



Info Support International Group

Consultancy	Productbedrijven	
<p>» Info Support NL</p> <ul style="list-style-type: none"> Softwareontwikkeling Beheer Training 	<p>» R&R WFM</p> <ul style="list-style-type: none"> SaaS-oplossing Personeelsplanning 	<p>» ZorgInfo</p> <ul style="list-style-type: none"> SaaS-oplossing Zorgprocessen 
<p>» Info Support BE</p> <ul style="list-style-type: none"> Softwareontwikkeling Beheer Training 	<p>» Datarotonde</p> <ul style="list-style-type: none"> SaaS-oplossing Data-integratie 	<p>» BESTMIX</p> <ul style="list-style-type: none"> Software voor het produceren en verhandelen van voeding 

Info Support International Group facts

Opgericht in 1986 in Nederland	 600+ medewerkers	Specialized cloud solutions 
 Activiteiten in Europa, Amerika en Azië	Jaarlijkse omzet  80 miljoen	 Lange termijn focus
	Familiebedrijf (niet-beursgenoteerd) 	Custom made SOFTWARE solutions

Permanent Strategische Impact

 Soliditeit	 Vakmanschap
 Integriteit	 Passie



Project: NS

12 miljoen berichten per dag die het reizen sneller, veiliger en betrouwbaarder maken.

A presentation slide with a dark background and colorful abstract shapes. In the center is a diagram of three concentric circles: an inner dark blue circle labeled 'HTML Styling', a middle light blue ring labeled 'CSS', and an outer light blue ring labeled 'CSS Animations'. In the bottom left corner, it says 'Zone of Proximal Development Lev Vygotsky'. In the bottom center, it says 'Learning Through Tinkering'. In the top right, there is a logo for 'J-FALL 2021' with a red leaf-like graphic. In the bottom right, there is a small inset video of a man, 'Tom Cools', speaking on a stage.

CSS Animations

CSS

HTML Styling

Zone of Proximal Development
Lev Vygotsky

Learning Through Tinkering

J-FALL 2021

Tom Cools

What's the price of a mistake?



```
name: "Daniel Verlaan"  
adres: "Barend en Van Dorpweg 2"  
email: "  
phone: "0620 "  
bsn: "766427840"  
passport: "RT42L22Z2"  
result: "Negatief"  
test: "Antigeen sneltest"
```

Klarna battles serious data breach, with reports of leaked user info

The Buy Now Pay Later giant is battling a tech error, which compromised some user information

**We need to regulate our own industry,
Before we are forced to regulate.**

- Bob Martin (author of Clean Code)



