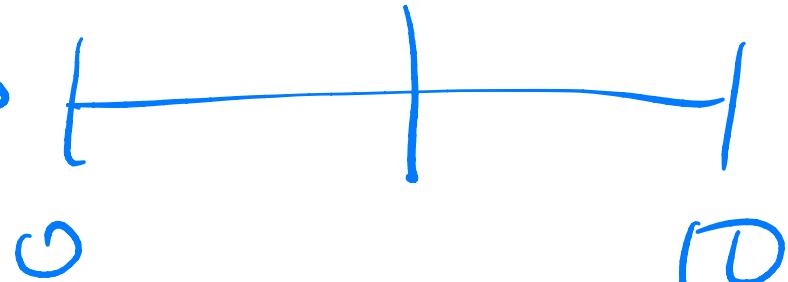
- 1) Ship
- 2) Sprint / Iteration
- 3) Stand Up
- 4) Pair Programming ~~Review~~

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

$$4 - 10\lambda = 40$$

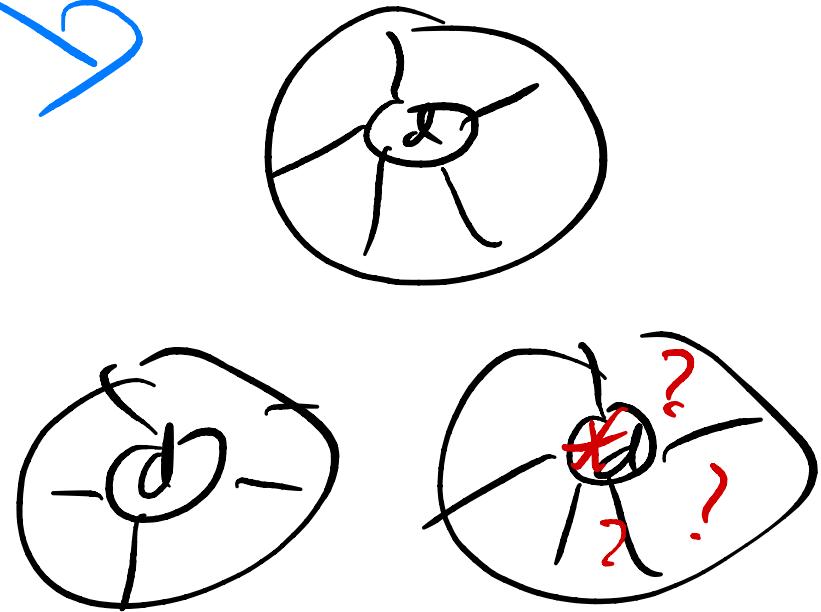
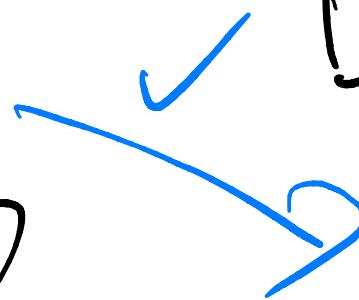
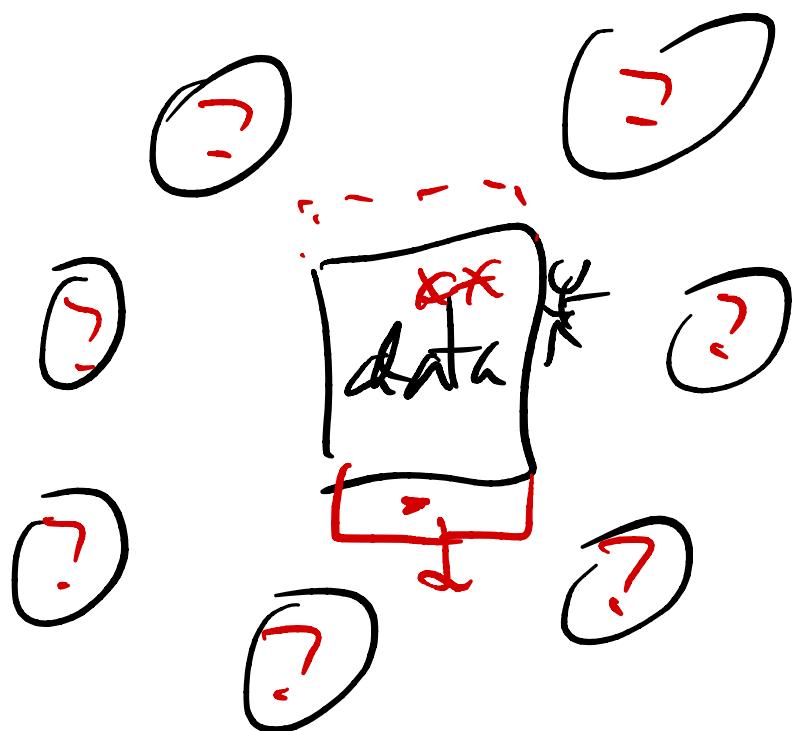
$$2 - 2 \times 4$$

