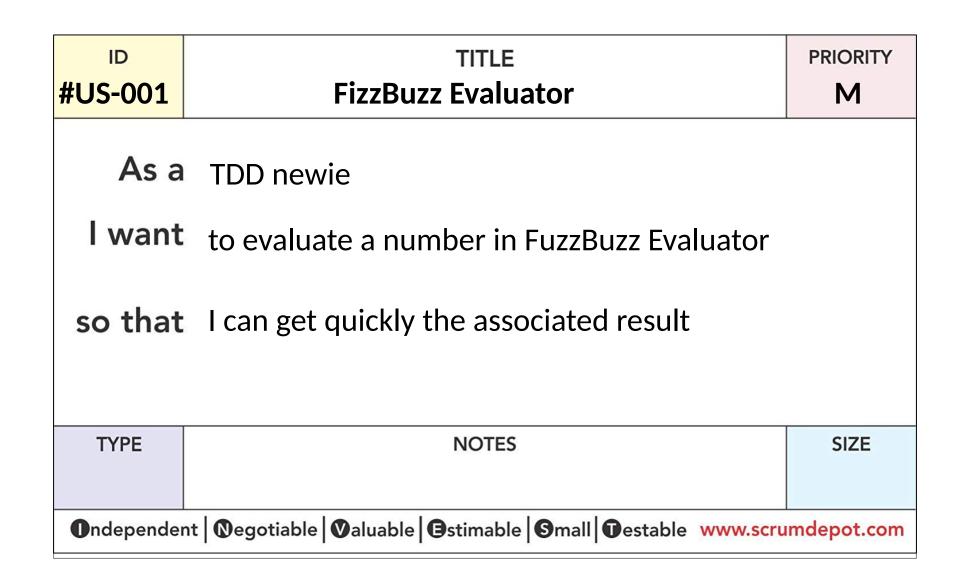


Taller de Code Kata

Criteris d'acceptació



Scenario: Numbers that are not multiple of 3 and/or 5

Given my FizzBuzz Evaluator

When I evaluate the number < number >

Then the result will be <number>

Examples: 1, 2, 4, 8, 11, 13, 16, 17, 19

Acceptance Criteria

Scenario: Numbers that are multiple of 3

Given my FizzBuzz Evaluator

When I evaluate the number < number >

Then the result will be Fizz

Examples: 3, 6, 9, 12

Acceptance Criteria

Scenario: Numbers that are multiple of 5

Given my FizzBuzz Evaluator

When I evaluate the number < number >

Then the result will be Buzz

Examples: 5, 10, 20, 25

Acceptance Criteria

Scenario: Numbers that are multiple of 3 and 5

Given my FizzBuzz Evaluator

When I evaluate the number < number >

Then the result will be FizzBuzz

Examples: 15, 30, 45, 60

ID TITLE **PRIORITY** #US-001 FizzBuzzBazz Evaluator M As a young student **I want** to evaluate a number in FuzzBuzzBazz Evaluator **so that** I can get quickly the associated result **TYPE** NOTES SIZE **EPIC: Common Number Utilities** Ondependent | Negotiable | Valuable | Stimable | Small | Oestable | www.scrumdepot.com

Scenario: Numbers that are not multiple of 3, 5 and/or 7

Given my FizzBuzzBazz Evaluator

When I evaluate the number < number >

Then the result will be <number>

Examples: 1, 2, 4, 8, 11, 13, 16, 17, 19

Acceptance Criteria

Scenario: Numbers that are multiple of 3

Given my FizzBuzzBazz Evaluator

When I evaluate the number < number >

Then the result will be Fizz

Examples: 3, 6, 9, 12

Acceptance Criteria

Scenario: Numbers that are multiple of 5

Given my FizzBuzzBazz Evaluator

When I evaluate the number < number >

Then the result will be Buzz

Examples: 5, 10, 20, 25

Acceptance Criteria

Scenario: Numbers that are multiple of 7

Given my FizzBuzzBazz Evaluator

When I evaluate the number < number >

Then the result will be *Bazz*

Examples: 7, 14, 28, 49

Scenario: Numbers that are not multiple of 3 and 5

Given my FizzBuzzBazz Evaluator

When I evaluate the number < number >

Then the result will be FizzBuzz

Examples: 15, 30, 45, 60

Acceptance Criteria

Scenario: Numbers that are multiple of 3 and 7

Given my FizzBuzzBazz Evaluator

When I evaluate the number < number >

Then the result will be FizzBazz

Examples: 21, 42, 63, 84

Acceptance Criteria

Scenario: Numbers that are multiple of 5 and 7

Given my FizzBuzzBazz Evaluator

When I evaluate the number < number >

Then the result will be BuzzBazz

Examples: 35, 70, 140, 175

Acceptance Criteria

Scenario: Numbers that are multiple of 3, 5 and 7

Given my FizzBuzzBazz Evaluator

When I evaluate the number < number >

Then the result will be FizzBuzzBazz

Examples: 105, 210, 420, 630

ID TITLE **PRIORITY** Convert from decimal to roman #US-002 M **As a** Math enthusiast **l want** to convert a number from decimal to roman notation **so that** I can get quickly the associated result **TYPE** NOTES SIZE **EPIC: Common Number Utilities** Independent | Negotiable | Valuable | Stimable | Small | Testable | www.scrumdepot.com

Scenario: Convert base numbers from decimal to roman

Given my decimal to roman conversor **When** I convert the decimal number *<decimal>* to roman **Then** the roman number will be *<roman>*

