



FAISONS RIMER AGILITÉ, QUALITÉ ET
RAPIDITÉ !

Nos sponsors



ENOVA

PRÉSENTATION

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#human #craft



KAIZEN
S O L U T I O N S

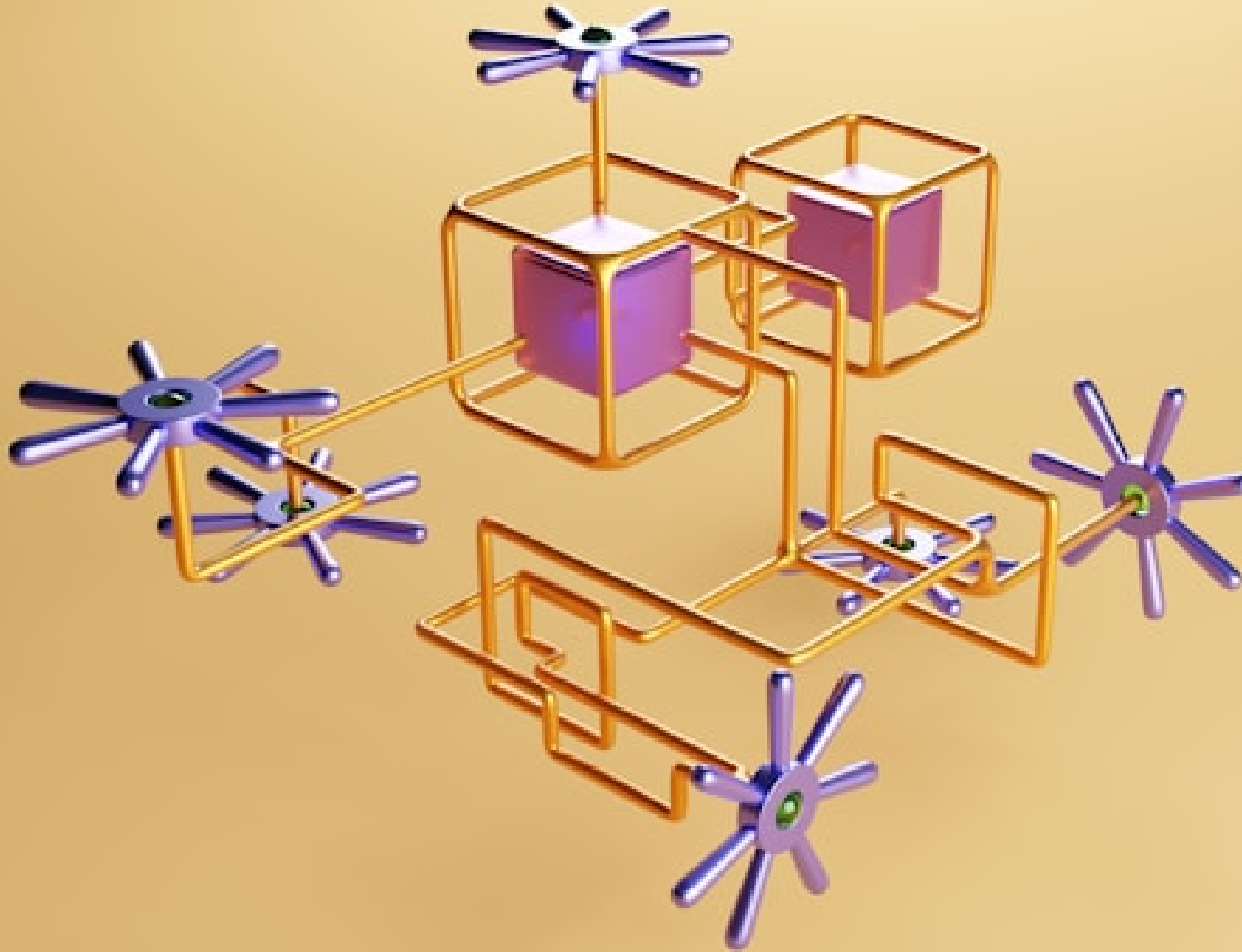
INTRODUCTION : (RE)PENSER AUX TESTS OUBLIÉS



A photograph of a medieval stone castle with a prominent tower and a church spire, situated on a rocky cliff. The castle is surrounded by lush green trees. A semi-transparent dark grey rectangle is overlaid on the image, containing the title text in white.

