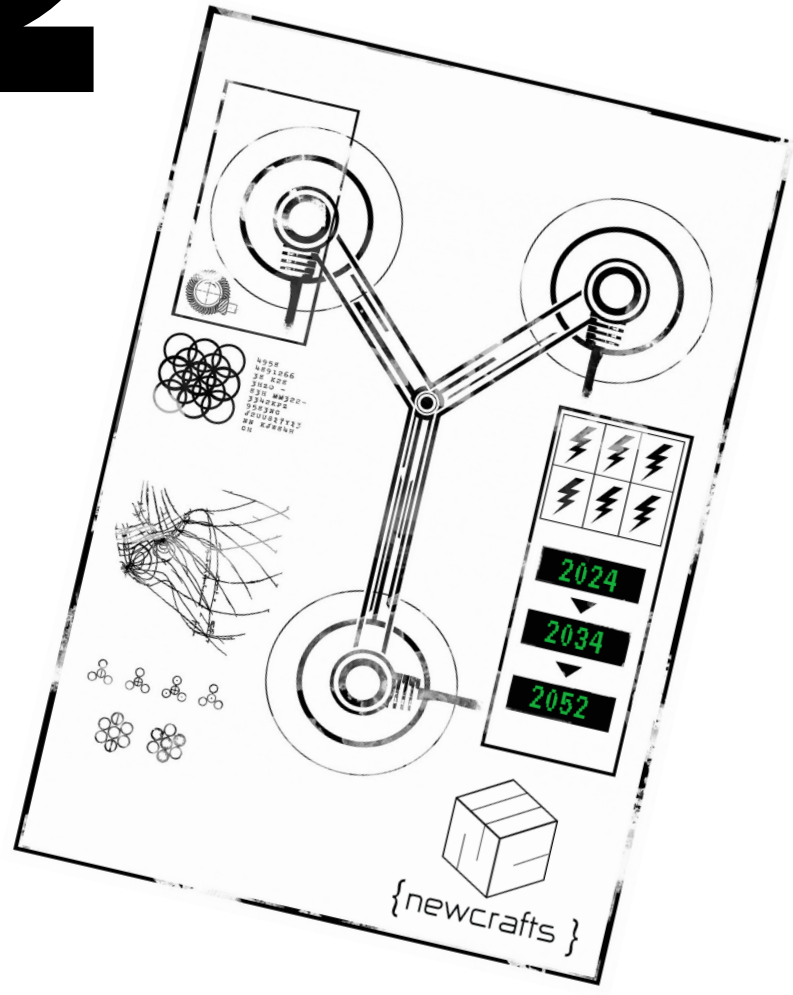
2052

PABLO PERNOT, 2024

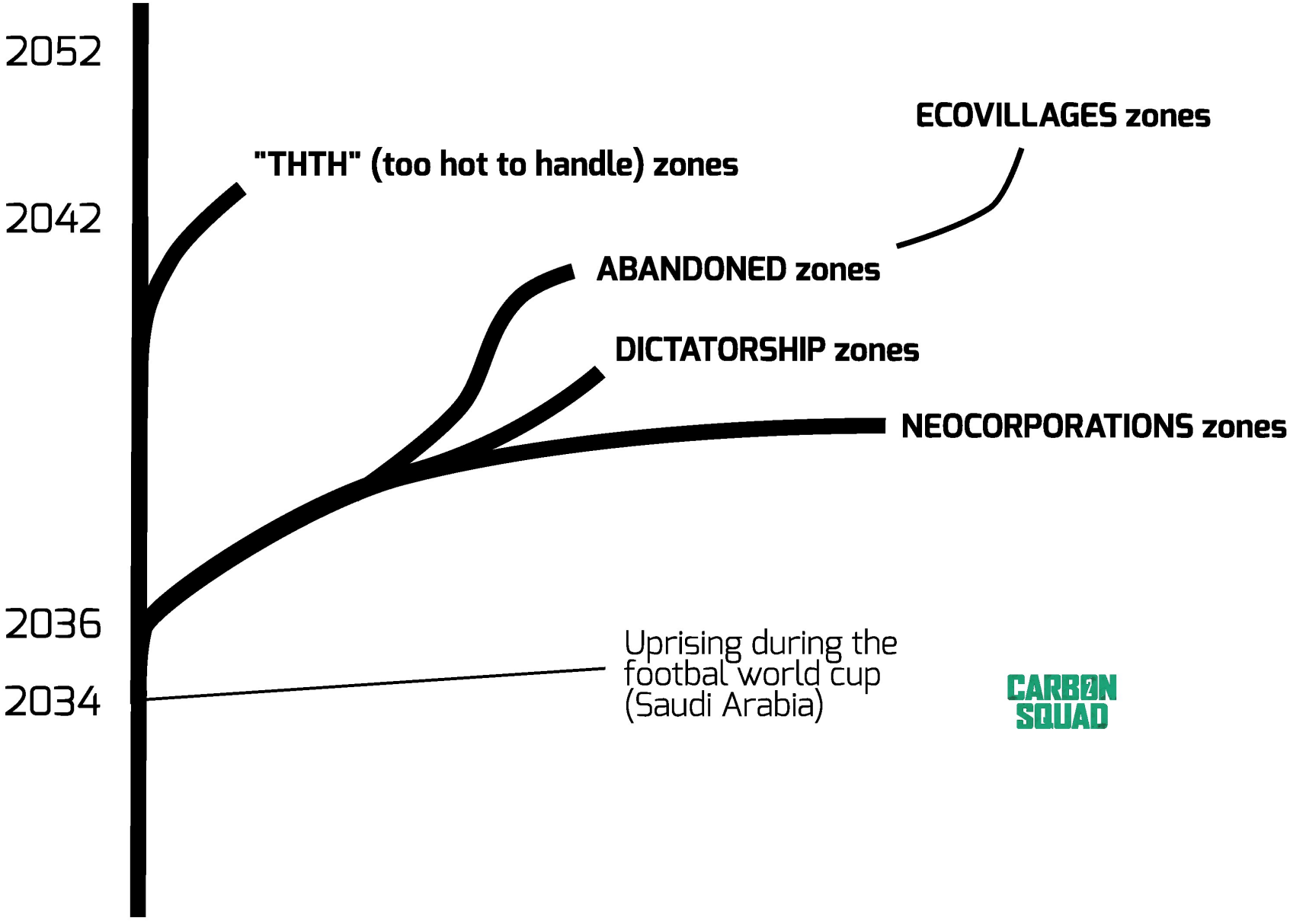
HTTPS://PABLOPERNOT.FR
HTTPS://PROJETWINSTON.FR
HTTPS://DERAPAGE.TOUJOURS-A-CRAN.FR



The future will never be certain.
This book presents one possible version.
I invite you to reread it in ten years time : true or false,
these predictions give us food for thought.

— Cédric Denis-Remis, PSL.
Red Team (”ces guerres qui nous attendent”, VOL1).