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

Encapsulation

Fred Brooks

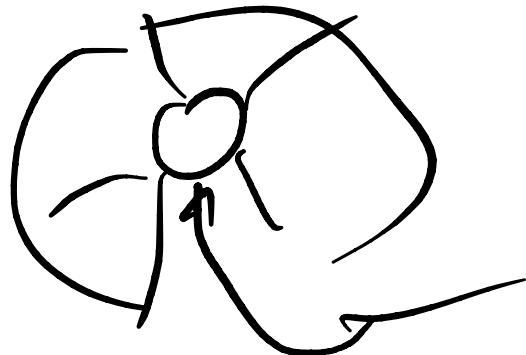
Dave Parnas



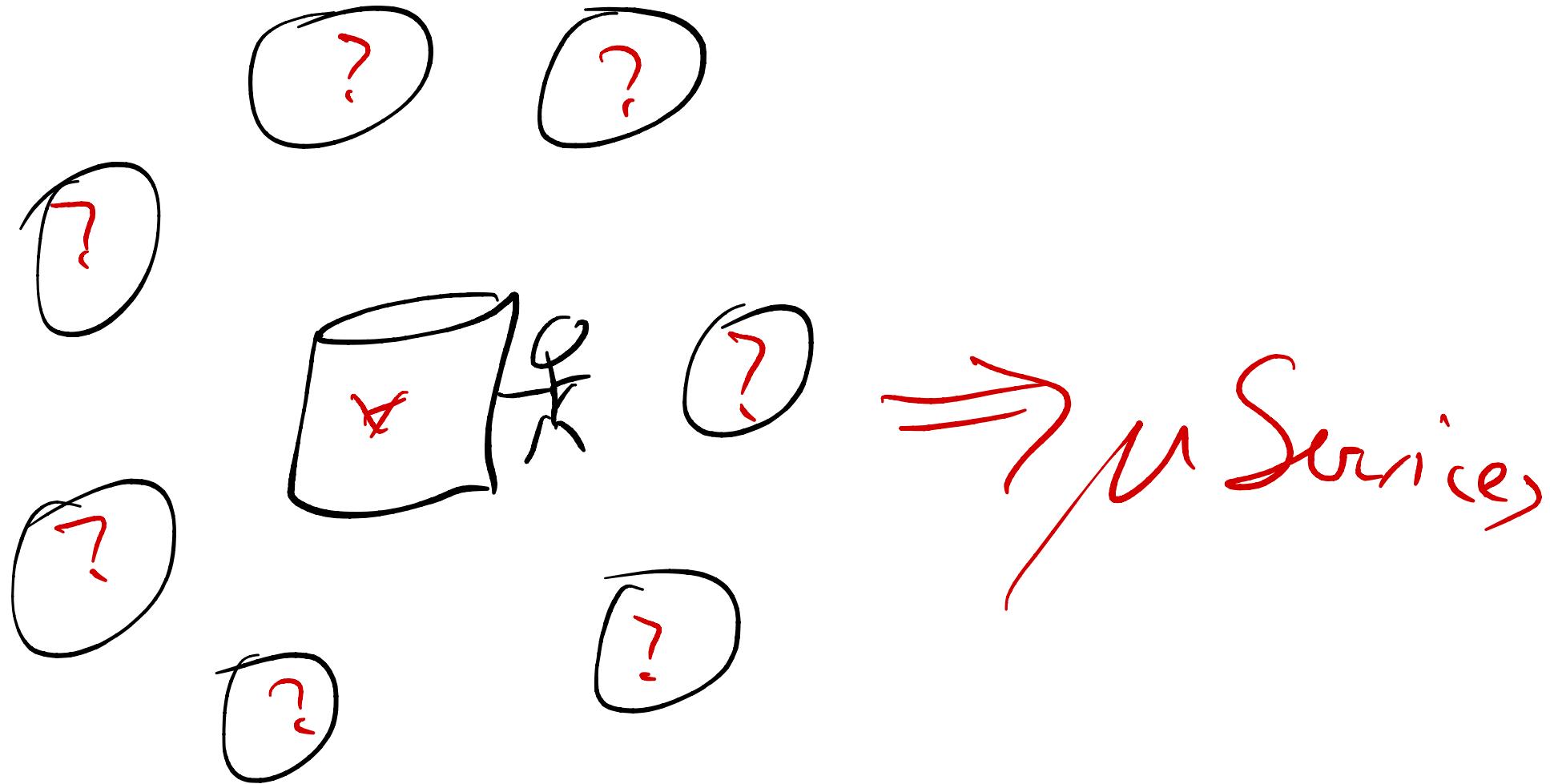
Data Hiding

1,000,000

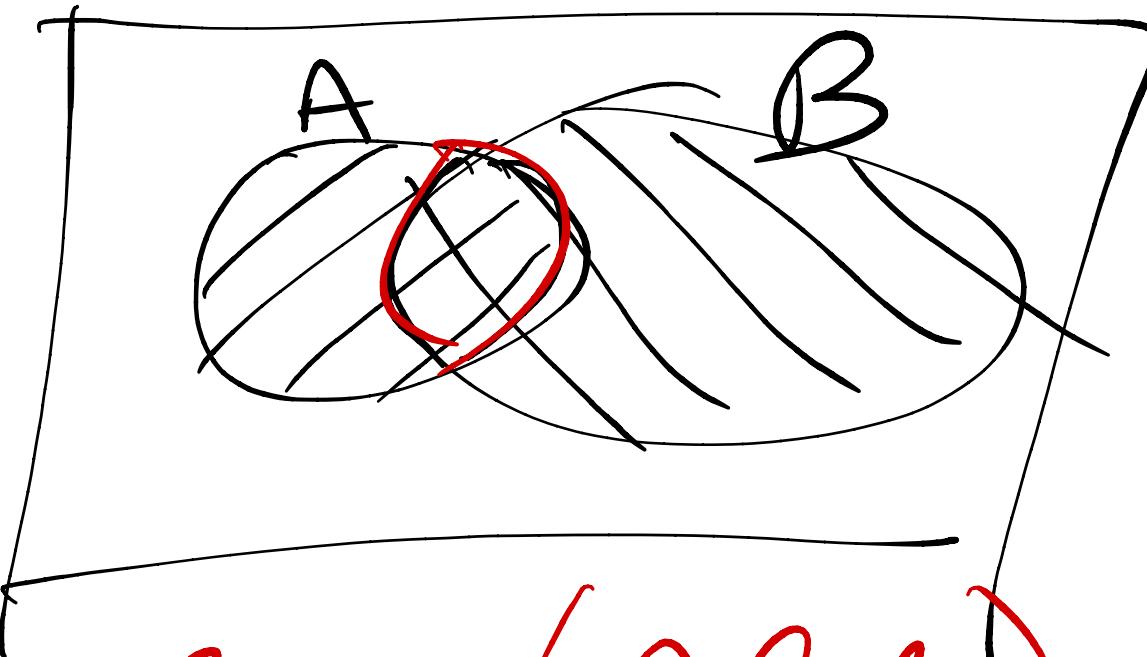