1. CODE TESTABLE ET ARCHITECTURE TESTABLE

PERMETTRE LA TESTABILITÉ



OU BIEN NE PAS POUVOIR TESTER



LA TESTABILITÉ EST UNE FEATURE

Ship's Name:

Official No.:

IMO No.:

Date/time	Position of the Ship	Estimated Amount Discharged into Sea (m ³)					Estimated Amount Discharged to Reception Facilities or to other ship (m ³)		Estimated Amount Incinerated (m ³)	Certification/Signature
		CAT.2	CAT.3	CAT.4	CAT.5	CAT.6	CAT.1	Other		
15.04/0530	MOROCCO off LOYANG BAY						0.002 m ³			
16.04/0545	" "						0.003 m ³			
17.04/1800	$\phi=03^{\circ}59'5N$ $\lambda=079^{\circ}35'E$				0.006 m ³					
18.04/1730	$\phi=06^{\circ}04'3N$ $\lambda=085^{\circ}18'E$				0.004 m ³					
19.04/1745	$\phi=06^{\circ}04'7N$ $\lambda=090^{\circ}38'E$				0.003 m ³					
20.04/1715	$\phi=06^{\circ}05'2N$ $\lambda=090^{\circ}49'E$				0.004 m ³					
21.04/1700	$\phi=05^{\circ}50'2N$ $\lambda=081^{\circ}32'E$				0.005 m ³					
22.04/1720	$\phi=07^{\circ}43'8N$ $\lambda=077^{\circ}18'E$				0.004 m ³					
23.04/1745	$\phi=12^{\circ}02'7N$ $\lambda=074^{\circ}28'E$				0.006 m ³					
24.04/1800	$\phi=16^{\circ}12'1N$ $\lambda=071^{\circ}59'E$				0.005 m ³					
25.04/1745	$\phi=19^{\circ}57'0N$ $\lambda=067^{\circ}41'E$				0.004 m ³					
26.04/1730	$\phi=23^{\circ}33'8N$ $\lambda=066^{\circ}23'E$				0.003 m ³					
27.04/1810	$\phi=24^{\circ}15'4N$ $\lambda=061^{\circ}23'E$				0.005 m ³					
28.04/1730	$\phi=26^{\circ}17'N$ $\lambda=056^{\circ}48'E$				0.004 m ³					
29.04/0530	$\phi=25^{\circ}46'N$ $\lambda=055^{\circ}37'E$				0.003 m ³					
30.04/0800	MOROCCO off JERBE/ALI						15.21 m ³			
01.05/1752	MOROCCO off JERBE/ALI						0.004 m ³			
02.05.1800	MOROCCO off JERBE/ALI						0.004 m ³			
03.05.1805	" " "						0.004 m ³			
04.05.1745	" " "						0.007 m ³			

Master's Signature

Date:

04 May 2011

ARCHITECTURER LA TESTABILITÉ



A collection of various hand tools is displayed on a blue textured background. The tools include numerous open-end and combination wrenches of different sizes, several screwdrivers with red and black handles, a pair of green-handled pliers, a pair of green-handled scissors, a set of hex keys in a red and black holder, and a set of sockets in a black holder. The tools are arranged in a somewhat organized manner, with wrenches hanging vertically and screwdrivers standing upright. The text "2. LES OUTILS ADAPTÉS" is overlaid in the center of the image.

2. LES OUTILS ADAPTÉS

DU HARDWARE



DU SOFTWARE





3. FIABILITÉ ET MAINTENABILITÉ DES TESTS

FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
------	------	------	------	------	------	------	------	------	------

FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
------	------	------	------	------	------	------	------	------	------

FAIL	FAIL	FAIL	FAIL	PASS	FAIL	FAIL	FAIL	FAIL	FAIL
------	------	------	------	------	------	------	------	------	------

FAIL	FAIL	FAIL	FAIL	PASS	FAIL	FAIL	FAIL	FAIL	FAIL
------	------	------	------	------	------	------	------	------	------

A woman with dark hair and a white dot on her forehead is in a chaotic office environment. She is wearing a red jacket and a patterned vest. Her right hand is raised, palm facing forward, with a small wound on the palm. Papers are flying through the air around her. The background shows office cubicles and fluorescent lights.