Examples:

1	1	
4	IV	
5	V	
9	IX	
10	Χ	
40	XL	
50	L	
90	XC	
100	C	
400	CD	
500	D	
900	CM	
1000	М	

Acceptance Criteria

Scenario: Convert complex numbers from decimal to roman

Given my decimal to roman conversor **When** I convert the decimal number *<decimal>* to roman **Then** the roman number will be *<roman>*

CCLVVVIV

Examples:

2	II	289	CCLXXXIX
3	III	78	LXXVIII
6	VI	256	CCLVI
7	VII	395	CCCXCV
20	XX	228	CCXXVIII
21	XXI	1997	MCMXCVII
1903	MCMIII	472	CDLXXII
33	XXXIII	898	DCCCXCVIII
147	CXLVII	2010	MMX
33	XXXIII	769	DCCLXIX
147	CXLVII	3548	MMMDXLVIII
365	CCCLXV	2971	MMCMLXXI
94	XCIV		

ID TITLE **PRIORITY** #US-003 Convert from roman to decimal M **As a** Math enthusiast **l want** to convert a number from roman to decimal notation **so that** I can get quickly the associated result **TYPE** NOTES SIZE **EPIC: Common Number Utilities** Independent | Negotiable | Valuable | Stimable | Small | Testable | www.scrumdepot.com

Scenario: Convert base numbers from roman to decimal

Given my roman to decimal conversor **When** I convert the roman number *<roman>* to decimal **Then** the decimal number will be *<decimal>*

Examples:

Acceptance Criteria

Scenario: Convert complex numbers from roman to decimal

Given my roman to decoma conversor **When** I convert the roman number *<roman>* to decimal **Then** the decimal number will be *<decimal>*

Examples:

2	CCLXXXIX	289
3	LXXVIII	78
6	CCLVI	256
7	CCCXCV	395
20	CCXXVIII	228
21	MCMXCVII	1997
1903	CDLXXII	472
33	DCCCXCVIII	898
147	MMX	2010
33	DCCLXIX	769
147	MMMDXLVIII	3548
365	MMCMLXXI	2971
94		
	3 6 7 20 21 1903 33 147 33 147 365	3 LXXVIII 6 CCLVI 7 CCCXCV 20 CCXXVIII 21 MCMXCVII 1903 CDLXXII 33 DCCCXCVIII 147 MMX 33 DCCLXIX 147 MMMDXLVIII 365 MMCMLXXI

ID TITLE **PRIORITY** #US-004 **Prime Factors Generator** M **As a** Math enthusiast I want to get a list with prime factors of a given number **so that** I can get quickly the associated result **TYPE** NOTES SIZE **EPIC: Common Number Utilities** Independent | Negotiable | Valuable | Stimable | Small | Testable | www.scrumdepot.com

Scenario: Prime factors of prime numbers

Given a Prime Factors Generator

When I evaluate the prime factors of <*number*>

Then the prime factors list is *<result>*

Examples:

2 [2]

3 [3]

5 [5]

7 [7]

11 [11]

13 [13]

17 [17]

19 [19]

23 [23]

29 [29]

31 [31]

Acceptance Criteria

Scenario: Prime factors of not prime numbers

Given a Prime Factors Generator

When I evaluate the prime factors of *<number>*

Then the prime factors list is *<result>*

Examples:

4 [2,2]

[2,3]

 $\begin{bmatrix} 2,2,2 \end{bmatrix}$

[3,3]

12 [2,2,3]

24 [2,2,2,3]

72 [2,2,2,3,3]

75 [3,5,5]

204 [2,2,3,17]

450 [2,3,3,5,5]

1092 [2,2,3,7,13]

ID TITLE **PRIORITY Math Expression Evaluator** #US-005 M **As a** Math enthusiast I want to evaluate simple math expressions stored in string **so that** I can get quickly the associated result **TYPE** NOTES SIZE **EPIC: Common Number Utilities** Independent | Negotiable | Valuable | Stimable | Small | Testable | www.scrumdepot.com

Scenario: Evaluate basic math expressions

Given a math expression evaluator

When I evaluate the math expression *<expression>*

Then the math result will be <result>

Examples:

3 + 5 - 5

3 * 5 * 2

```
3 + 5
2 - 3
4 * 2
4/2
3 % 2
            16
1+15
12-3
5-3
3*2
3/2
        1.5
4%2
3 + 5 + 10
            18
```

Acceptance Criteria

Scenario: Evaluate math expressions with operators precedence

Given a math expression evaluator

When I evaluate the math expression *<expression>*

Then the math result will be *<result>*

Examples:

Scenario: Evaluate math expressions with parenthesis

Given a math expression evaluator **When** I evaluate the math expression *<expression>* **Then** the math result will be *<result>*

Examples:

(3 + (-3))	0
(3 + -3)	0
(3 + 5)	8
((3+5))	8
(3*2+5)	11
(10+2*6)	22
(100 * 2) + 12	212
100 * (2 + 12)	1400
100 * (2 + 12) / 14	100
((20-10)*(30-20)+10)*2	220
(((20 - 10)) * (30 - 20) + 10) * 2	220
((20-10)*(30-20)/10+10)*2	40

Acceptance Criteria

Scenario: Evaluate invalid math expressions

Given a math expression evaluator **When** I evaluate the illegal math expression *<expression>* **Then** a math invalid expression error will be thrown
Examples:

```
hola
2 x 1
2 * a
2 * 3 + a
(2 + 3)
2 + 3
2 + 3 +
* 3 - 5
2 + 3
((2+3)
2 + 3))
((20-10)*30-20)+10)*2
(((20-10)*(30-20)+10)*2
((20-10)*(30-20/10+10)*2
```