$\text{Loan}(s_0) \neq \text{null}$



83
50+



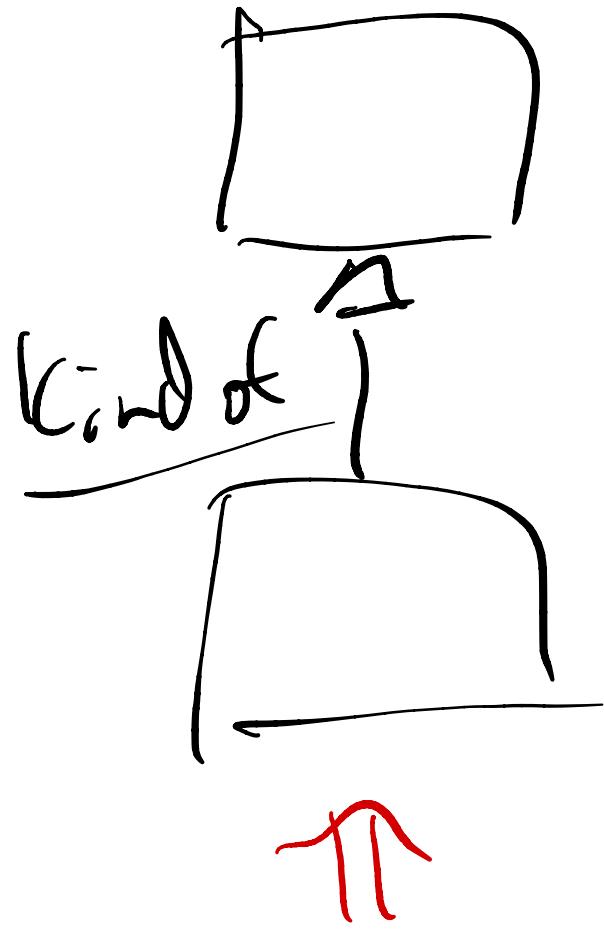
Probability



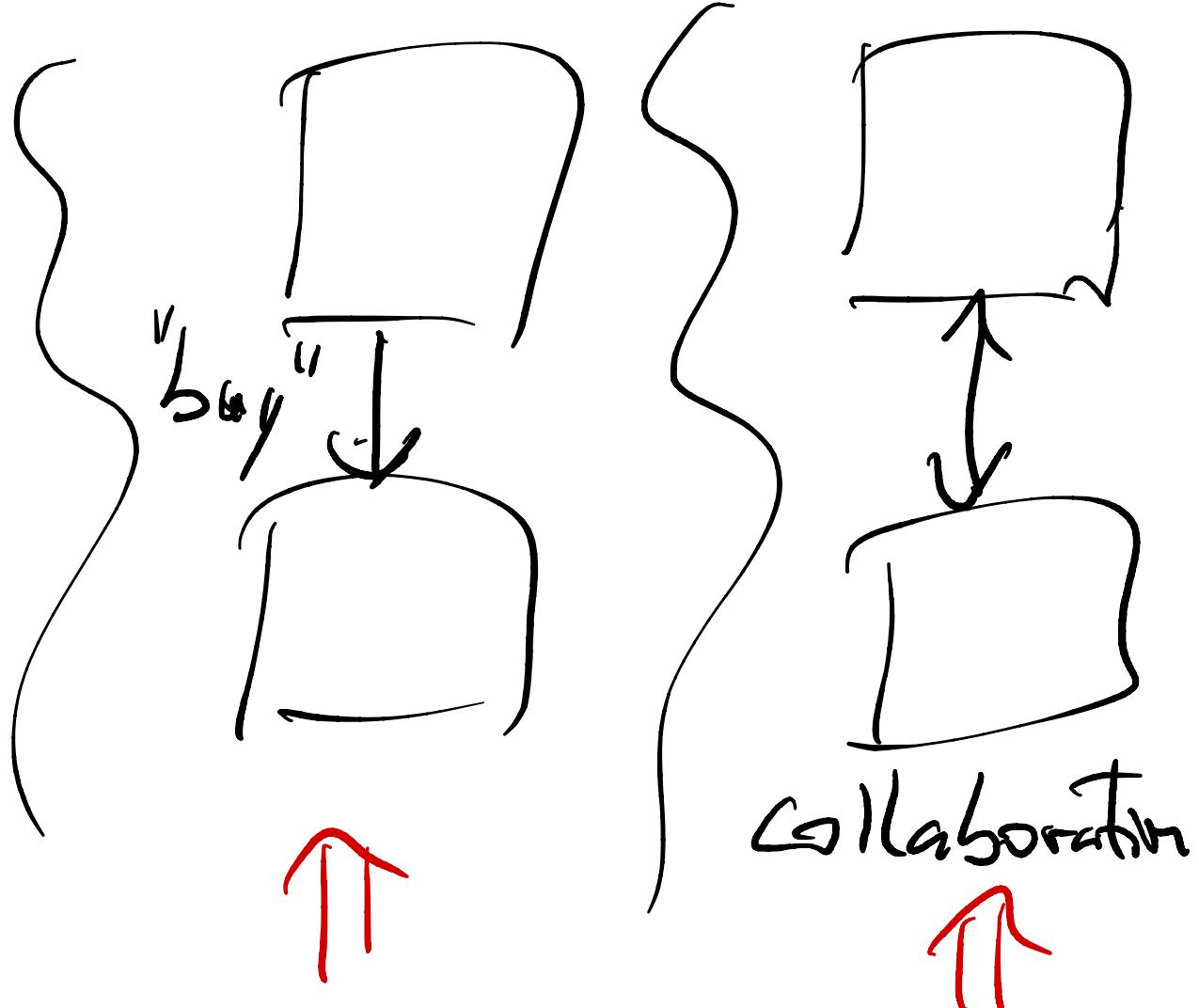
$$A + B - (A \& B)$$

De Morgan's Law

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



Kind of



"buy"