4. TESTS EVERYTHING, EVERYWHERE, ALL AT ONCE

LE TEST EST UN BESOIN



TRES AMIGOS



EXAMPLE MAPPING

Create user
account

Email and
password
must be
provided

Password must
contain at least :
- one capital letter
- one special
character
- one number

Someone creates an
account with email
"toto@gmail.com" and
password "P@S5w0rd"

→ account created

Someone creates an
account without email

→ error "please
provide an account"

Do we need to
check the
password length ?

Someone creates an
account without

Should we check
the email syntax ?

BEHAVIOR-DRIVEN DEVELOPMENT

```
LoanDecision.feature*  X
1 Feature: Loan Decision
2   As a bank employee
3   I need to calculate a decision for an individual consumer
4   To grant or reject loan
5
6 Scenario: Positive decision
7   Given an individual customer is aged 18 or older
8   And a customer is UK resident
9   And a customer has held a Lloyds Bank current account for at least one month
10  And a customer has a regular income
11  And a customer is not a full-time student
12  And a customer has no bad credits
13  When a customer applies for a £34,000 loan
14  Then decision should be positive
15
16 Scenario: Negative decision
17   Given an individual customer is aged 18 or older
18   And a customer is UK resident
19   And a customer has held a Lloyds Bank current account for at least one month
20   And a customer has a regular income
21   And a customer is not a full-time student
22   But a customer has 1 bad credit
23   When a customer applies for a £34,000 loan
24   Then decision should be negative
25
26
27
```


LE DANGER DE LA LOI DE CONWAY



AVOIR LES MOYENS DE SES AMBITIONS





5. MAITRISER LES DÉFAUTS ENVOYÉS EN PRODUCTION

ACCEPTER DE FAIRE DES ERREURS



OPTIMISER LA COLLECTE D'INFORMATIONS

Configuration

Parameters are displayed in bold when their value is not the factory setting

Key	Value	Description
Electrical settings		
iMaxDeratingSwCapacity	16	iMax derating software
IMaxEvseCapacityTE	10	iMax on socket
Metering		
GridType	1	Type of Grid wiring (1: 3 phases with neutral, 2: 3 phases without neutral)
MidProtocol	1	MID protocol (1: RTU, 2: TCP)
MidSlaveId	247	MID slave id
MidTCPGatewayAddress	192.168.0.130	MID TCP gateway
MidTCPPort	502	MID TCP port
PhasesConnection	4	Phases connection (1: TRI123, 2: TRI231, 3: TRI312, 4: MONO1, 5: MONO2, 6: MONO3)
PowerMeterSystem	2	Powermeter system (1: internal card, 2: MID)
Authentication		
Restriction	1	Restriction mode (1: Free mode, 2: Lock cable, 3: Private, 4: Public, 5: All badges)
ConnectionTimeOut	60	Connection timeout in sec
Energy Management		
EmSystem	0	EM system (0: None, 1: Universal, 2: TIC)
ILimitedPowerTIC	16	TIC limited iMax
ModeTIC	0	TIC mode about peak hours (0: None, 1: Suspended, 2: Limited)
TicStdContract		Tic contract name (std)
TicType	0	Tic type (0: Historic, 1: Standard)
UnivContractVal	16	Universal protocol contract
UnivProtocol	1	Universal protocol (1: RTU, 2: TCP)
UnivSlaveId	30	Universal protocol slave id
UnivTCPGatewayAddress	192.168.0.130	Universal protocol TCP gateway
UnivTCPPort	502	Universal protocol TCP port
Digital inputs		

A hand is shown holding a fan of US dollar bills, with the top bill being a \$100 bill. The bills are fanned out, showing multiple denominations. A dark, semi-transparent banner is overlaid across the middle of the image, containing the text '6. INVESTIR DANS LES TESTS AUTOS' in white, bold, sans-serif capital letters. The background is a light, neutral color.