ID TITLE **PRIORITY #US-006 Conway's Game of Life** As a Agile Developer to implements Conway's Game of Life so that I can practice ATDD and TDD **TYPE** NOTES SIZE See acceptance criterias to determine rules Ondependent | Negotiable | Valuable | Stimable | Small | Oestable | www.scrumdepot.com

Scenario: Center dead cell with 0 live neighbors dies

Given the following board

| ? ? ? | | | | | | | |

When I evolve the universe

Then the center cell should be **dead**

Acceptance Criteria

Scenario: Center dead cell with 2 live neighbors dies

Given the following board

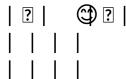
When I evolve the universe

Then the center cell should be dead

Acceptance Criteria

Scenario: Center dead cell with 1 live neighbor dies

Given the following board



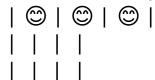
When I evolve the universe

Then the center cell should be **dead**

Acceptance Criteria

Scenario: Center dead cell with 3 live neighbors lives

Given the following board



When I evolve the universe

Then the center cell should be live

Scenario: Center dead cell with 4 live neighbors dies

Given the following board

- | © | © | © | | | | |© | | | |
- When I evolve the universe

Then the center cell should be **dead**

Acceptance Criteria

Scenario: Center dead cell with 6 live neighbors dies

Given the following board

- | 😂 | ? | ? |

When I evolve the universe

Then the center cell should be dead

Acceptance Criteria

Scenario: Center dead cell with 5 live neighbor dies

Given the following board

When I evolve the universe

Then the center cell should be **dead**

Acceptance Criteria

Scenario: Center dead cell with 7 live neighbors dies

Given the following board

When I evolve the universe

Then the center cell should be **dead**

Scenario: Center dead cell with 8 live neighbors dies

Given the following board

When I evolve the universe

Then the center cell should be **dead**

Acceptance Criteria

Scenario: Center live cell with 1 live neighbor dies

Given the following board

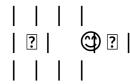
When I evolve the universe

Then the center cell should be dead

Acceptance Criteria

Scenario: Center live cell with 0 live neighbors dies

Given the following board



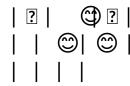
When I evolve the universe

Then the center cell should be dead

Acceptance Criteria

Scenario: Center live cell with 2 live neighbors lives

Given the following board



When I evolve the universe

Then the center cell should be live

Scenario: Center live cell with 3 live neighbors lives

Given the following board

When I evolve the universe

Then the center cell should be **live**

Acceptance Criteria

Scenario: Center live cell with 5 live neighbors dies

Given the following board

When I evolve the universe

Then the center cell should be dead

Acceptance Criteria

Scenario: Center live cell with 4 live neighbors dies

Given the following board

When I evolve the universe

Then the center cell should be **dead**

Acceptance Criteria

Scenario: Center live cell with 6 live neighbors dies

Given the following board

When I evolve the universe

Then the center cell should be **dead**

Scenario: Center live cell with 7 live neighbors dies

Given the following board

When I evolve the universe

Then the center cell should be dead

Acceptance Criteria

Scenario: Center live cell with 8 live neighbors dies

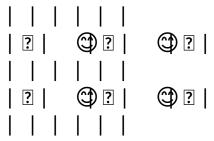
Given the following board

When I evolve the universe

Then the center cell should be **dead**

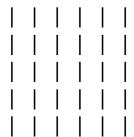
Scenario: Sparse grid with nobody staying alive

Given the following board



When I evolve the universe

Then I should see the following board



Acceptance Criteria

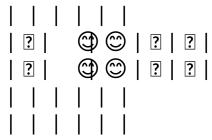
Scenario: Over-crowded grid

Given the following board

When I evolve the universe

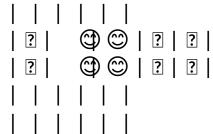
Scenario: Static Structure > Block

Given the following board



When I evolve the universe

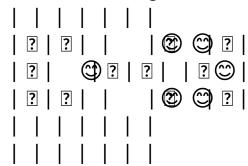
Then I should see the following board



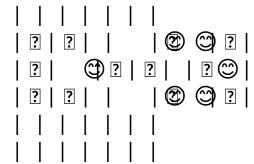
Acceptance Criteria

Scenario: Static Structure > Beehive

Given the following board

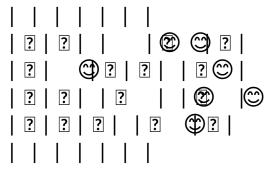


When I evolve the universe



Scenario: Static Structure > Loaf

Given the following board



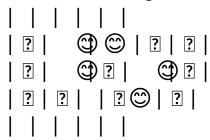
When I evolve the universe

Then I should see the following board

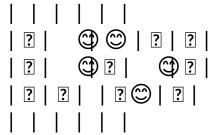
Acceptance Criteria

Scenario: Static Structure > Boat

Given the following board

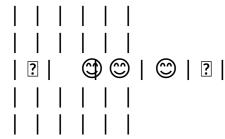


When I evolve the universe



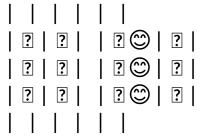
Scenario: Cells come alive, then die off