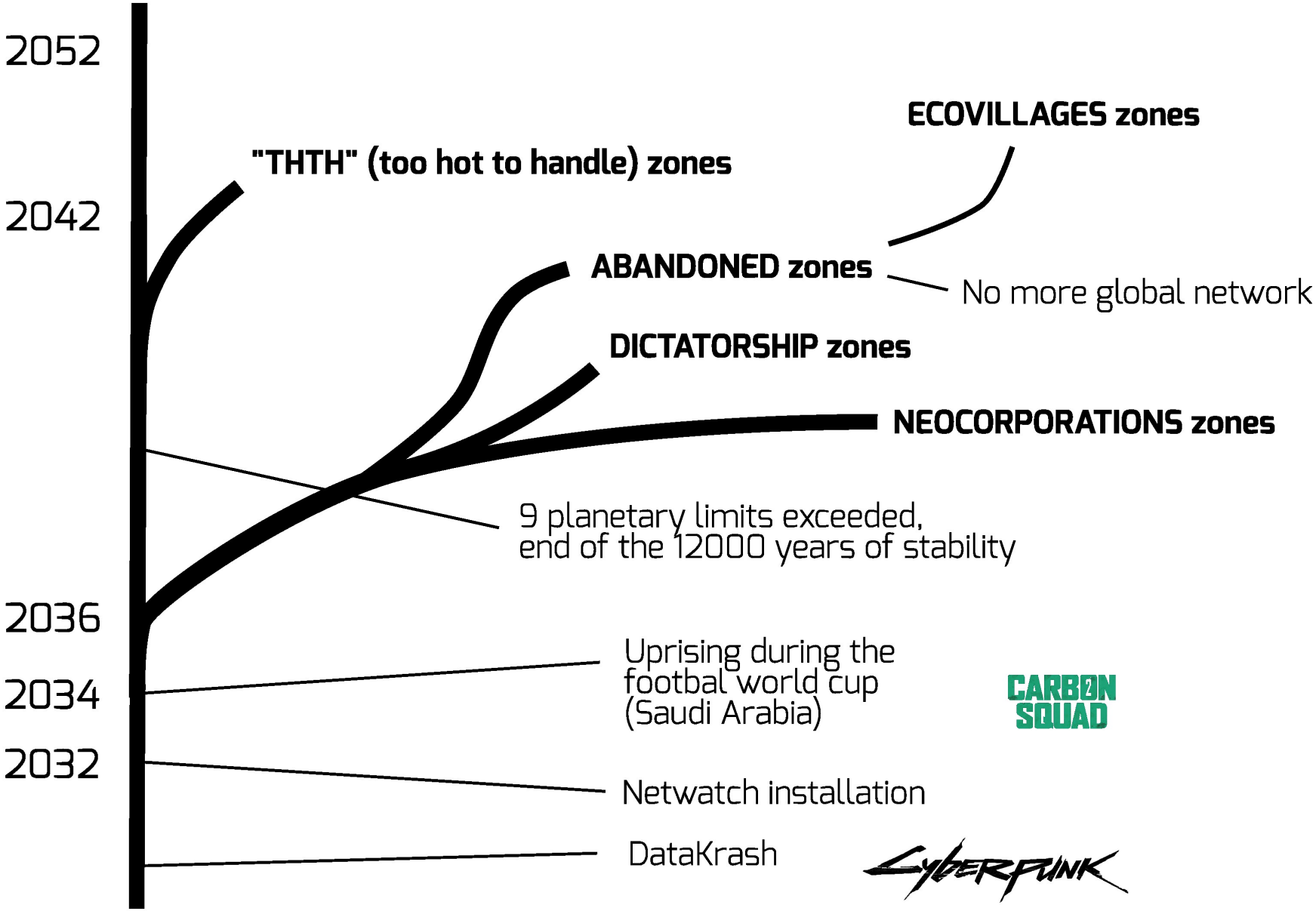
Same for this presentation.
— me.


2052
2042
2036
2034
"THTH" (too hot to handle) zones
ECOVILLAGES zones
ABANDONED zones
DICTATORSHIP zones
NEOCORPORATIONS zones
Uprising during the footbal world cup (Saudi Arabia)
CARBON SQUAD

CARBON SQUAD

Carbon Squad is a role-playing game in development by Henri Lœvenbruck, featuring the Carbon Squad, resistance factions working to save the planet from corporate greed.

https://henriloevenbruck.com/
https://www.youtube.com/@drakenrpg7690


2052
2042
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2034
2032
ECOVILLAGES zones
"THTH" (too hot to handle) zones
ABANDONED zones
No more global network
DICTATORSHIP zones
NEOCORPORATIONS zones
9 planetary limits exceeded,
end of the 12000 years of stability
Uprising during the
footbal world cup
(Saudi Arabia)
CARBON SQUAD
Netwatch installation
DataKrash
CYBERPUNK