6. INVESTIR DANS LES TESTS AUTOS

SCALING



RISQUE



121

No. Of Executions

524

Avg Passed Tests

41

Avg Failed Tests

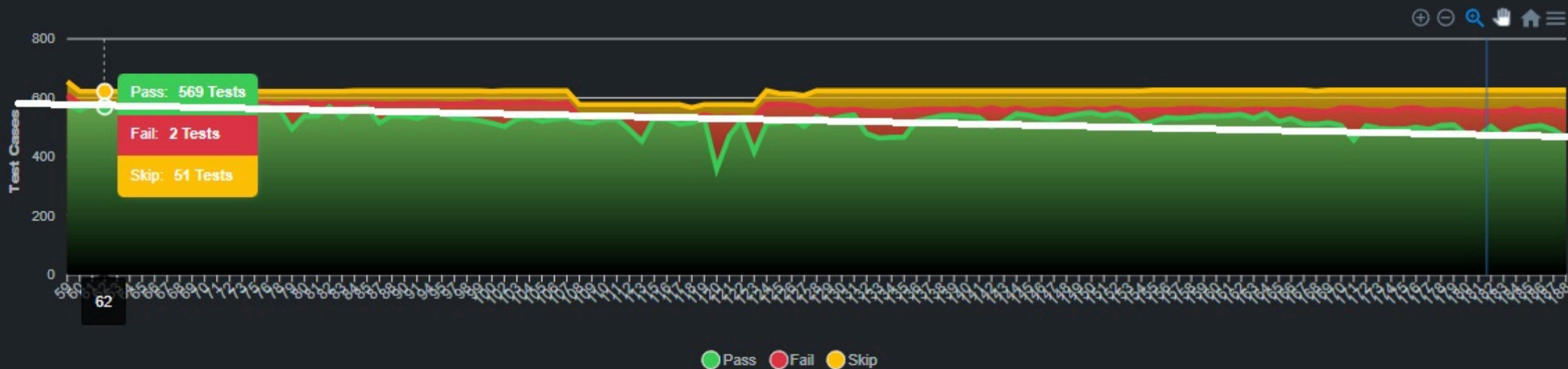
54

Avg Skipped Tests

-29

New Tests

Test Trend



7. LES NIVEAUX DE TEST

The background of the slide is a wide-angle photograph of the Great Pyramids of Giza in Egypt. The pyramids are constructed from golden-brown stone blocks and are set against a bright blue sky with scattered white clouds. In the foreground, the desert sand is a uniform light brown color. A small group of people and a camel cart are visible in the lower-left corner, providing a sense of scale to the massive structures.

PYRAMIDE ?