Given the following board

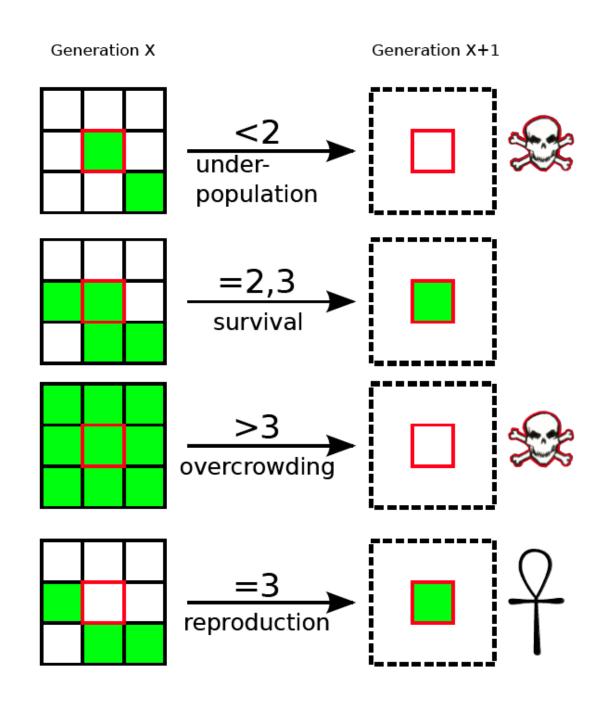


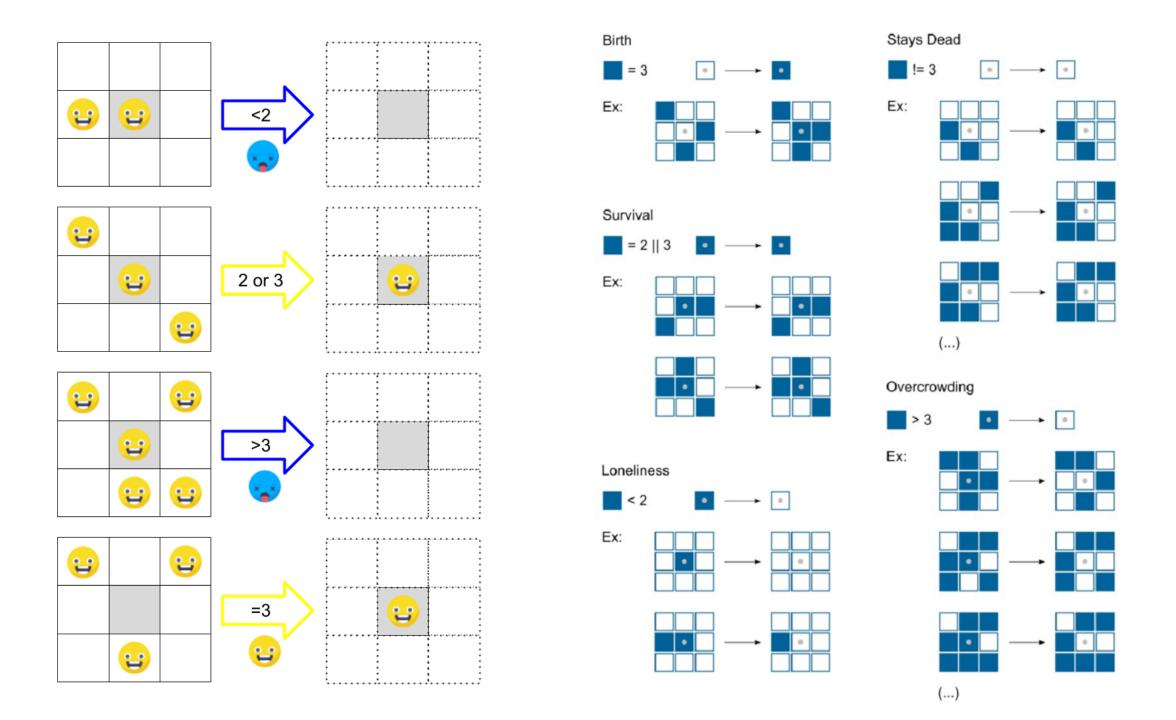
When I evolve the universe

Then I should see the following board



When I evolve the universe



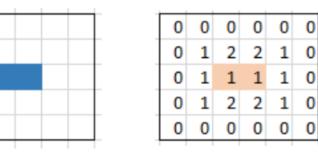


Resilient

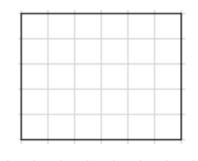
Game of Life - Quelques Scenarios

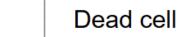
Actual state

First case :





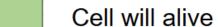






Cell will dead



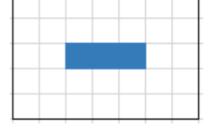




Alive cell

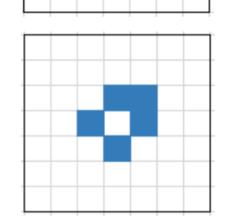


Third case:





_	_	_	_	_	_	_
0	0	0	0	0	0	0
0	0	1		2	1	0
0	0	2	3	3	2	0
0	1	3	4	3	2	0
0	1	1	3	2		
0	1	1	1	0	0	0
0	0			0	0	0



SPRINT BACKLOG

BLOCKED

VALIDATION

DONE







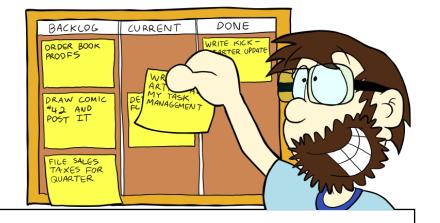
Why is it worthwhile to run the sprint? What should be achieved? For instance, address a risk, test an assumption, or complete a feature.