Netwatch

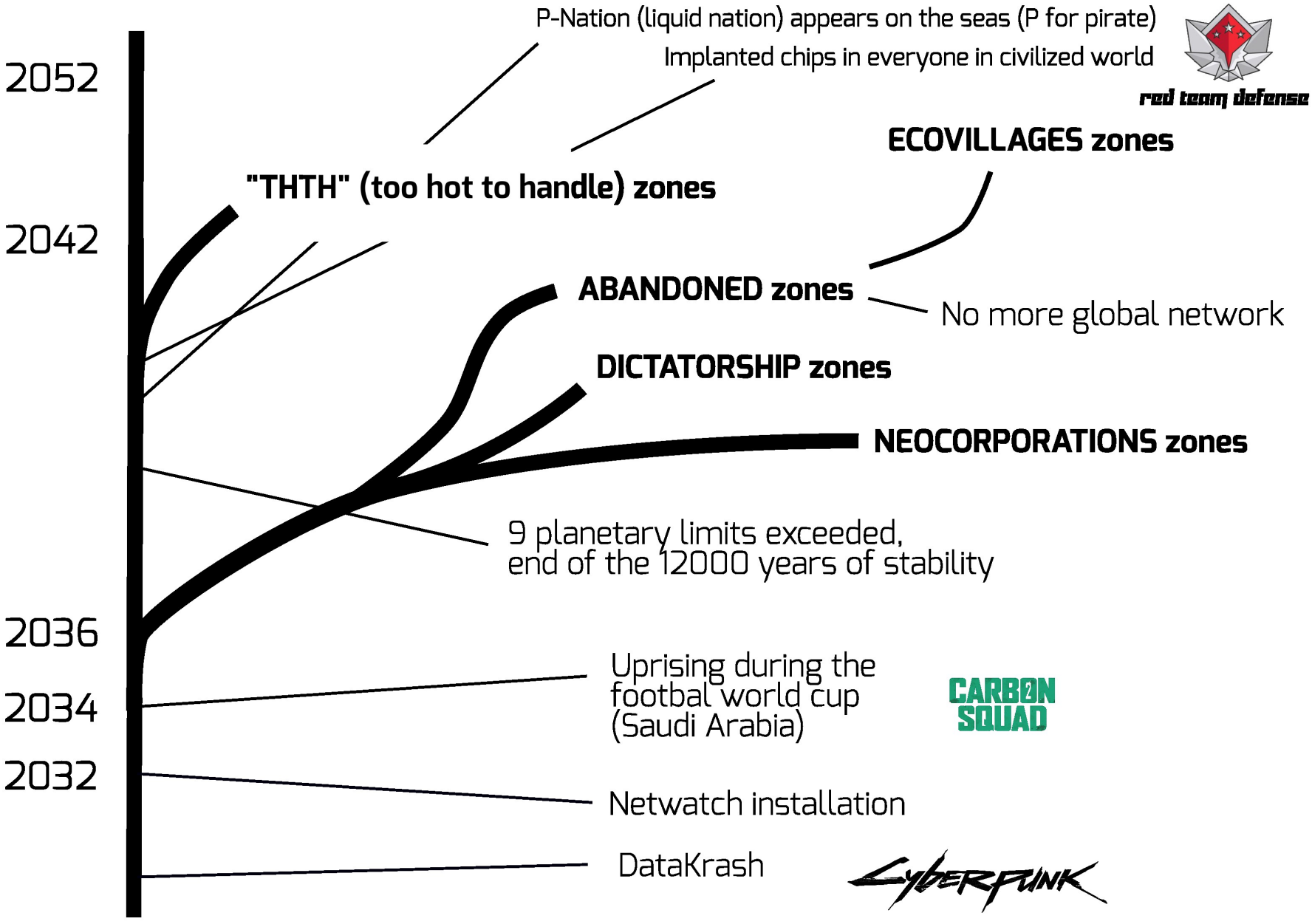
In the original Cyberpunk 2020 lore, NetWatch was formed in 2013 through a treaty between the United Nations and the World Communications Network. In Cyberpunk RED and Cyberpunk 2077, NetWatch is considered a pre-existing private United Kingdom security company, founded in 1991, which was remade into a worldwide policing agency through a US/Eurotheatre treaty in 2013.

DataKrash

The DataKrash is the event in which the original Net was mostly destroyed by the R.A.B.I.D.S. viruses created by Rache Bartmoss. It occurred on either June 3, 2020 or in 2022.

Cyberpunk is a roleplaying game (1988) by Mike Pondsmith.

https://en.wikipedia.org/wiki/Cyberpunk_(role-playing_game)
https://en.wikipedia.org/wiki/Mike_Pondsmith
https://cyberpunk.fandom.com/wiki/NetWatch
https://cyberpunk.fandom.com/wiki/DataKrash
https://rtalsoriangames.com/cyberpunk/


2052
2042
2036
2034
2032
P-Nation (liquid nation) appears on the seas (P for pirate)
Implanted chips in everyone in civilized world
red team defense
ECOVILLAGES zones
"THTH" (too hot to handle) zones
ABANDONED zones
No more global network
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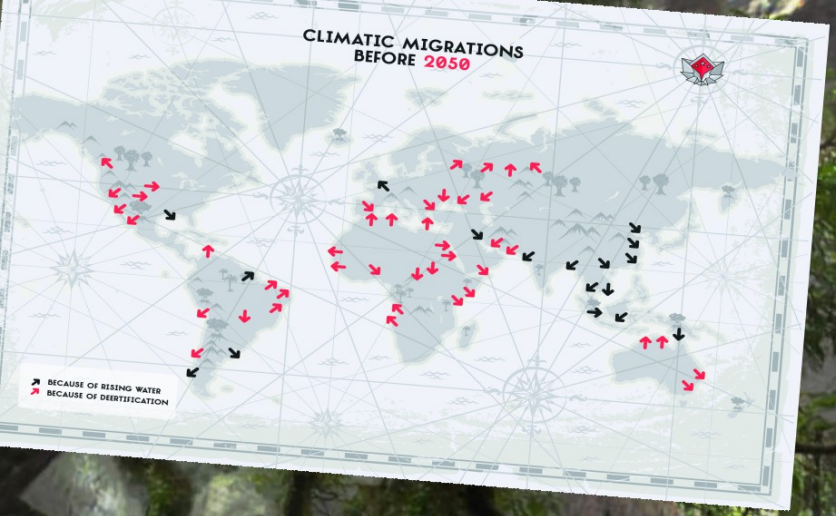
footbal world cup
(Saudi Arabia)
CARBON SQUAD
Netwatch installation
DataKrash
CYBERPUNK