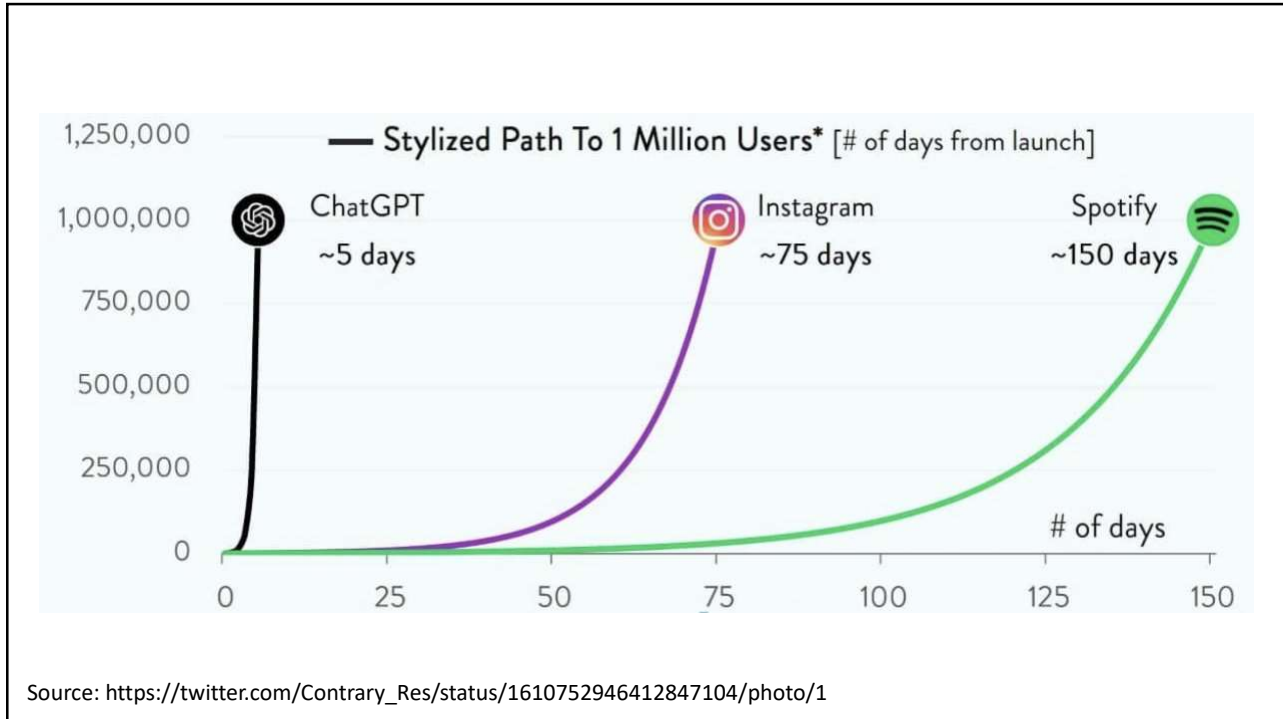
“Half-Life is the time required for a quantity to reduce to half its initial value.”