Daily Scrum

What did you do **yesterday**that helped the **Development Team** meet the **Sprint Goal**?

What will you do today to help the **Development Team** meet the **Sprint Goal**?

Do you see **any impediment**that prevents **you** or the **Development Team** from
meeting the **Sprint Goal**?



TIME

TIME

TIME

TIME

adaptivelogic

Team Members













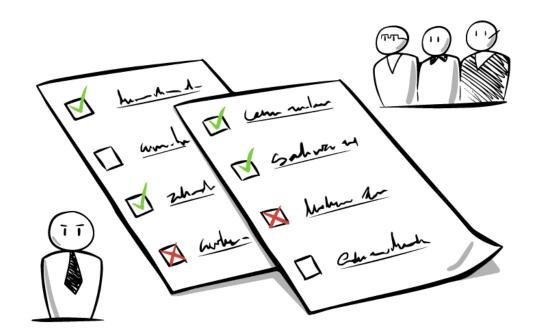




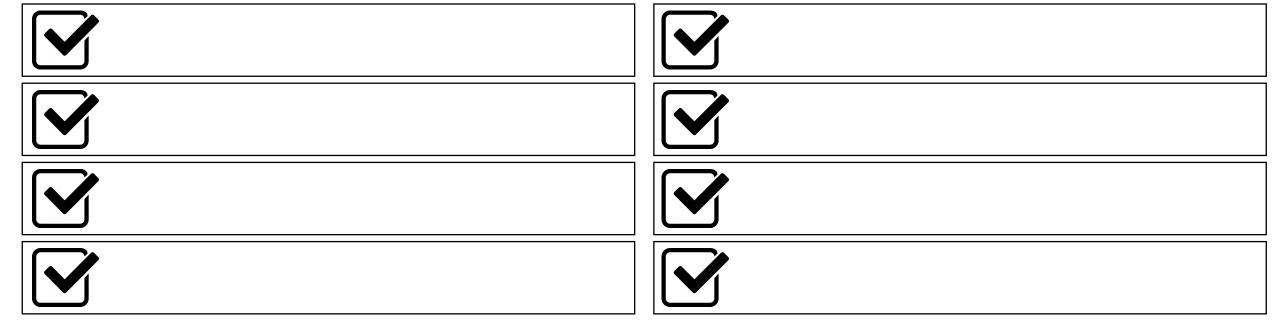
DESIGN	BUILDIN G	ASSEMBL Y	TEST		

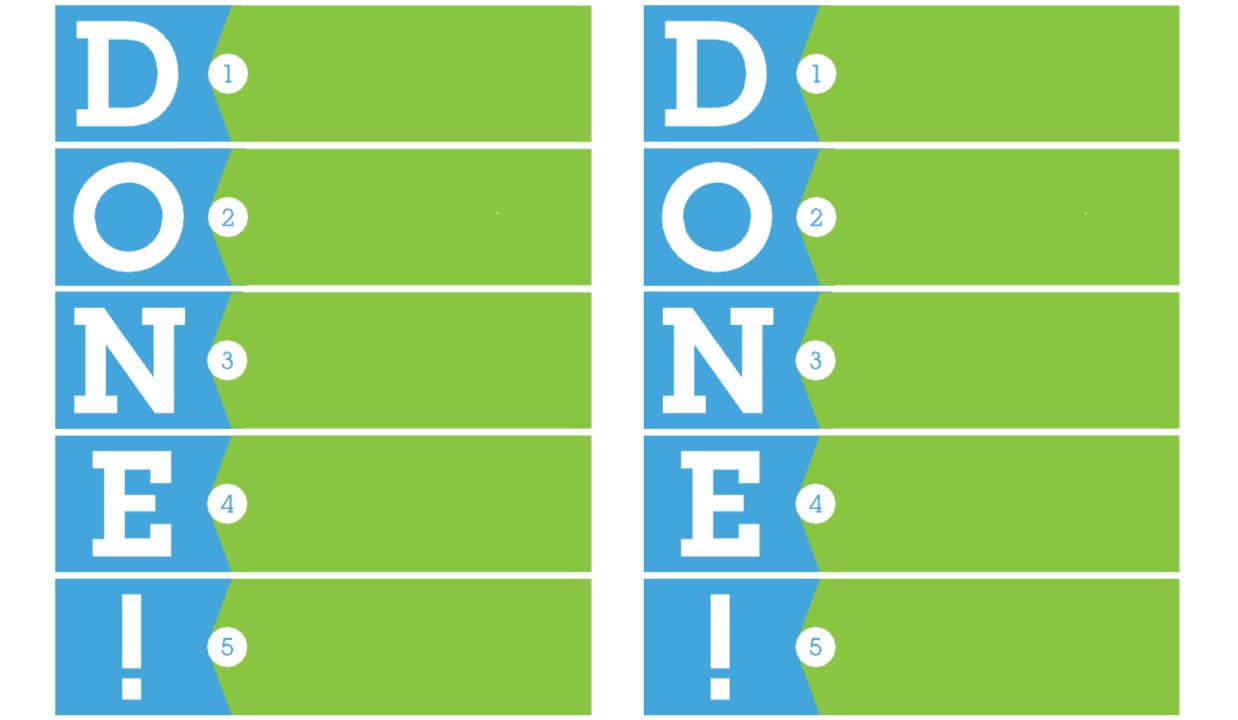
Team Velocity





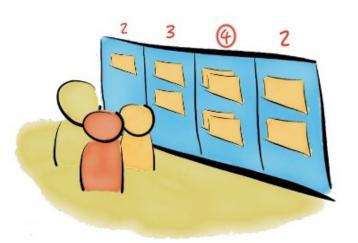
Definition of Done (DoD)