HTTPS ://REDTEAMDEFENSE.ORG/



2065 retirement

2050

developer

2040

guru

head of

leader

expert

senior

2030 developer

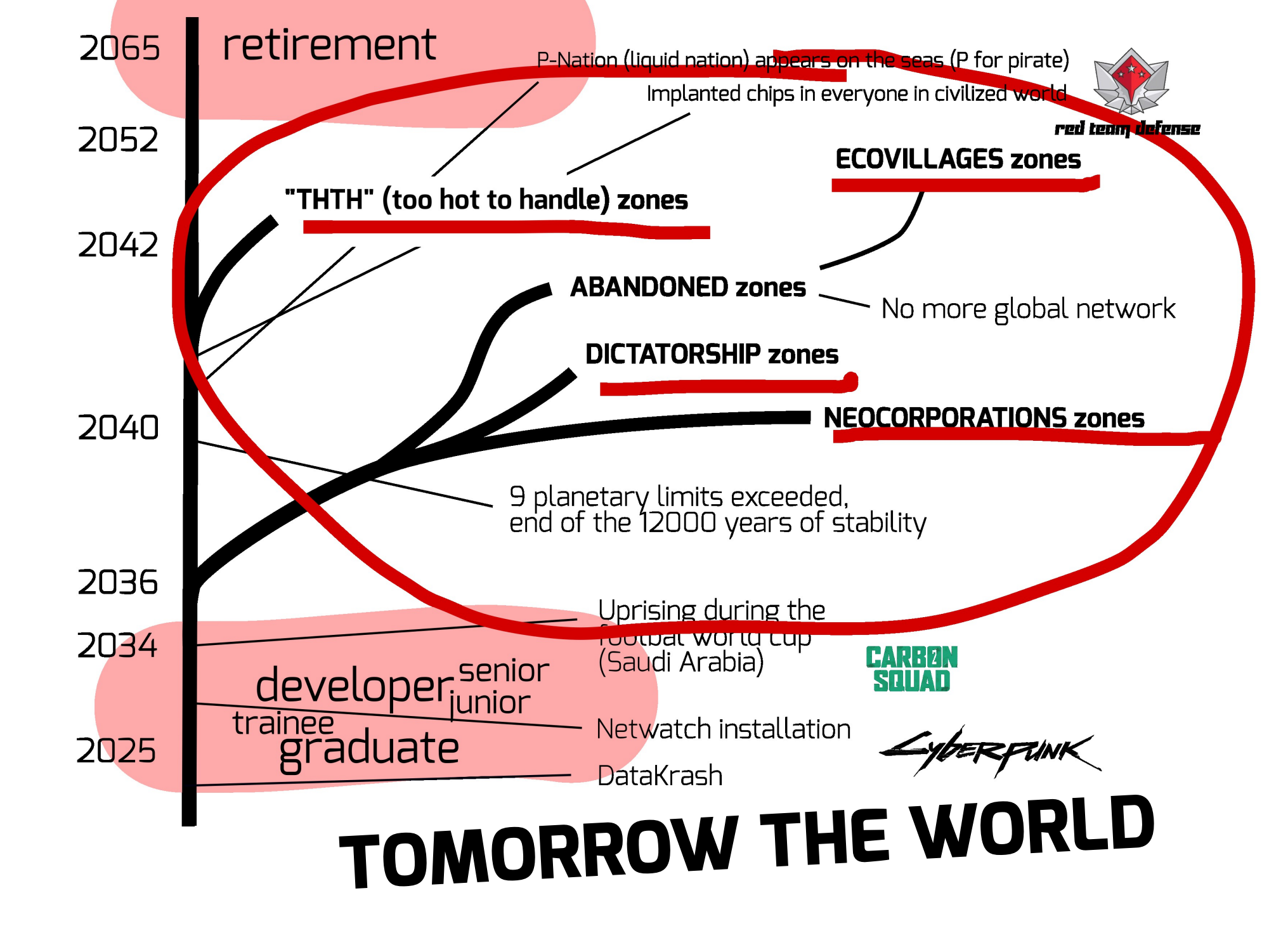
junior

trainee

2025 graduate

- Software Engineer vs developer
- Front End developer
- Backend developer
- Full stack developer
- Devops engineer
- Software architect
- Project manager
- QA Engineer (automation)
- Data scientist
- Data Engineer
- Ethical Hacker
- Database engineer

TODAY YOU


2065
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developer
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trainee
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CARBON SQUAD
Netwatch installation
CYBERPUNK
DataKrash
TOMORROW THE WORLD

NEO-CORPORATIONS TAKE OVER
AND MOST OF THEM
TEND TO BECOME FASCISTS.

DICTATORSHIPS ARE OFFICIALLY FASCIST.

ECOVILLAGES CAN EMERGE
FROM BARBARIAN ZONES.

2052

2042

2036

2034

2032

Example of disruptions to come?

Biological computer?

https ://[...]lordinateur-biologique-l-ordinateur-de-demain

Human level Artificial Intelligence exists?

https ://[...]ai-timelines

Programming living organisms?

https ://[...]programmer-les-organismes-vivants

https ://[...]un-langage-de-programmation-pour-les-cellules-vivantes/

Are you ready?

STRENGHTS	WEAKNESSES
ANALYSIS	COMMUNICATION
ALGORITHMS	SOCIALIZATION
COMPUTERS	SITUATIONAL
CURIOUS	INTELLIGENCE
REASONING	DEAL WITH
CONCEPT-	EMOTION
-UALIZATION	POLITICS
D&D	

...A caricature, but let's think about the strengths and weaknesses of the coder.

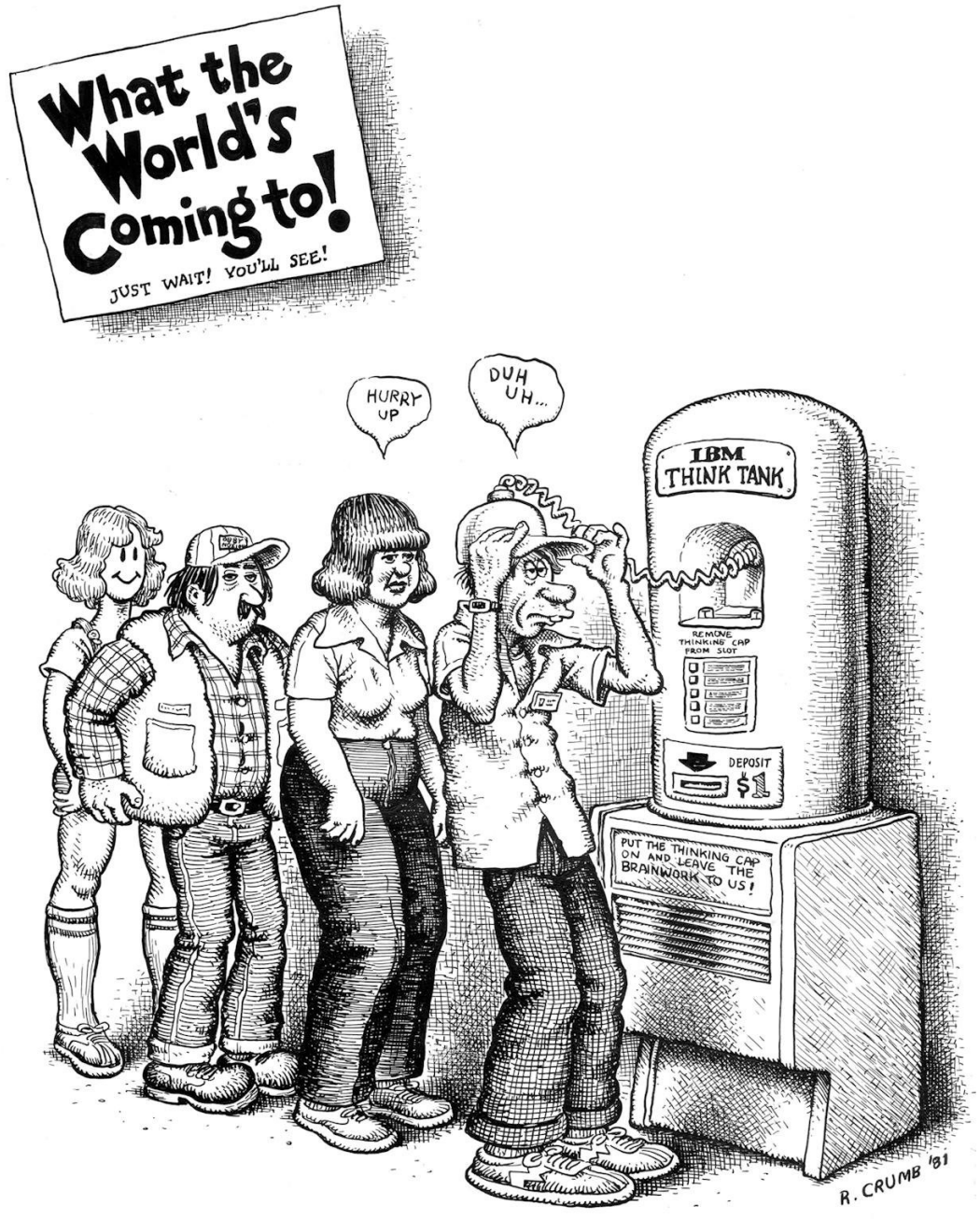
Sorry for the interruption a carbon squad leaflet interfered with the presentation.