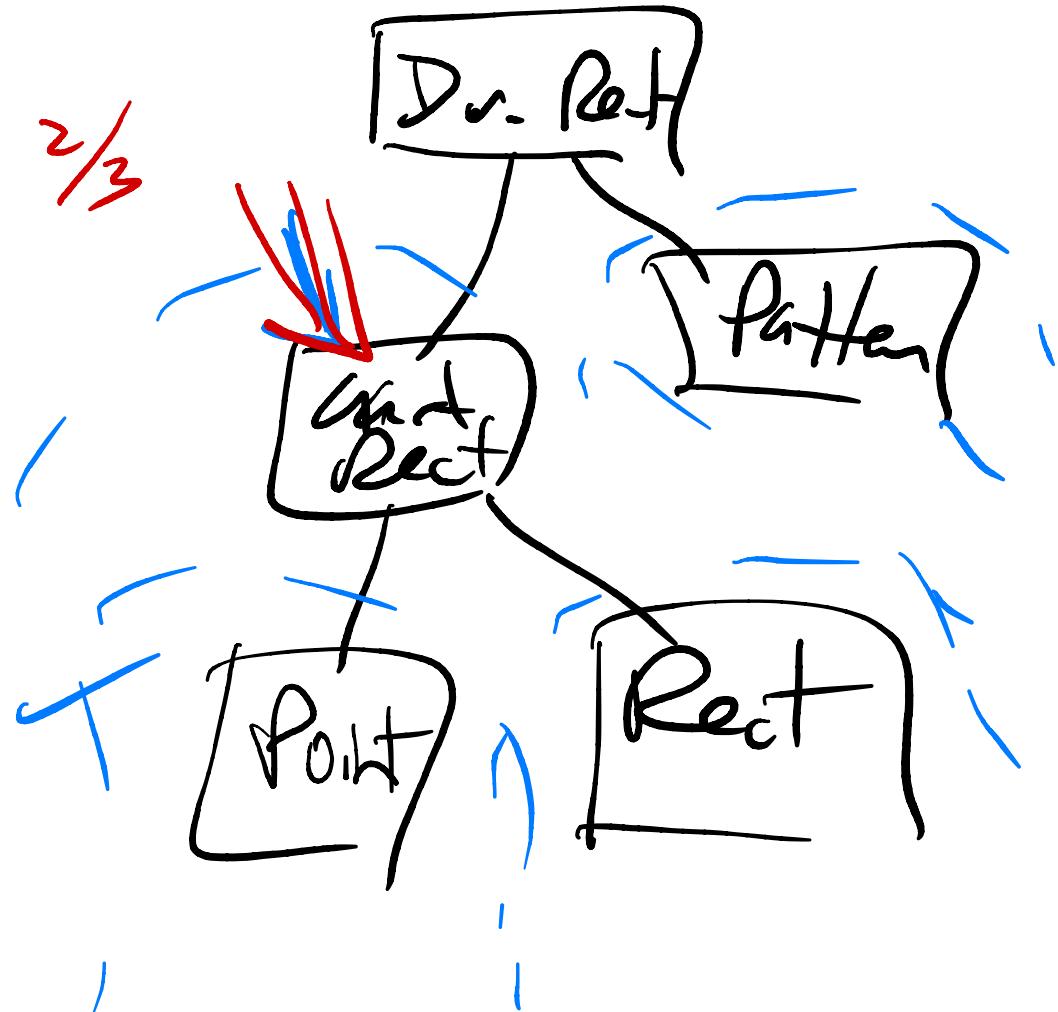
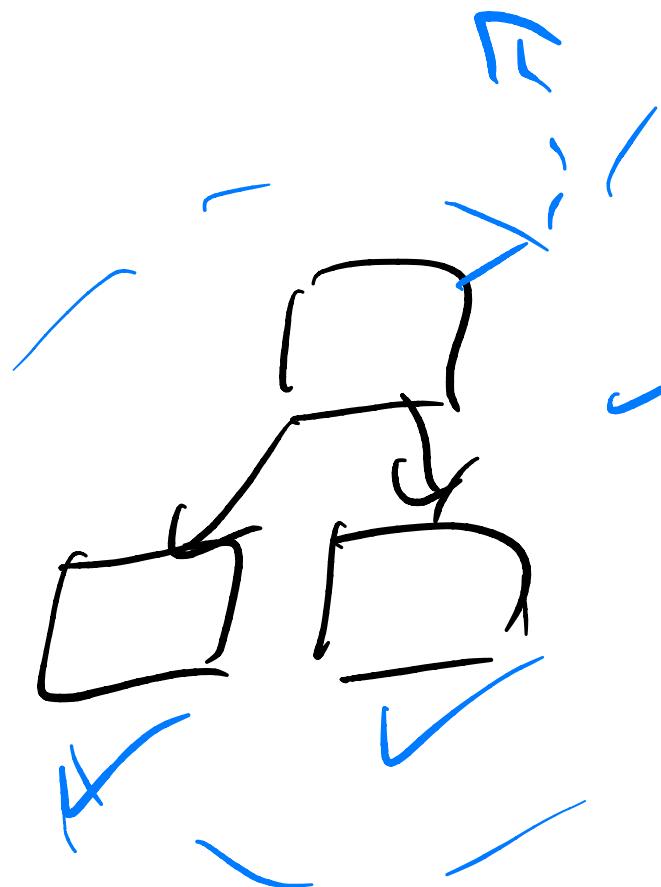
Collaboration