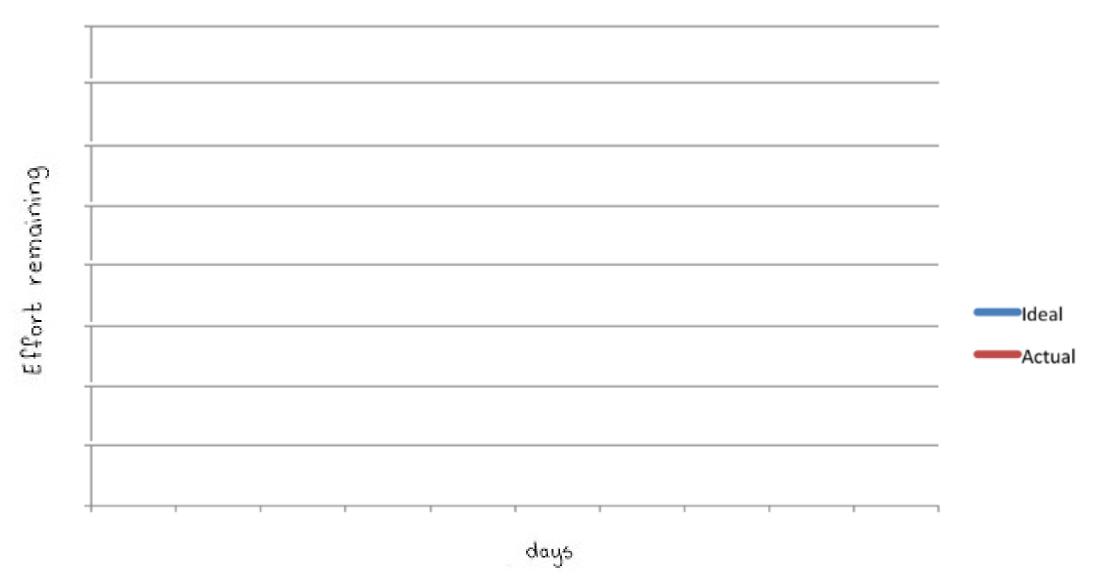


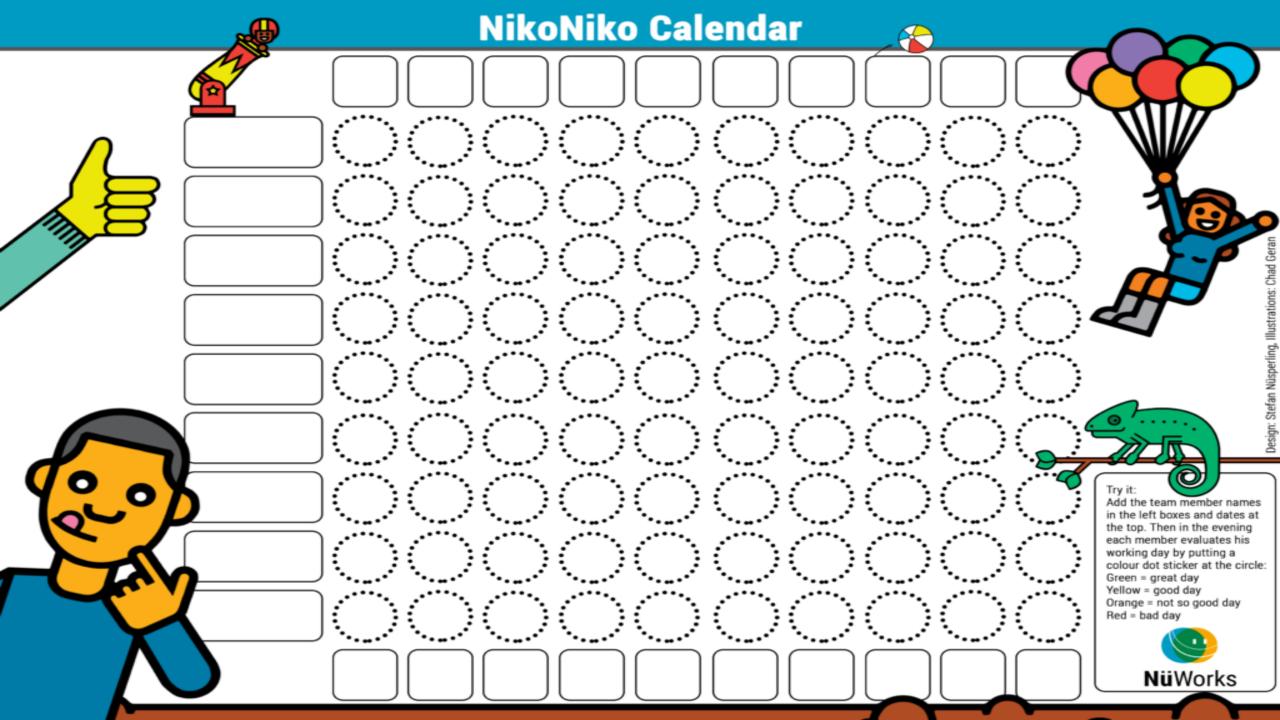
Work in progress

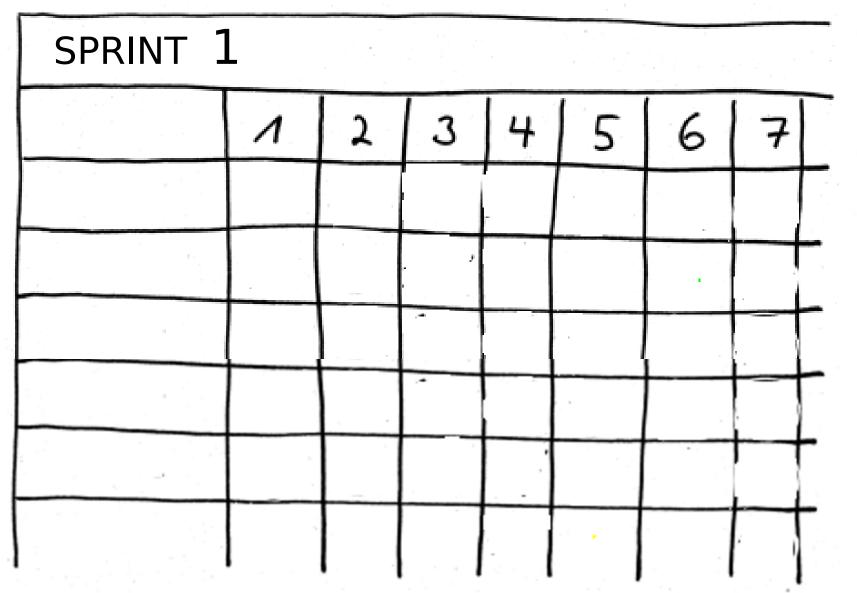
W.I.P.