Carbon Squad is a role playing game by Henri Loevenbruck.

The AI witchcraft

« Your questions suck.
The whole context
of your page sucks
and even your
positioning sucks ».

– anonymous



Drawing by Robert Crumb 1981

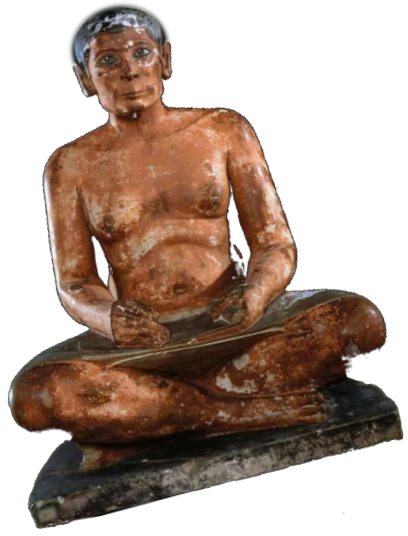
A Riddle

Who are they ?

- A wide variety of tasks
- They « write » and « design »
- Considered the best career advice
- Avoids the torments of difficult physical jobs
- No sector of economic and political activity escapes them
- Rare professions that provide a social lift for the middle classes

...THE EGYPTIAN SCRIBE [1] !...

...WHO BECAME THE COPYIST MONK...



...WHOM DISAPPEARED WITH THE ADVENT OF PRINTING...

...PRINTERS ACCUSED OF WITCHCRAFT, AND CALLED « **MECHANICAL CRAFTSMAN** » [2]

---

1. https://www.geo.fr/histoire/egypte-antique-etait-ce-une-bonne-situation-ca-scribe-213439, https://www.histoire-et-civilisations-anciennes.com/scribes-piliers-du-regime-pharaonique/

2. https://aouste-a-coeur.fr/des-artisans-copistes-aux-imprimeurs/

AI fictitious scenarios

Where? Neocorporations and dictatorships

Kent Beck's AI farm

Code like Kent Beck! He trains AIs and sells them. You don't have to be an expert to be an expert.

The end of Wirth's law

No more bloated software because the AI rewrites and optimises it for you. We hear a lot about the performance and weight of our software. We don't give a damn. The AI will rewrite and optimise all the code as far as possible. [3]

What's more, the end of programming languages

What's more, the developer becomes a reviewer. They no longer code. We've moved on from punched cards to programming language, and then to natural language with AI.

---

3. Martin Fowler send us to this : Refactoring with AI

What if that happens (fictitious answers)

Where? Neocorporations and dictatorships

No need for developers, or far fewer

No more need for novice developers, AI is better. We only keep the experts, who are slowly but surely becoming rare, and there is no longer any place to learn. (The scribes have disappeared, but not the proofreaders, editors, booksellers and, above all, the writers).

The developper become a reviewer

Today, Martin Fowler [4] believes that the AI should above all be used for reviews and to understand what's going on. But once AI has 'taken over', it will be the other way round, with experts trying to review and understand. Ultimate expert or reviewer you will be.

The gear of enslavement

The developer is the linchpin, whether voluntary or involuntary, of the fascist drift of these places. (You can also be hackers fighting).

---

4. Martin Fowler's message on Mastodon : In my view, AI is going to be more valuable in helping programmers understanding existing code rather than generating new code.

Servant of the powerful ? (fictitious answers)

Where? Neocorporations and dictatorships

Implanted chips

A new technology for instantaneous knowledge acquisition challenges the distinction between expert and non-expert. The military use of this neural implant is changing the art of war forever. [5]

Netcontrol and tracking

After the collapse of the Old NET due to the DataKrash [6], during the 2030s and 2040s NetWatch oversaw the development of corporate CitiNets, local VPNs established in Reclaimed Cities. At the same time, it made contact with AIs that had managed to survive rogue malware known as R.A.B.I.D.s in order to work together on getting the Old NET under control. The project did not exist in any official books or records, and was known only as "the Black Wall". [7]

---

5. https://redteamdefense.org/saison-3/face-a-lhydre
6. https://cyberpunk.fandom.com/wiki/DataKrash
7. https://cyberpunk.fandom.com/wiki/NetWatch

2024 HTTPS://CREDIT.GZ.GOV.CN/

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CREDIT.GZ.GOV.CN

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请输入相对人名称或统一社会信用代码 查询

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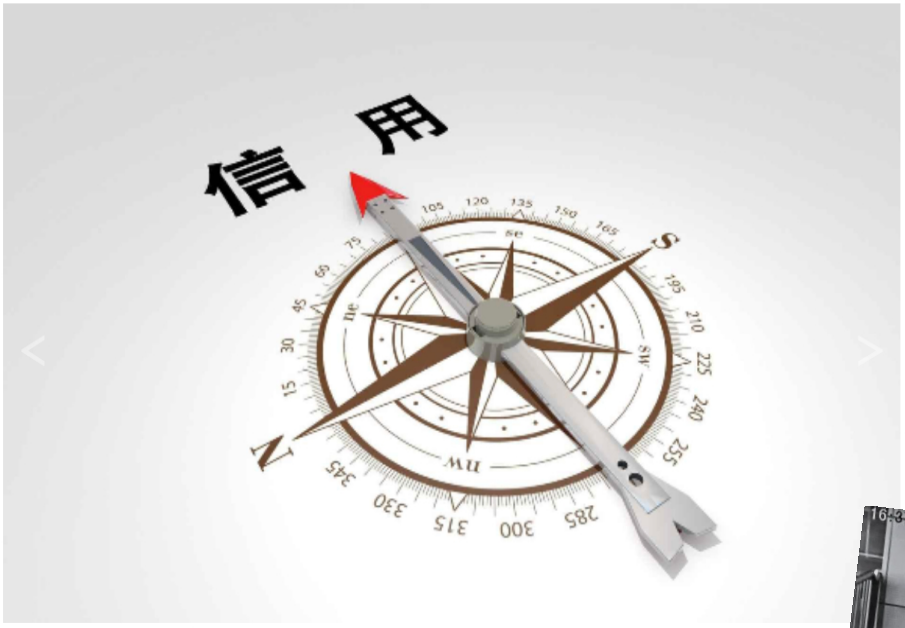


广州市公共信用信息管理规定 1 2

头条新闻 / 政声传递 / 行政许可 / 行政处罚 /

- “信用广州”云学堂 2024-04-26
- 失信信息信用修复指引 2024-04-12
- 广州市公共信用信息管理规定 2024-02-21
- 广州市失信行为纠正后的信用信息修复指引... 2023-10-12
- 海关总署关于增加高级认证企业便利措施促... 2024-04-25
- 市场监管总局召开经营主体信用监管标准体... 2024-04-24
- 2024-04-24
- 2024-04-17

