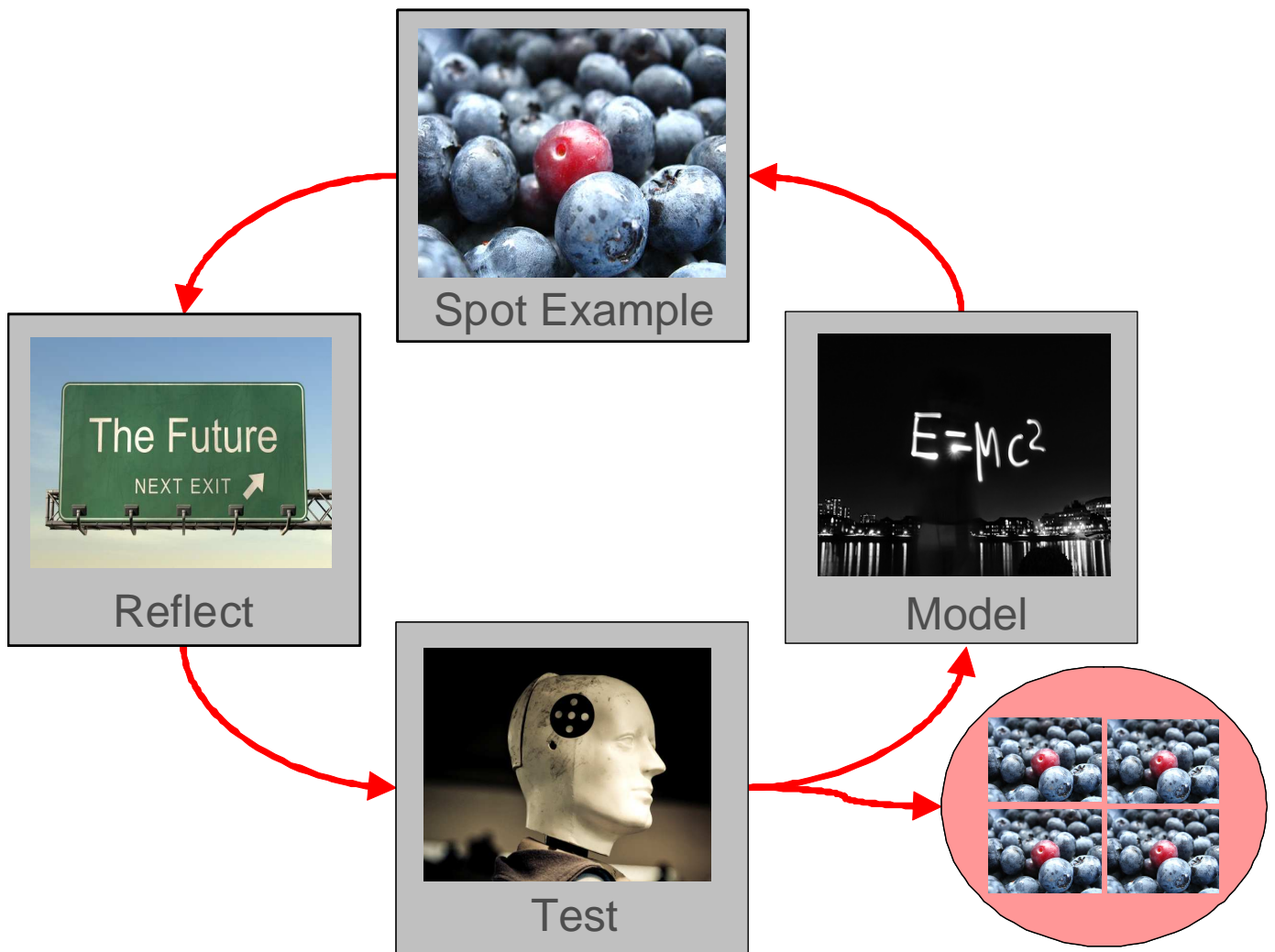
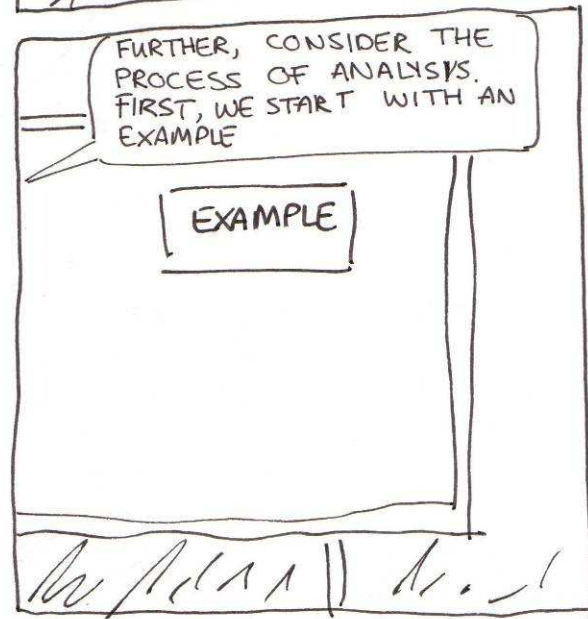
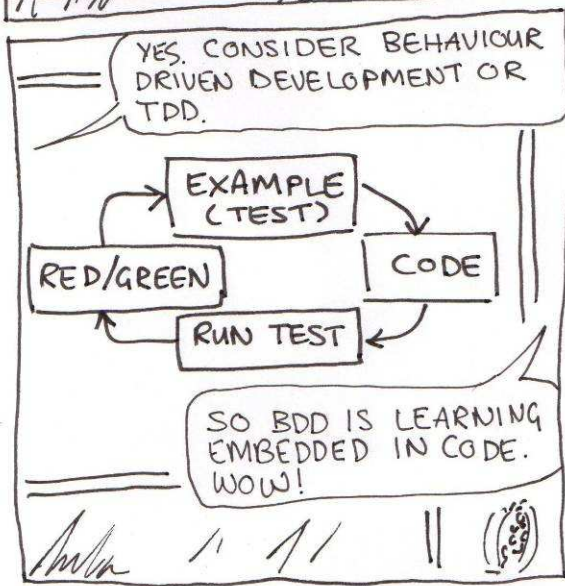