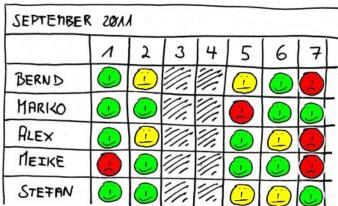


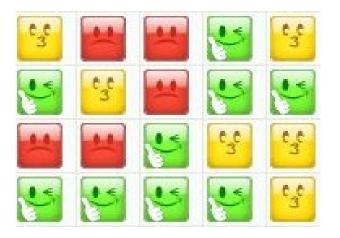
Sprint Burndown Chart

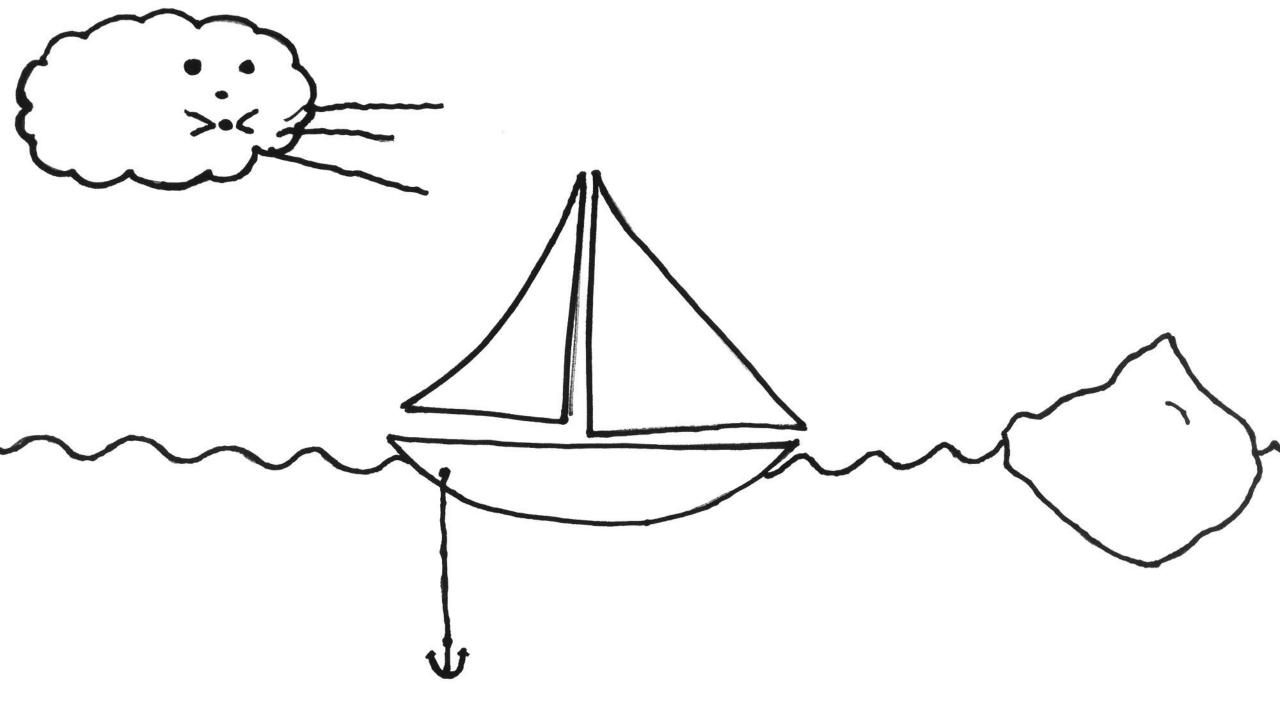