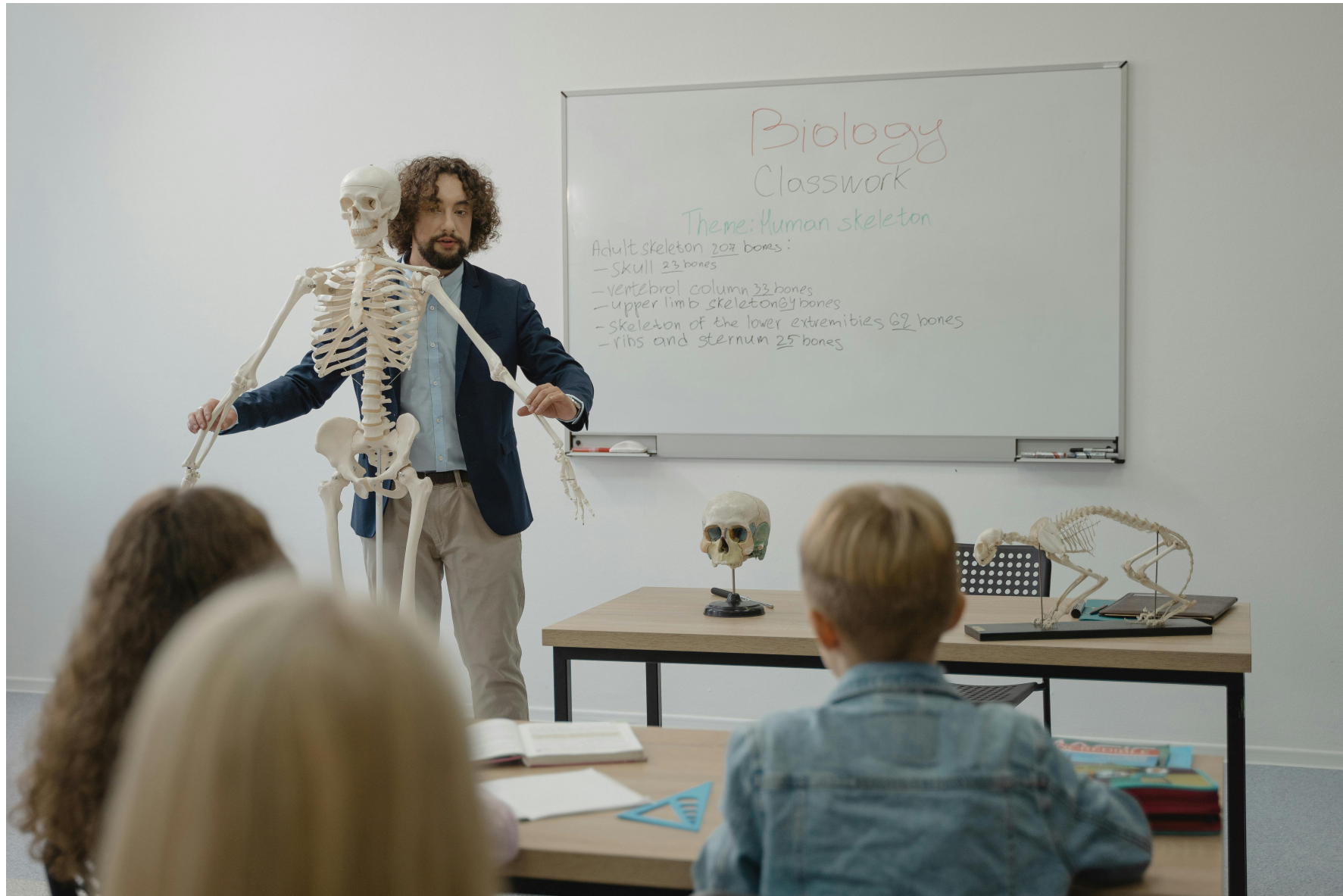
8. CONFIANCE D'ALLER VITE



A Spider-Man figure in his iconic red and blue suit is shown from the waist up, crouching against a rough stone wall. He is holding an open book with both hands, looking down at it intently. The background is a bright, hazy sky, suggesting a sunrise or sunset. A semi-transparent black rectangular box is centered over the lower half of the image, containing the text '9. APPRENDRE' in white, bold, sans-serif capital letters.

9. APPRENDRE

AGILITÉ



DORA : APPRENDRE À APPRENDRE



A red rectangular sign with the words "OFF LIMIT" in white, bold, sans-serif capital letters. The sign is suspended by a yellow chain. The background is a blurred industrial environment with metal structures and a dark, wet floor.

OFF LIMIT

10. RETOUR SUR INVESTISSEMENT ?

DIFFICILE DE TESTER



TANT PIS



OU CHOISIR DE RESTER MANUEL



CONCLUSION

Manifesto for Agile Software Development

TESTING

testing

We are uncovering better ways of developing software by doing it and helping others do it.

Through this work we have come to value:

Individuals and interactions over processes and tools ✓

Working **TEST** over comprehensive **JIRA**
PO/DEV/TEST collaboration over **"PAS MON PROBLÈME"**

Responding to change over following a **TEST** plan

That is, while there is value in the items on the right, we value the items on the left more.

POUR ALLER + LOIN

- DORA Core Model - Get better at getting better
- [Livre] Team Topologies - Organizing for fast flow of value
- [Livre] Michael feathers - Working effectively with legacy code
- [Talk] Arnaud Langlade - Example Mapping
- [Podcast] If This Then Dev #327 - Fiabiliser l'usine logicielle, avec Geoffrey Berard + sa version compilée "#327.exe" avec Louis Pinsard
- [Podcast] Developer Experience Opionated #3 - Comment penser les tests logiciels en 2025, avec Antoine Craske
- [Podcast] QG Qualité - Le QE Score chez Carrefour, avec Simon Champenois
- l'IA pour le test

CRÉDITS PHOTOS

- Photo de Almir reis sur Pexels: <https://www.pexels.com/fr-fr/photo/ruines-de-la-cite-antique-de-machu-picchu-au-perou-29059114/>
- "Official logo for the Top Ten Professional Women and Leading Business Awards event" by Marjaree Mason Center on Wikimedia Commons (CC-BY-SA 4.0)
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- Photo de luis gomes sur Pexels: <https://www.pexels.com/fr-fr/photo/ordinateur-portable-noir-et-gris-546819/>