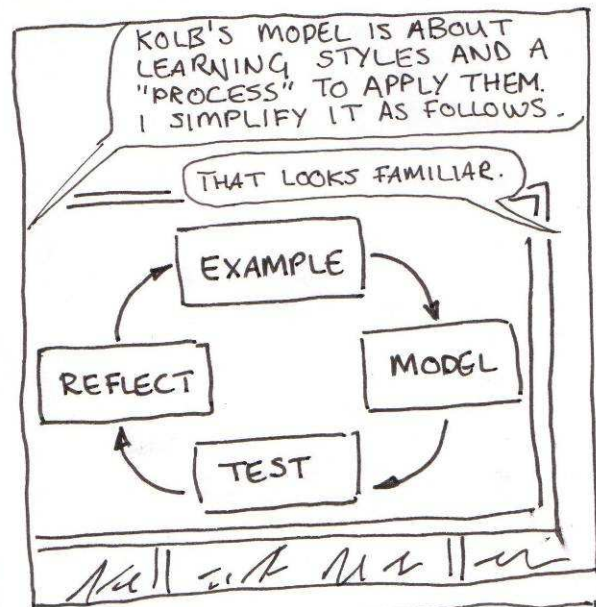
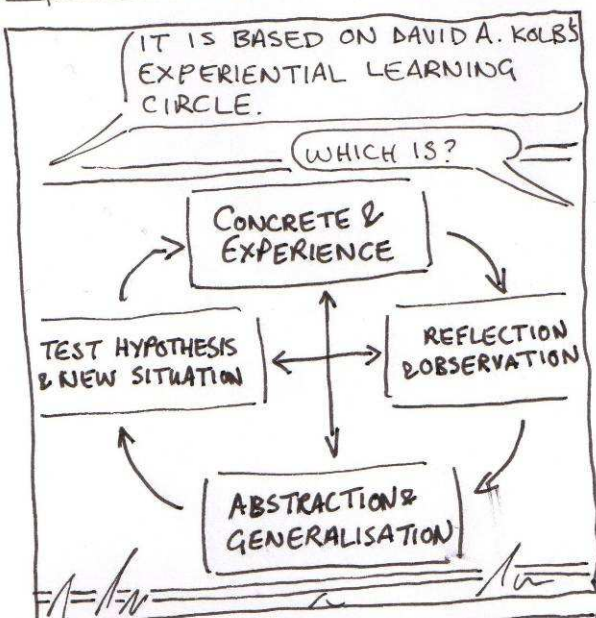