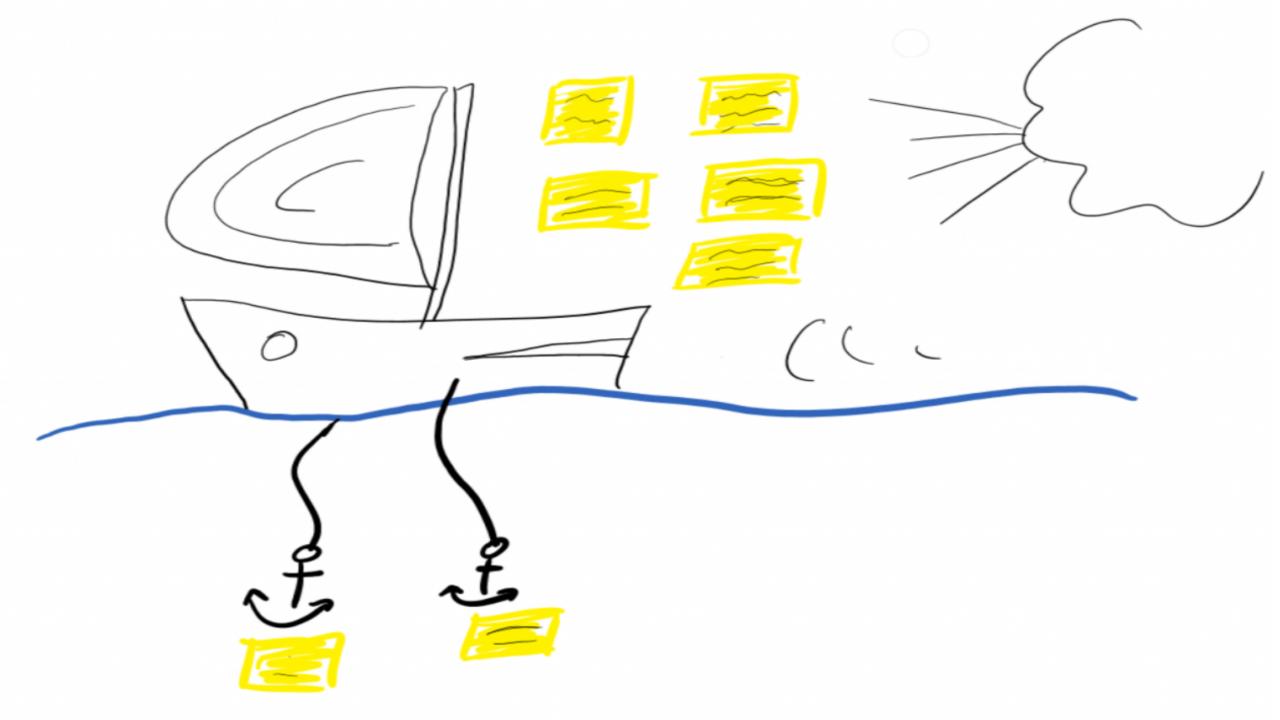


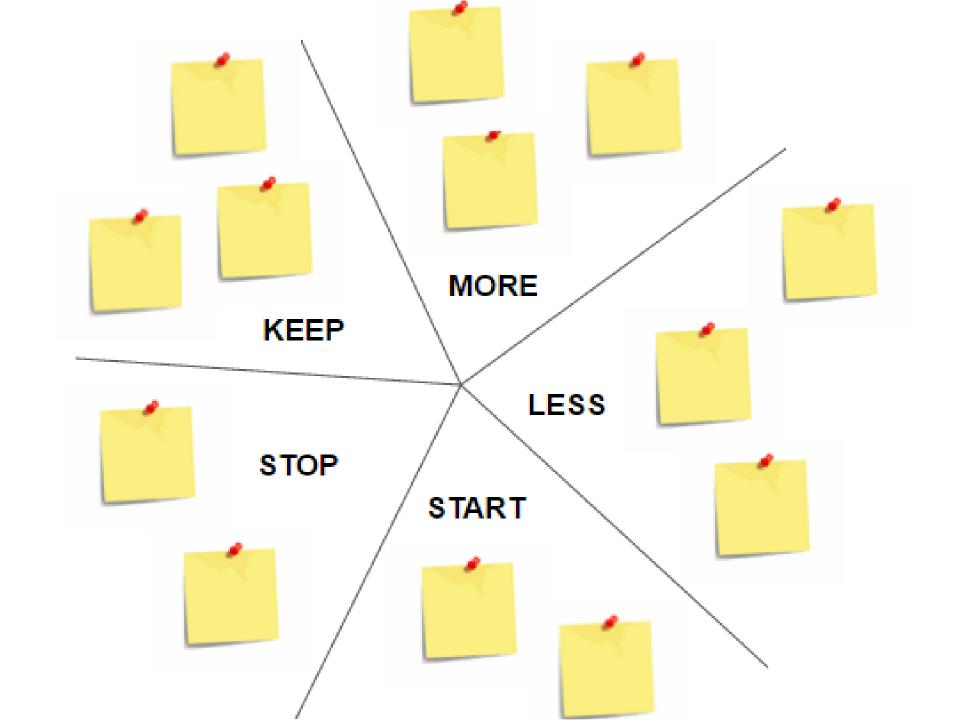












What worked well?	What could be improved?	What will we commit to doing in the next Sprint?