- Photo noeud <https://pixabay.com/fr/photos/n%c5%93ud-validation-fixation-bleu-1242654/>
- Image du film "Everything, Everywhere, All at Once" (via [Vanity Fair](#))
- Photo of a facepalm by [Vitaly Gariev](#) on [Unsplash](#) (Free licence)
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- Image d'un Example Mapping, par Julien Lenormand, basé sur l'[exemple d'Arnaud Langlade](#)
- Screenshot de code de Behavior-Driven Development, par [Dominik Szahidewicz](#)
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- Photo of inverted pyramid by [Helen Browne](#) on [Unsplash](#) (Free licence)

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- Photo de Tima Miroshnichenko sur Pexels: <https://www.pexels.com/fr-fr/photo/homme-en-veste-en-jean-bleu-jouant-de-la-guitare-5427819/>
- Photo of Spider-man reading by Road Trip with Raj on Unsplash (Free licence)
- "Dora the Explorer" by Håkan Dahlström on Wikimedia Commons (CC-BY 2.0)
- Photo of a "stop sign" by Glenn Villas on Unsplash (Free licence)
- Photo of a Jenga tower by Michał Parzuchowski on Unsplash (Free licence)
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- Photo of a scoubidou by elia salibi on Unsplash (Free licence)
- Photo of "end" word by Markus Spiske on Unsplash (Free licence)
- Photo of a painting by Annie Spratt on Unsplash (Free licence)
- Photo of a rabbit by Степана on Unsplash (Free licence)

QUESTIONS

Slides

<https://github.com/Lenormju/talk-test-auto-agile/>



OpenFeedback

<https://app.roti.express/r/ag2025-13>



RAPPELS DES 10 POINTS

1. Code testable et architecture testable
2. Avoir des outils adaptés
3. Maintenir des tests fiables
4. Test everything, everywhere
5. Maîtriser les défauts envoyés en prod
6. Investir dans les tests autos
7. Les niveaux de test
8. Avoir la confiance d'aller vite
9. Apprendre
10. Estimer le ROI

A small, fluffy brown rabbit is sitting on a white windowsill. It is looking out a window that has many raindrops on it. The view outside is blurry, showing a red-roofed house and greenery. A dark semi-transparent box with white text is overlaid on the rabbit's face.

UN LAPIN !

ABSTRACT : LE TEST, GRAND OUBLIÉ DE L'AGILITÉ ?

Il est assez facile de voir comment l'Agilité permet d'aller vite, mais la Qualité ne découle pas aussi clairement de ses Valeurs ("Des logiciels opérationnels plus qu'une documentation exhaustive") et ses Principes ("Un logiciel opérationnel est la principale mesure d'avancement"). On pensait en avoir fini avec le cycle en V, mais est-ce que garder le test comme une étape successive du dev n'est pas perpétuer les mêmes causes d'un même échec ?

On voudrait vous présenter une vision différente du Test, et surtout de comment l'intégrer à nos processus Agiles :

- l'intégrer très en amont (#ShiftLeftTesting), par exemple dès le raffinement du besoin (#ExampleMapping et #BDD) ou lors de la phase de conception (#TestableDesign),
- anticiper les besoins techniques (#TestOps),
- éviter les défauts (#RightTheFirstTime et #Lean).

Venez découvrir (au-delà des #buzzwords) d'autres approches du test, en partant de cas réels, et en cherchant toujours comment, concrètement, assurer un bon niveau de qualité sur nos projets.

ABSTRACT : FAISONS RIMER AGILITÉ, QUALITÉ ET RAPIDITÉ !

Il est assez facile de voir comment l'Agilité permet d'aller vite, mais la Qualité ne découle pas aussi clairement de ses Valeurs ("Des logiciels opérationnels plus qu'une documentation exhaustive") et ses Principes ("Un logiciel opérationnel est la principale mesure d'avancement"). Le focus des méthodologies est souvent sur le trio PO/SM/devs, au détriment du troisième amigós : les testeurs. Comment les intégrer à une démarche plus agile (produit/dev/ops), et sans en faire un facteur limitant ?

On voudrait vous présenter une vision différente du Test, et surtout de comment l'intégrer à nos processus Agiles :

- l'intégrer très en amont (#ShiftLeftTesting), par exemple dès le raffinement du besoin (#ExampleMapping et #BDD) ou lors de la phase de conception (#TestableDesign), jusqu'à très en aval (#DevOps),
- anticiper les besoins techniques (#TestOps),
- éviter les défauts (#RightTheFirstTime et #Lean),