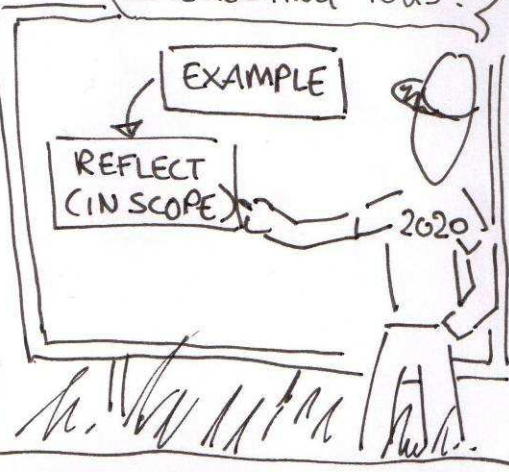
Episode 4 – Break the Model





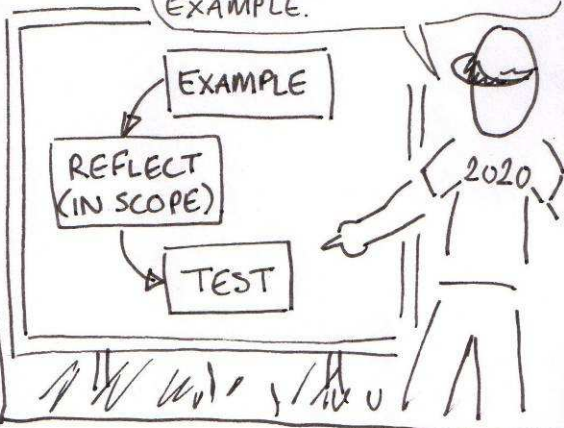
THEN WE CONSIDER WHETHER THE EXAMPLE IS IN SCOPE.

SO, IS THE EXAMPLE INTERESTING TO US?



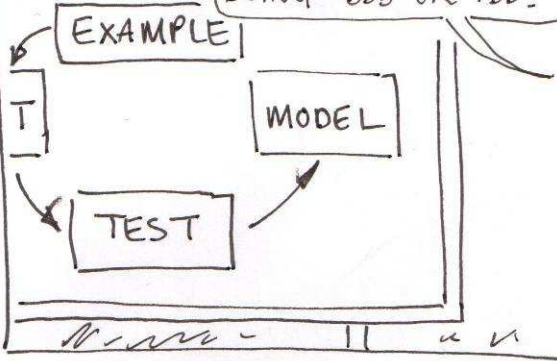
NOW WE CREATE THE TEST OR RATHER THE MINIMUM DATA THAT REPRESENTS THE ~~DATA~~EXAMPLE.

AS IN, THE KEY CHARACTERISTICS OF THE EXAMPLE.



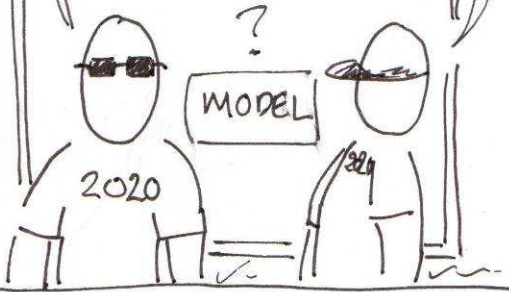
AND FROM THIS WE CREATE A MODEL.

WHY DO WE NEED THE MODEL IF WE ARE DOING BDD OR TDD?



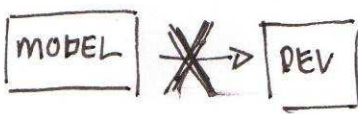
WE USE THE MODEL TO STRUCTURE QUESTIONS THAT WILL IDENTIFY FURTHER EXAMPLES

SO IT IS NOT USED TO DRIVE THE DEVELOPMENT AS IT IS IN RUP OR MDD?

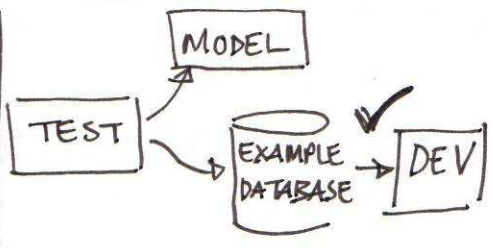


DEFINITELY NOT! THE EXAMPLES DRIVE THE DEVELOPMENT, THE MODEL IS A LEARNING TOOL.

CAN YOU GIVE ME AN EXAMPLE?

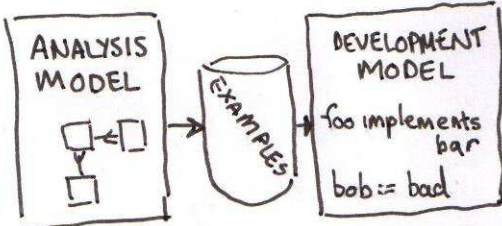


YES. BUT FIRST I NEED TO MODIFY THE DIAGRAM, AS WE CREATE AN EXAMPLE ^{WE STORE IT} IN THE EXAMPLE DATABASE. THIS ^{IS} WHAT DRIVES DEVELOPMENT.