Bug

1400

2000 $\frac{2}{3}$



✓ Communication {

- interests
- manager
- x / chia 2 K

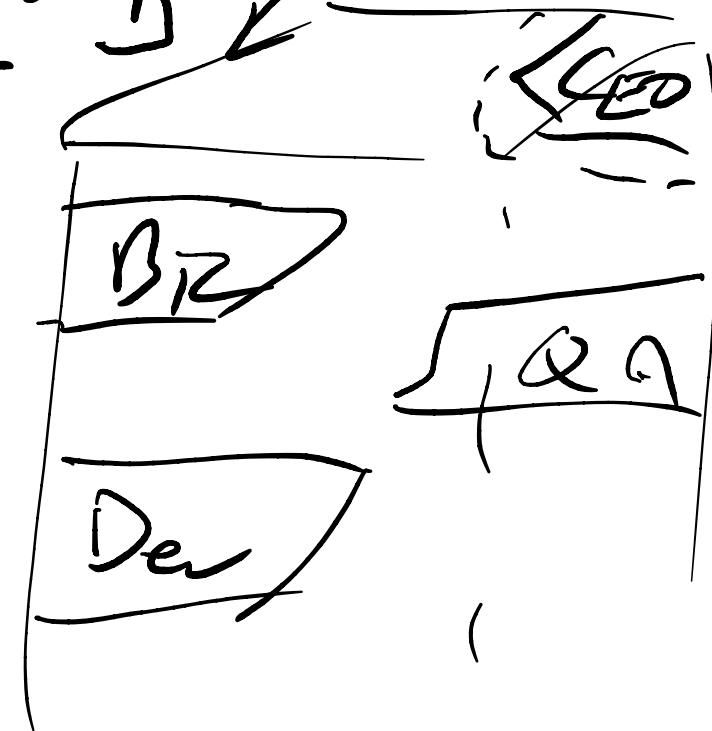
✓ Feedback

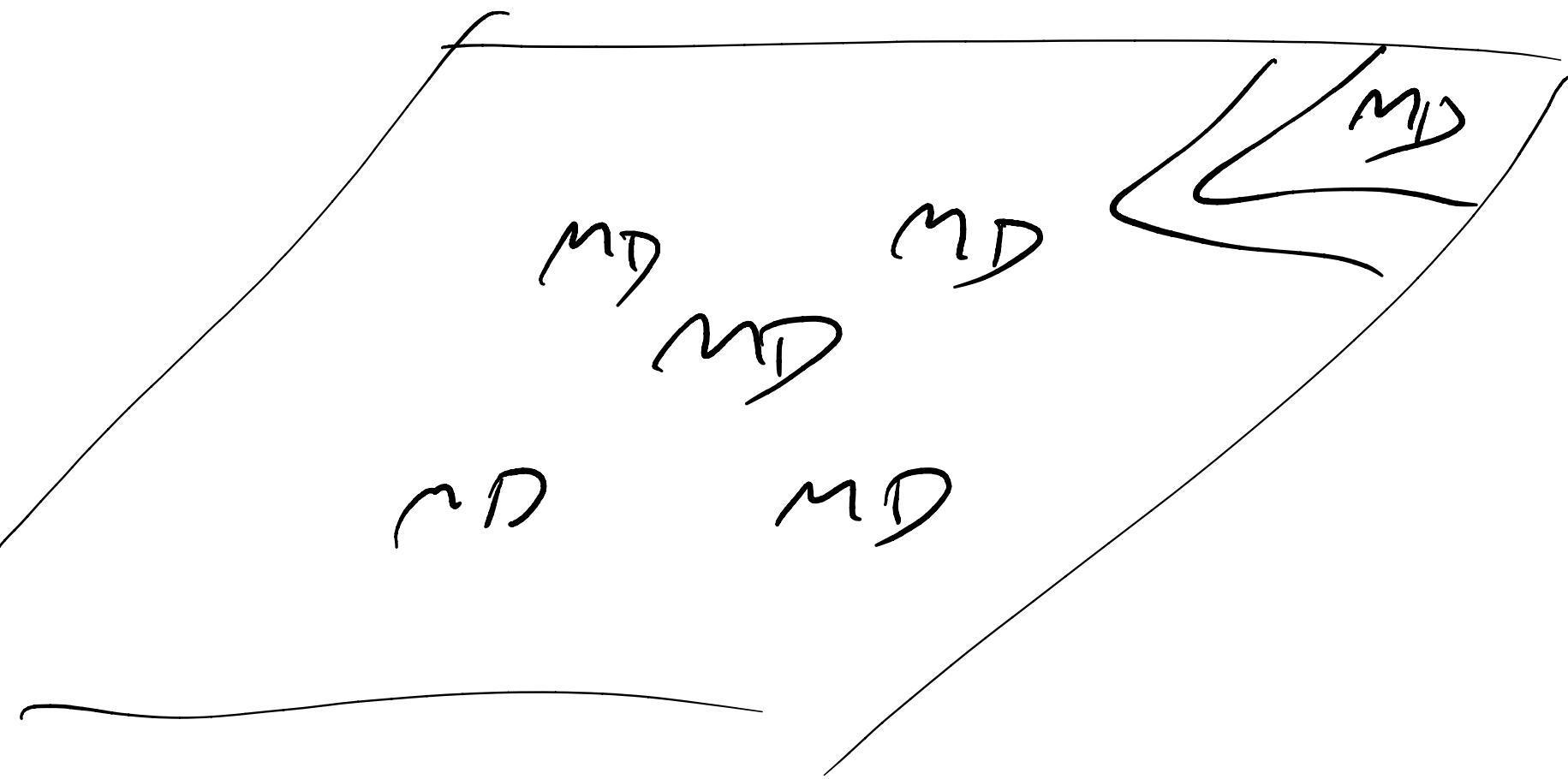
- 1) Slip
- 2) Iteration
- 3) Stand up
- 4) Pair