信用专区

行政处罚信用修复

站工作报表

用网站专区

信曝光平台

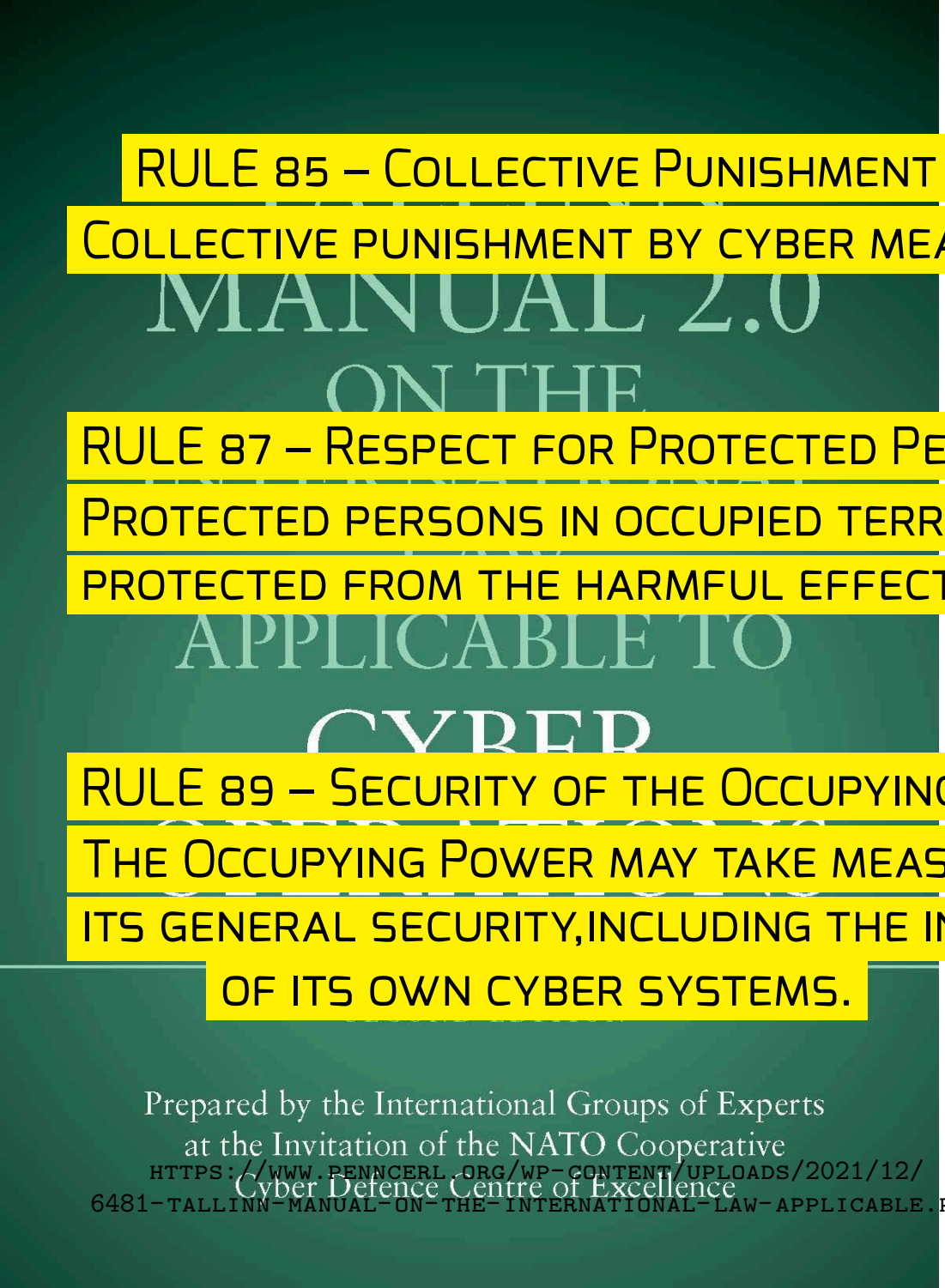
TALLINN MANUAL 2.0 ON THE INTERNATIONAL LAW APPLICABLE TO CYBER OPERATIONS

SECOND EDITION

Prepared by the International Groups of Experts at the Invitation of the NATO Cooperative Cyber Defence Centre of Excellence

CHAPTER II: THE USE OF FORCE
Section 1: Prohibition of the Use of Force
RULE 10 – Prohibition of Threat or Use of Force
RULE 11 – Definition of Use of Force
RULE 12 – Definition of Threat of Force
Section 2: Self-Defence
RULE 13 – Self-Defence Against Armed Attack
RULE 14 – Necessity and Proportionality
RULE 15 – Imminence and Immediacy
RULE 16 – Collective Self-Defence
RULE 17 – Reporting Measures of Self-Defence
Section 3: Actions of International Governmental Or
RULE 18 – United Nations Security Council
RULE 19 – Regional Organisations

PART B: THE LAW OF CYBER ARMED CONFLICT
CHAPTER III: THE LAW OF ARMED CONFLICT GENER
RULE 20 – Applicability of the Law of Armed Conflict
RULE 21 – Geographical Limitations
RULE 22 – Characterisation as International Armed Con
RULE 23 – Characterisation as Non-International Armed
RULE 24 – Criminal Responsibility of Commanders and
CHAPTER IV: CONDUCT OF HOSTILITIES
Section 1: Participation in Armed Conflict
RULE 25 – Participation Generally
RULE 26 – Members of the Armed Forces
RULE 27 – Levée en Masse
RULE 28 – Mercenaries
RULE 29 – Civilians
Section 2: Attacks Generally
RULE 30 – Definition of Cyber Attack
RULE 31 – Distinction
Section 3: Attacks against Persons
RULE 32 – Prohibition on Attacking Civilians
RULE 33 – Doubt as to Status of Persons
RULE 34 – Persons as Lawful Objects of Attack
RULE 35 – Civilian Direct Participants in Hostilities
RULE 36 – Terror Attacks
Section 4: Attacks against Objects



RULE 85 – Collective Punishment

Collective punishment by cyber means is prohibited.

RULE 87 – Respect for Protected Persons in Occupied Territory

Protected persons in occupied territory must be respected and protected from the harmful effects of cyber operations.

RULE 89 – Security of the Occupying Power

The Occupying Power may take measures necessary to ensure its general security,including the integrity and reliability of its own cyber systems.

CHAPTER II: THE USE OF FORCE
Section 1: Prohibition of the Use of Force
RULE 10 – Prohibition of Threat or Use of Force
RULE 11 – Definition of Use of Force
RULE 12 – Definition of Threat of Force
Section 2: Self-Defence
Against Armed Attack
Proportionality
RULE 15 – Imminence and Immediacy
RULE 16 – Collective Self-Defence
RULE 17 – Reporting Measures of Self-Defence
Section 3: Actions of International Governmental Org
Armed Conflict
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Section 2: Attacks Generally
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HTTPS://WWW.PENNCERL.ORG/WP-CONTENT/UPLOADS/2021/12/6481-TALLINN-MANUAL-ON-THE-INTERNATIONAL-LAW-APPLICABLE.PDF

WHAT COULD GO WRONG?