SO THE ANALYSIS MODEL AND PHYSICAL MODEL ARE DECOUPLED. THE EXAMPLES FORM THE INTERFACES.

HOW ABOUT THAT EXAMPLE?



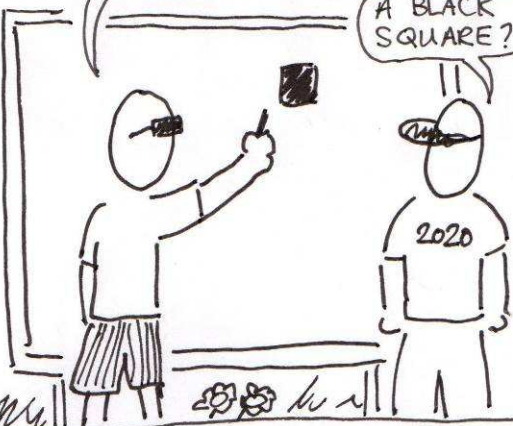
IMAGINE WE ARE IMPLEMENTING A PURPLE WIDGET SCORE REPORT. THE PURPLE WIDGET CALCULATION IS A BLACK BOX.

O.K. A BIT LIKE DELTA IN THE LAST EXAMPLE.

DEPARTMENT	P.W.S.
ENGINEERING	20%
H.R.	1%
SALES.	80%

SO NOW WE NEED TO FIND ALL THE PURPLE WIDGET TYPES AS INPUT. OUR FIRST EXAMPLE IS THIS.

A BLACK SQUARE?



FOR THIS EXAMPLE EXERCISE, LET US MARK SCOPE WITH A TICK OR CROSS WHICH WILL RANDOMLY CHOSE. SO OUR MODEL IS?

A BLACK SQUARE

EXAMPLES	MODEL
■ ✓	BLACK SQUARE

BLACK IS A COLOUR. SO WE ASK OUR BUSINESS. "DO YOU HAVE ANY SQUARES THAT ARE NOT BLACK. WHITE FOR EXAMPLE.

ANOTHER QUESTION FOR THE ISSUE LOG. AND OUR MODEL WOULD BE A BLACK OR WHITE SQUARE.

EXAMPLES	MODEL
■ ✓	BLACK SQUARE
□ ✓	B/W SQUARE

AND THE NEXT OBVIOUS QUESTION?

ANY NON BLACK OR WHITE SQUARES? RED, BLUE... ANY WOULD BREAK THE MODEL

EXAMPLES	MODEL
■ ✓	BLACK SQUARE
□ ✓	B/W SQUARE
▣ ✓	COLOURED SQUARE

SO NOW WE CAN ASK IF THERE ANY EXAMPLES THAT ARE NOT SQUARES.... TRIANGLE ETC.

SO THE DISCUSSION IS BASED ON CONCRETE EXAMPLES RATHER THAN ABSTRACT MODELS

EXAMPLES

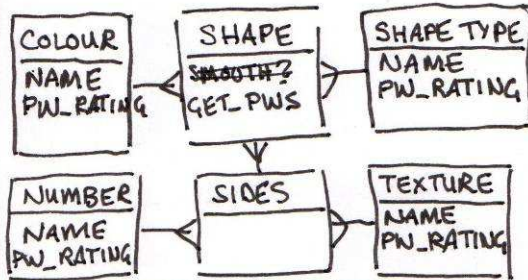


MODEL

~~BLACK SQUARE~~
~~B/W SQUARE~~
COLOURED SQUARE
STRAIGHT SIDED SHAPE
SMOOTH SIDED SHAPE
COLOURED SHAPE

AND EACH EXAMPLE BREAKS THE MODEL, WHICH HELPS US FIND A MORE ENCOMPASSING ONE.

SO THE "BREAK THE MODEL" PROCESS HELPS US "CHUNK UP" AS EDWARD DE BONO CALLS IT.



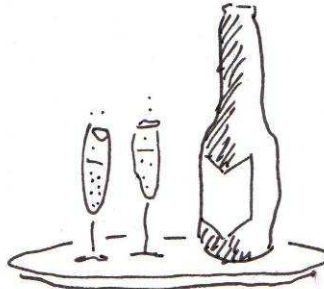
SO RATHER THAN PROTECT THE MODEL ...

WE HELP THE BUSINESS TO BREAK IT, GIVING THEM QUESTIONS THAT WILL BREAK IT.

WEAK POINT!
ONE OR MANY

IN FACT ON ONE PROJECT, WE OFFERED A BOTTLE OF CHAMPAGNE FOR EVERY EXAMPLE THAT BROKE THE MODEL.