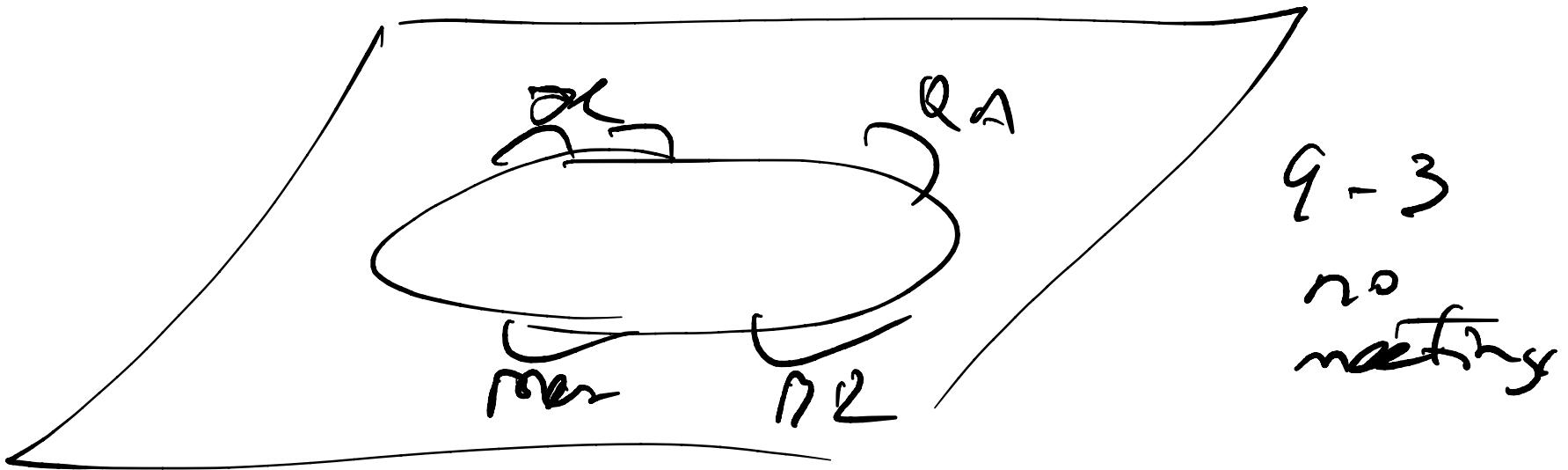
✓ Simplicity
LEGOK

✓ Courage

✓ Respect







Courage



Kills innovation

Estimates

1 tablespoon = 3 teaspoons

1 ounce = 2 tablespoons

1 cup = 8 ounces

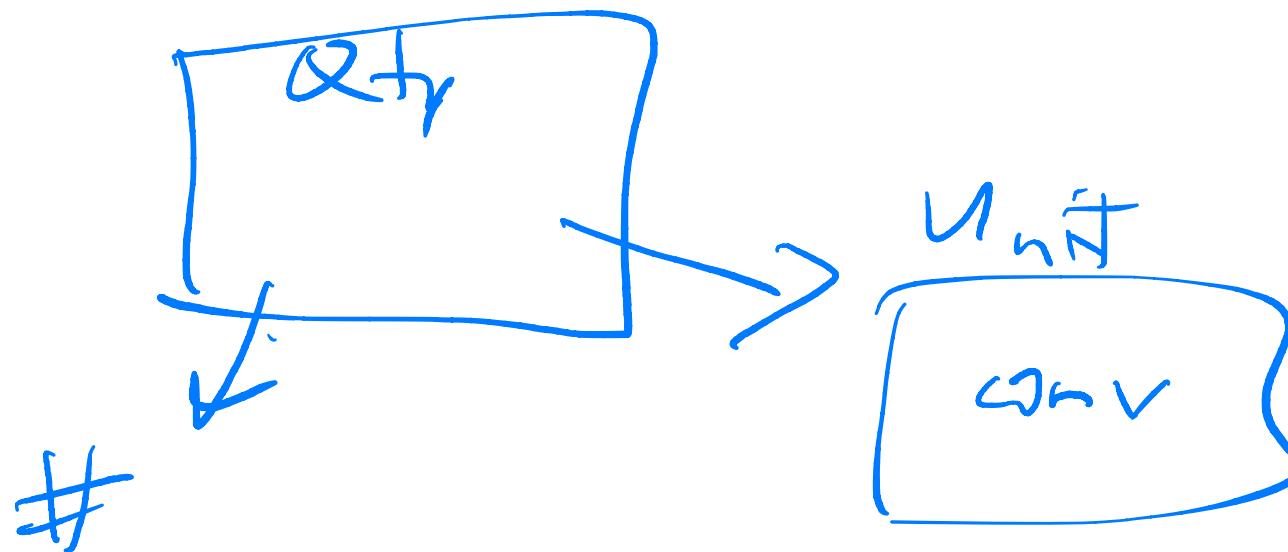
1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