Pay attention to each of our choices today for tomorrow

I was working freelance for a car-sharing company offering self-service electric cars in Paris. The "valets" (sic), i.e. the employees in charge of collecting, repairing, cleaning or transporting the vehicles around the capital, were equipped with GPS-enabled tablets to facilitate the logistical orchestration of the work.

HR saw it as an ideal tool for controlling the comings and goings of employees, and in particular the distance between the operators' assigned location and the theoretical time of their mission. Mentioning the idea, they even started talking about a ranking and a rhedibitory threshold.

I didn't get old, but my N+1 assured me that another free would implement the feature anyway. I never found out if that was followed up.

Annexia

DING DONG !

AVEC L'OFFRE **ANNEXIA PLUS**
NOUS SOMMES CHEZ VOUS
EN MOINS DE 30 MINUTES*

* Offre réservée aux clients domiciliés dans un pays membre du G12.
Voir les détails de l'offre sur le site ANNEXIA.

Ô LUCKY WE ARE, AN ADVERTISEMENT HAS JUST SLIPPED INTO THE PRESENTATION !

FROM CARBON SQUAD, A ROLE PLAYING GAME BY HENRI LOEVENBRUCK.

WHAT COULD GO WRONG?

Pay attention to each of our choices today for tomorrow

The idea didn't actually come from me.

But more than 25 years ago, I had to work on an HR module enabling the mass migration of employees from one company subsidiary to another. (I was introduced to it as part of a company merger).

It was first used in my own company to migrate part of the workforce to the ANPE/Pole Emploi/France Travail [8] *.*

8. French governmental agency which registers unemployed people, helps them find jobs and provides them with financial aid.

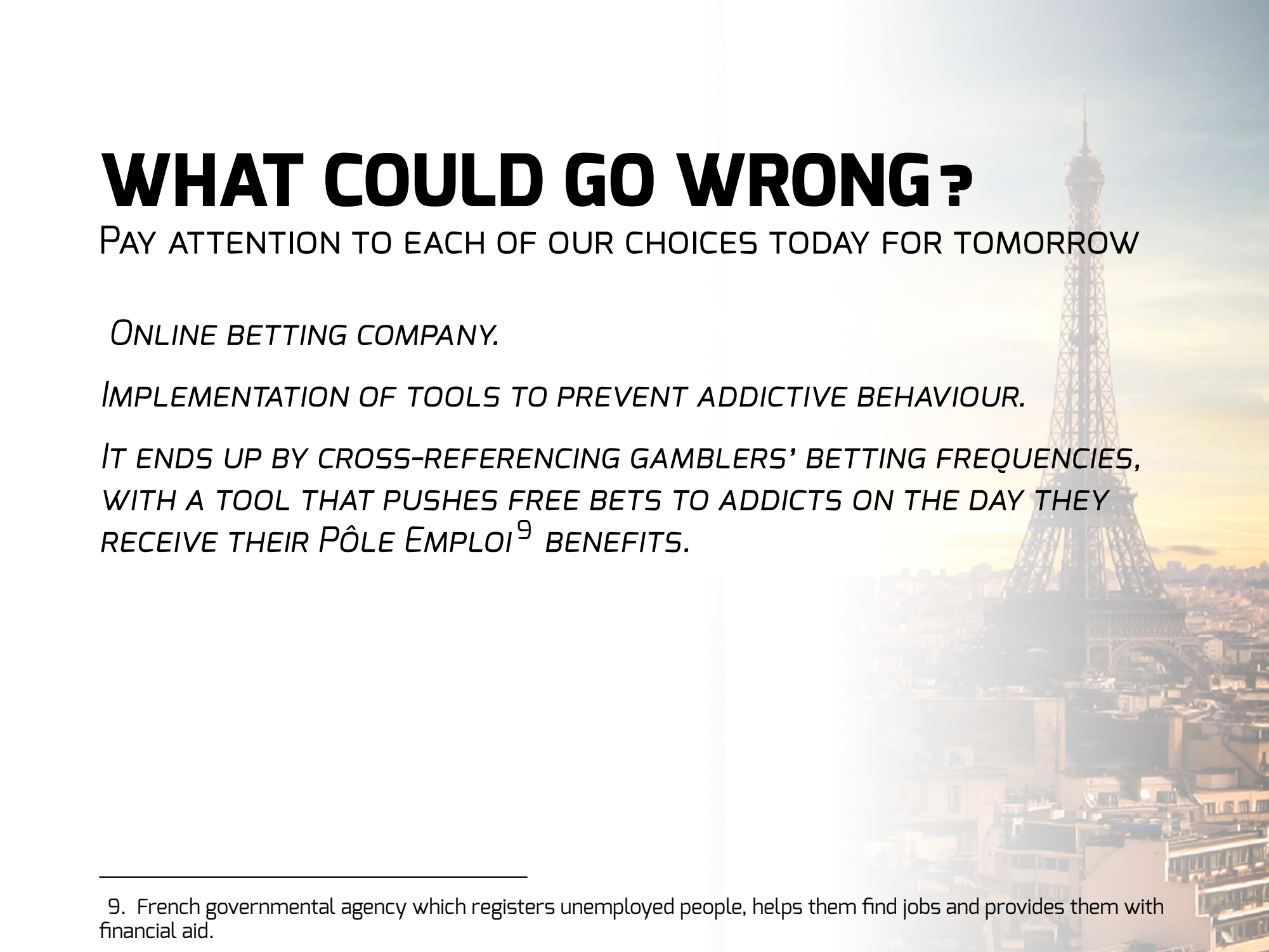
WHAT COULD GO WRONG?

Pay attention to each of our choices today for tomorrow

Online betting company.

Implementation of tools to prevent addictive behaviour.

It ends up by cross-referencing gamblers' betting frequencies, with a tool that pushes free bets to addicts on the day they receive their Pôle Emploi[9] benefits.



9. French governmental agency which registers unemployed people, helps them find jobs and provides them with financial aid.

Other fictitious scenarios

Where? Neocorporations and dictatorships

Robot Rights

Earth 2050 by Kaspersky, an idea from Ian Pearson, 2016, (or Isaac Asimov?).

The Widespread development of robots and artificial intelligence have necessitated the creation of an appropriate legal framework. A set of documents that regulates the rights of intelligent robots has been elaborated. Subsequently, this code is constantly updated and improved.

Advertising in dreams

Earth 2050 by Kaspersky, an idea from Eugene Chereshnev, 2017.