WHAT HAPPENED?



NO ONE BOTHERED. BUT THEN ONE GUY FOUND ONE AND WE PRESENT HIM WITH THE CHAMPAGNE AT A PROJECT MEETING.

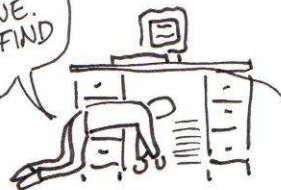
THEN WHAT?



THEY TORE THE DEPARTMENT APART LOOKING FOR EXAMPLES. AND WE HANDED OUT SIX MORE BOTTLES OF CHAMPAGNE.

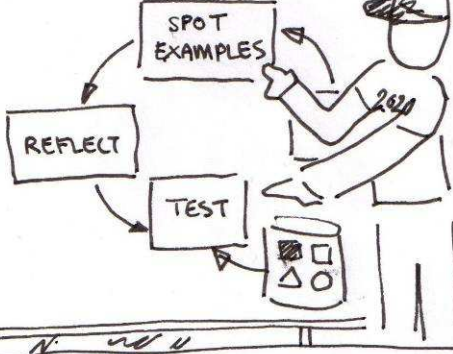
I GET IT. STATUS!

IF HE CAN FIND ONE. I CAN FIND FIVE!



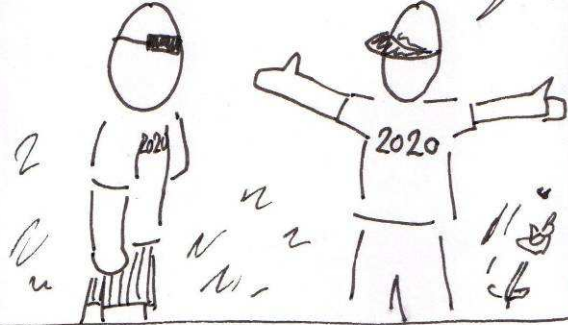
SO WHAT ARE THE HARDEST PARTS OF THIS PROCESS?

SPOTTING THE EXAMPLES AND TESTING THAT A NEW MODEL STILL WORKS FOR PAST EXAMPLES.



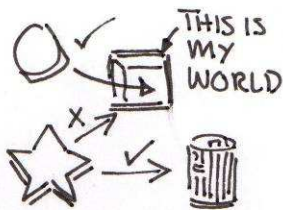
WHICH DIFFERENT PEOPLE CAN AND SHOULD DO. A SCALABLE LEARNING PROCESS.

SO THIS MODIFIED VERSION OF KOLB IS A DISTRIBUTED COGNITION SYSTEM, COOL!



SPOTTING EXAMPLES THAT BREAK THE MODEL IS HARD. THE MODEL CAN CREATE A FILTER. WE EITHER SHOE HORN EXAMPLES THAT DO NOT FIT INTO THE MODEL, OR

WE IGNORE THEM FOR FEAR OF BREAKING THE MODEL.



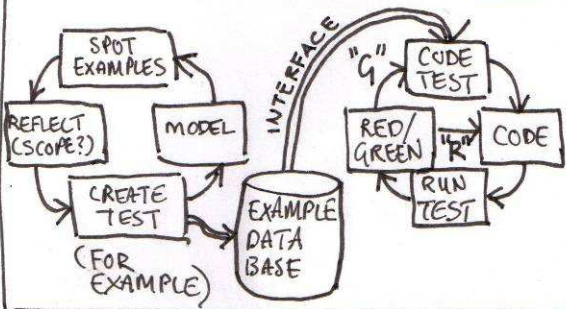
LOOK AT OUR PURPLE WIDGET MODELS AND EXAMPLES. EVERY NEW EXAMPLE RESULTED IN A NEW MODEL BUT WAS SIMPLY AN ADDITION TO THE DATABASE.

SO THE MODEL IS UNSTABLE BUT THE EXAMPLE LIST IS STABLE.

EXAMPLES	MODEL
■	BLACK SQUARE
□	B/W SQUARE
▨	COLOURED SQUARE
△	STRAIGHT SIDED SHAPE

WHICH IS ONE OF THE REASONS WHY THE INTERFACE BETWEEN THE ANALYSIS PROCESS AND DEVELOPMENT PROCESS SHOULD BE THE EXAMPLES AND NOT THE MODEL.

ANY OTHERS?



IT MEANS THE TWO PROCESSES ARE HIGHLY COHESIVE AND LOOSELY COUPLED.

SOUNDS FAMILIAR, LIKE THE BEATLES OR SOMETHING FROM THE SIXTIES.