Quantity Pattern

⇒ Analysis Patterns by M. Fowler



2021-05-06 - 4th class

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

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

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

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

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

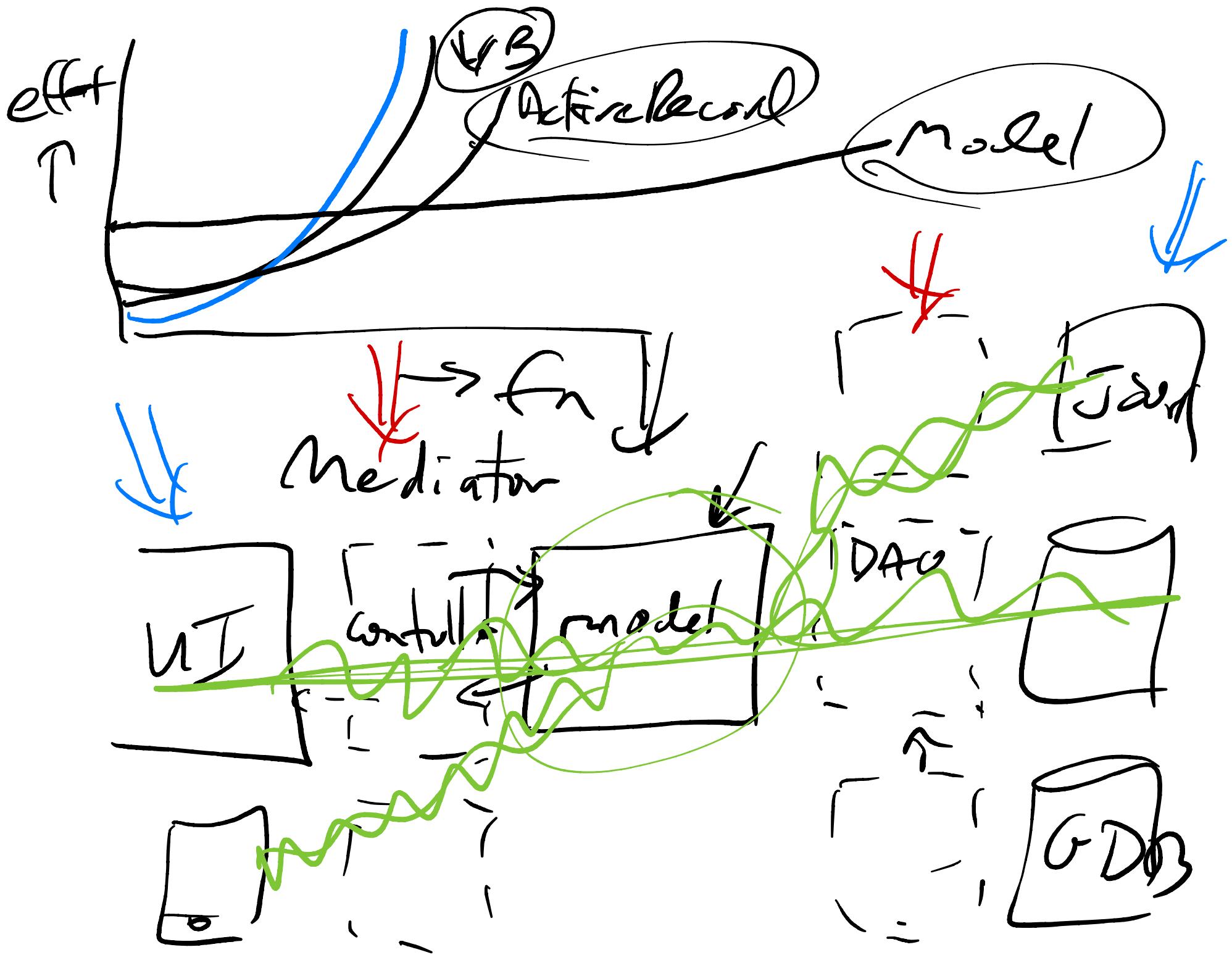
$$8 \text{ furlongs} = 1 \text{ mile}$$

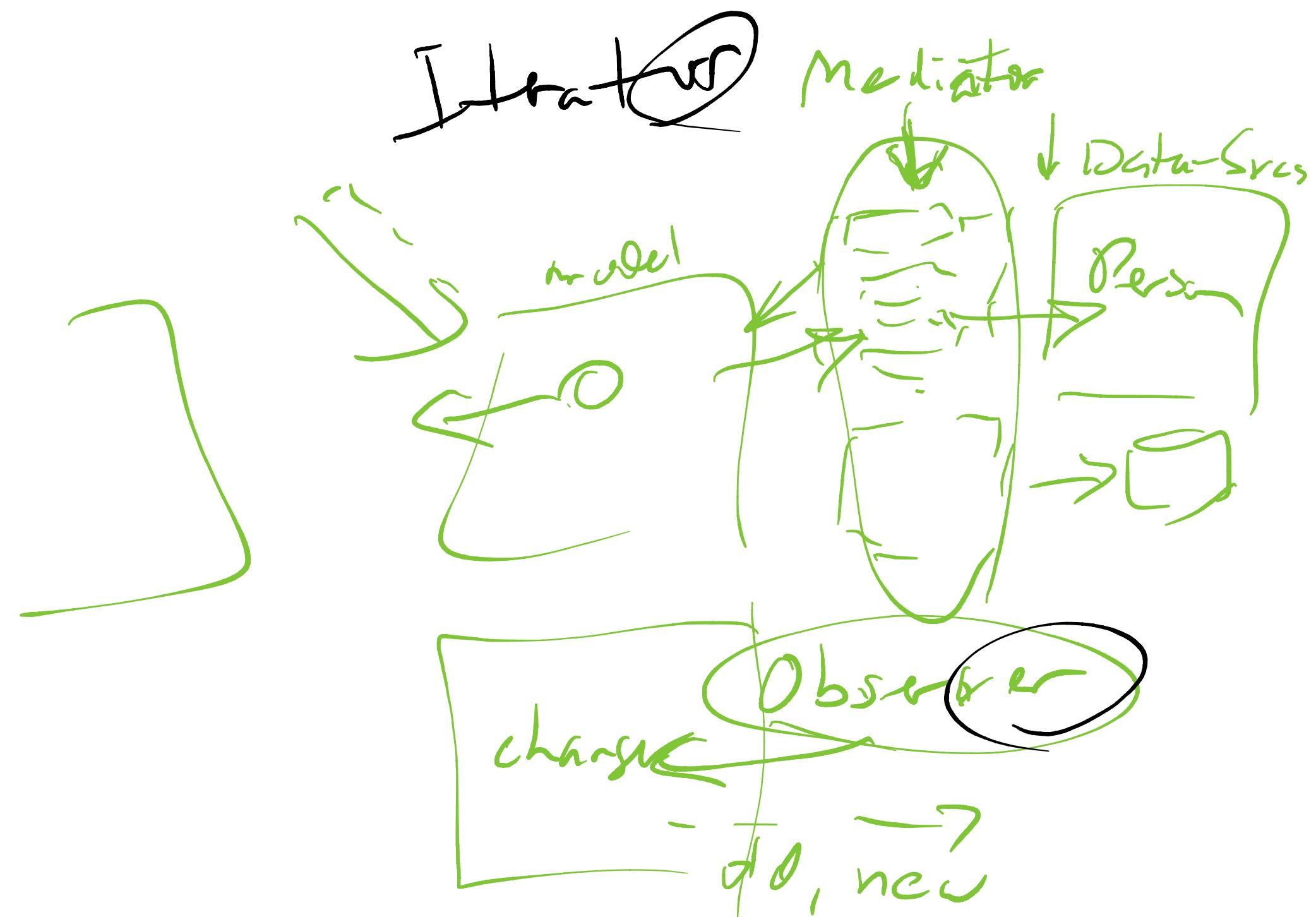
$$3 \text{ miles} = 1 \text{ league}$$

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()"