(...)Lucid dreaming and programmable dreams are a very handy thing(...). Adware - malware for lucid dreams - will push advertising into dreams, so that people won't be able to remember viewing it, but the memory from a dream is guaranteed to work out when a person is shopping for a new product.

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Ô LUCKY WE ARE, AN ADVERTISEMENT HAS JUST SLIPPED INTO THE PRESENTATION!

FROM CARBON SQUAD, A ROLE PLAYING GAME BY HENRI LOEVENBRUCK.

COMMENTS

We forget ! habit first, knowledge second

« where is the mouse? » says the 4 years old girl around 2004 when she is confronted to a TV

« I can't find it on the internet » says the teenagers in 2024 when he can't find the information on TikTok or Twitch.

Shit happens ! a Scary entropy

- Google saying « don't be evil »
- The freedom of the web,
- The security with the captcha, etc.
- Tuttle became Buttle

COMMENTS

It's a *choice* (?)

BETWEEN USE **TOO MUCH ENERGY TO LIVE IN A PLEASANT COMPLEXITY**

AND

A RETURN TO **SIMPLICITY**
THAT WILL REQUIRE A GREAT DEAL OF DAILY EFFORT [10]
...

Welcome the eco-villages in the barbarian zones

---

10. Arthur Klein, vers le chaos ?https://www.youtube.com/watch?v=YthNd_PRA08

Reduced energy scenarios

Where? Ecovillages in barbarian zones

Only youtube and wikipedia

The drastic reduction in available energy and raw materials means that in the barbarian zones, only eight server centers remain in the world. They offer just two types of content : youtube (frozen in 2036), and wikipedia (frozen in 2037). They can be used from 10am to 5pm.

New geek look

The coder has become the most muscular person in the village : he or she pedals while coding to power the village computer.

Mesh network are local network

A village we are fragile. A Bluetooth mesh network links houses and villages together. With the three small towns we're an entity of 20,000 people, and we're connected and we'll withstand the shocks. We're also ready to set off fires to warn each other.

Look elsewhere, 2024

Where? Africa

Load Shedding

« Infamous "load-shedding" – a practice of cutting off electricity to whole sections of the city in order to conserve power in Ghana. They never mind that you need electricity to work and you need to work to eat. Nowadays things are much better - they just cut off electricity without any warning whatsoever or the power fluctuates crazily and the electricity corporation thinks that is entirely normal. With this load-shedding factor you should be rest assured that most developers cannot meet their deadlines – Raindolf Owusu, 2012 » [11].

Jack of all trades and master of nothing.

« [...]An African developer tries to play all the roles in a company from being the CEO to the company's publicist. Instead of focusing on one thing and mastering the art. He spends his time mastering all the aspects of a company. It is sometimes good but it comes with its own banes.It is also great for a developer to understand all the roles but it will be best if he can focus on one lead role and be a master of it. So in one start up we could have a developer, user interface designer, two top coders and one marketing guy – Raindolf Owusu, 2012 »

---

11. Agonies of an african programmer 2, Raindolf Owusu, https://raindolf.blogspot.com/2012/10/agonies-of-african-programmer-part-2.html

Look elsewhere, 2024

Where?

Africa : network of cybercases

« Senegal's objective is to install 130 cybercases in the country, and eventually 350. The program calls for each Cybercase to train between 500 and 1,000 young people a year in fields as diverse as agriculture and electronics, in order to reduce the digital gap and facilitate the search for knowledge. (2011) [12] *»*

Cuba : network time regarding your profession and status

« (...)In 2018, Santos-Menéndez's mother was selected as part of a government program that provides doctors and other state employees in elevated positions with 30 hours/month of free dial-up Internet in their homes.(...) Small files, such as event flyers, menus, and itineraries, are often sent through WhatsApp. Larger files, such as logos, films, and video performance clips, often need to be transferred directly from a memory stick. [13] *»*

Vanuatu : limited bandwidth

« We only have like 10Mbps of bandwidth, it's crap »

---

12. https://cursus.edu/fr/8314/afrique-les-cybercases-pour-relier-les-villages-africains-au-village-mondial

13. https://arstechnica.com/information-technology/2021/02/how-cubans-make-island-internet-work-for-them/

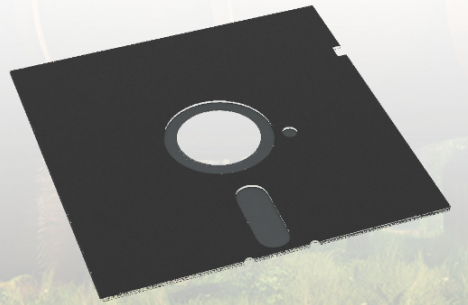
Look elsewhere, 2024

Where?

Under the carpet : San Francisco

San Francisco's Train System Still Uses Floppy Disks—and Will for Years. (...)The San Francisco Municipal Transportation Agency, which runs the city's Muni Metro light rail, claims to be the first US agency to adopt floppy disks.(...) « If it ain't broke don't fix it », some say. But while the floppy-disk-reliant train control system is currently working, there are challenges to relying on the dated technology, When asked how "dire" it is to upgrade off of floppy disks, (...) that it's all about risk.

https://www.wired.com/story/san-francisco-muni-trains-floppy-disks/



- **ETHICS**
  - PREPARE FOR TRACKING / RIGHTS /PRIVATE ISSUES
  - PREPARE TO DETECT FAKE, FALSE REALITY,
  - PREPARE FOR CYBERWARFARE
- **FAR LESS CODERS, MORE EXPERTS**
  - ULTIMATE EXPERT TO OVERVIEW MACHINE INTELLIGENCE
  - FUNCTIONAL UNDERSTANDING TO OVERVIEW MACHINE INTELLIGENCE
- **HACKING**
  - TO BYPASS THE MACHINES
  - TO BYPASS SECURITY
  - TO KEEP PRIVACY
- **COMPLEXE CODE BUT SIMPLE TO GENERATE (MACHINE DO IT)**
- **« JACK OF ALL TRADE »**
- **FUNCTIONAL UNDERSTANDING**
- **HACKING**
  - LOCAL MESH NETWORK
  - LOCAL STORAGE
  - SHARED DATA WITHOUT NETWORK
- **SIMPLE BUT COMPLICATED CODE (MEMORY ALLOCATION, MACHINE LANGUAGE, ETC.)**

Hacking is key

Hacking is the use of unconventionnal... [14]

14. https://www.ibm.com/topics/cyber-hacking

Who wants to work 100% remote?

Please raise your hand.

PERFECT MATCH !!!
WELCOME HERE CODERS !
100% REMOTE WORK
FRIENDLY PLACES

Are we talking about an utopia? A distopia?

What's real here?

Resistance is not an utopia (or distopia)

Resistance is built on small steps of normal behaviour.

« Resistance is optimism not utopia ».

Listen to (in french) :

« Resistance is not an utopia »

by **Lucie Aubrac**

https://www.youtube.com/watch?v=UMtrx9qX8RI

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