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

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

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

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

2021-05-07 - Day 5 Class

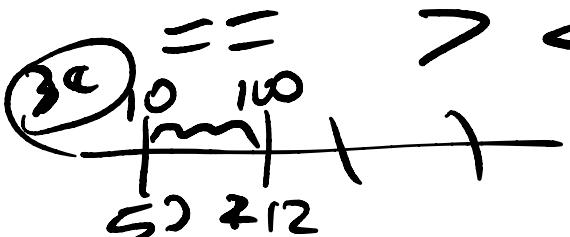
Nominal

==

Ordinal

> <

Interval



$\frac{Ag - 27}{Mar 3} >$
day

Ratio

distance, volume, area, heat

3^oC

Inheritance

→ (Almost) All code

2) Grandmother test

"kind of"



Square

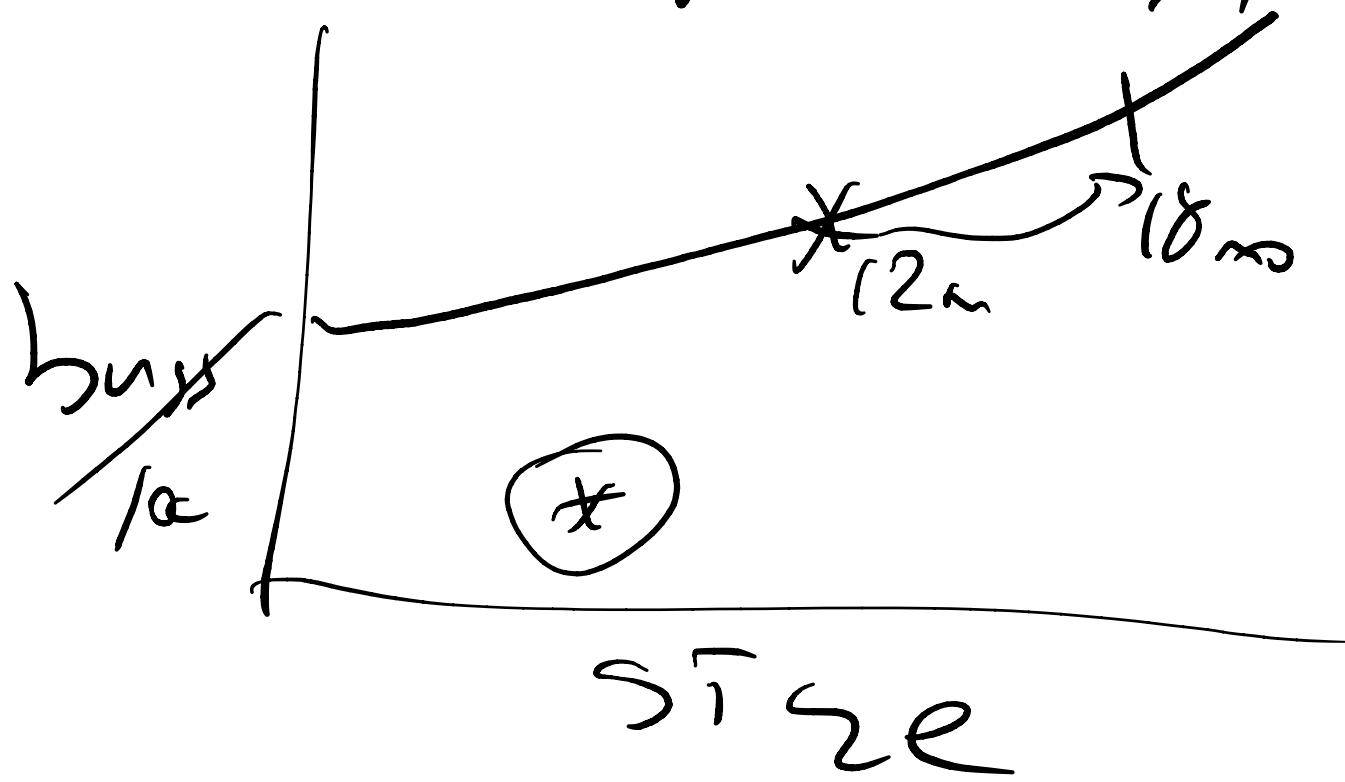
Computational Complexity
McCabe complexity



Quicks code
Quicks test >

Quicks
(2 hrs) >

$\frac{1}{3}$ Design Path \rightarrow Kill



if = suspicious

- guard clause
- embedded
- nested

else (almost) always

case
Mediators
envm
?:

⇒ null - Null Object Pattern

⇒ strings

⇒ Boolean

≈ 1.2 - 1.4 !
≈ 100

~~if x = blue () then ()~~

~~if x = ble ()~~

~~if x = ble~~

~~if x - ble from x~~

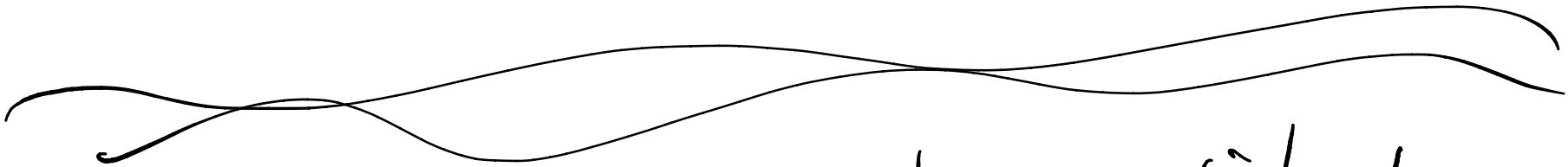
~~if ble~~

~~if bla~~

Algorithm

- finds Rect. \Rightarrow area

Polymorphism \Rightarrow Interface



Probability least likely