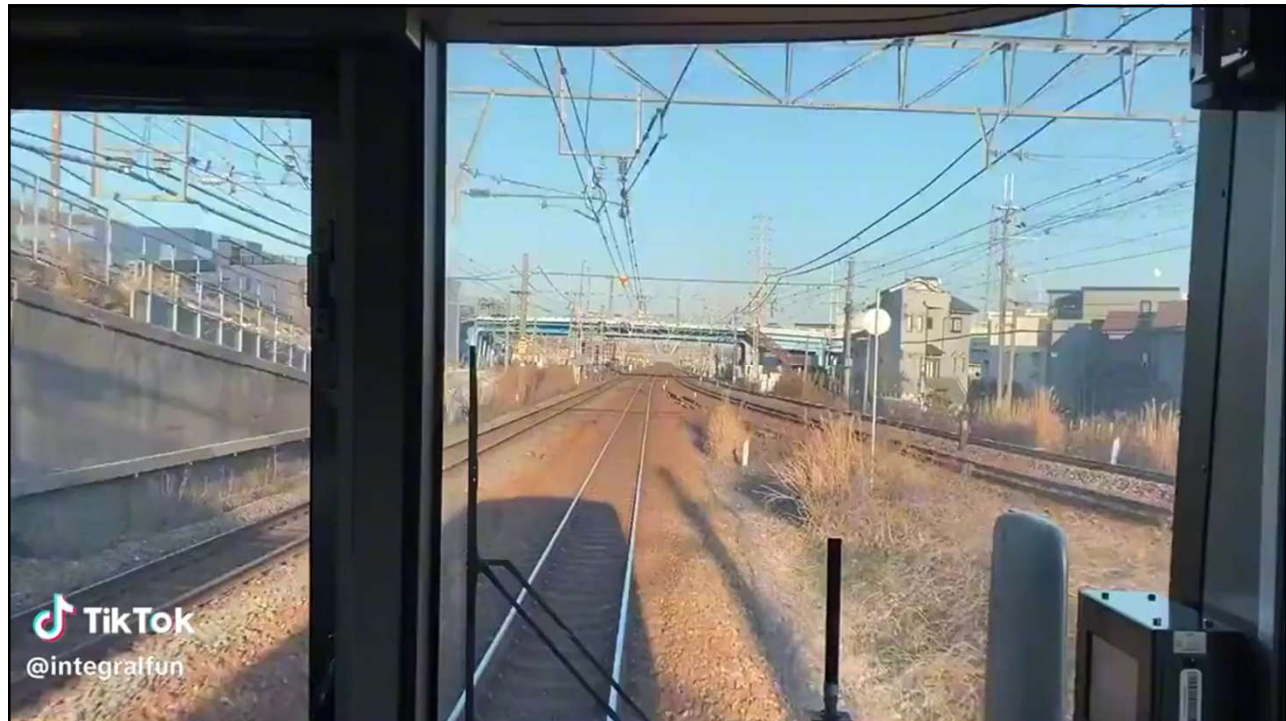




A hype today could be a standard tomorrow

- Java 17 (September 17, 2021)
- Quarkus (March 7, 2019)
- Kotlin (February 15, 2016)
- Kubernetes (July 21, 2015)
- Spring Boot (April, 2014)
- Docker (March 13, 2013)





Learning Through Tinkering

- Finding the right things to learn about;
- Applying what you learned;
- Common mistakes while learning;
- Getting to most out of your new knowledge;

Learning Through Tinkering

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Picking something to learn...

Tiktok

Meetups

Technology Radar

Conferences

Blogs

Colleagues



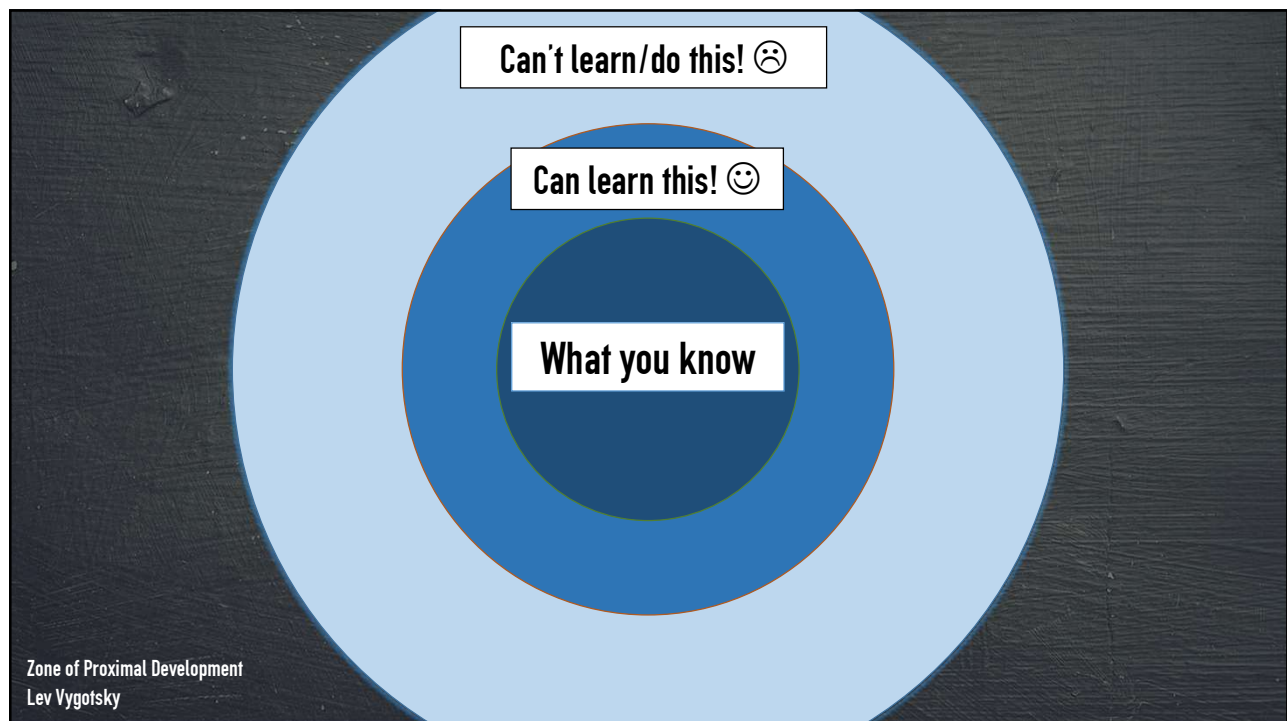
Belgian Java User Group

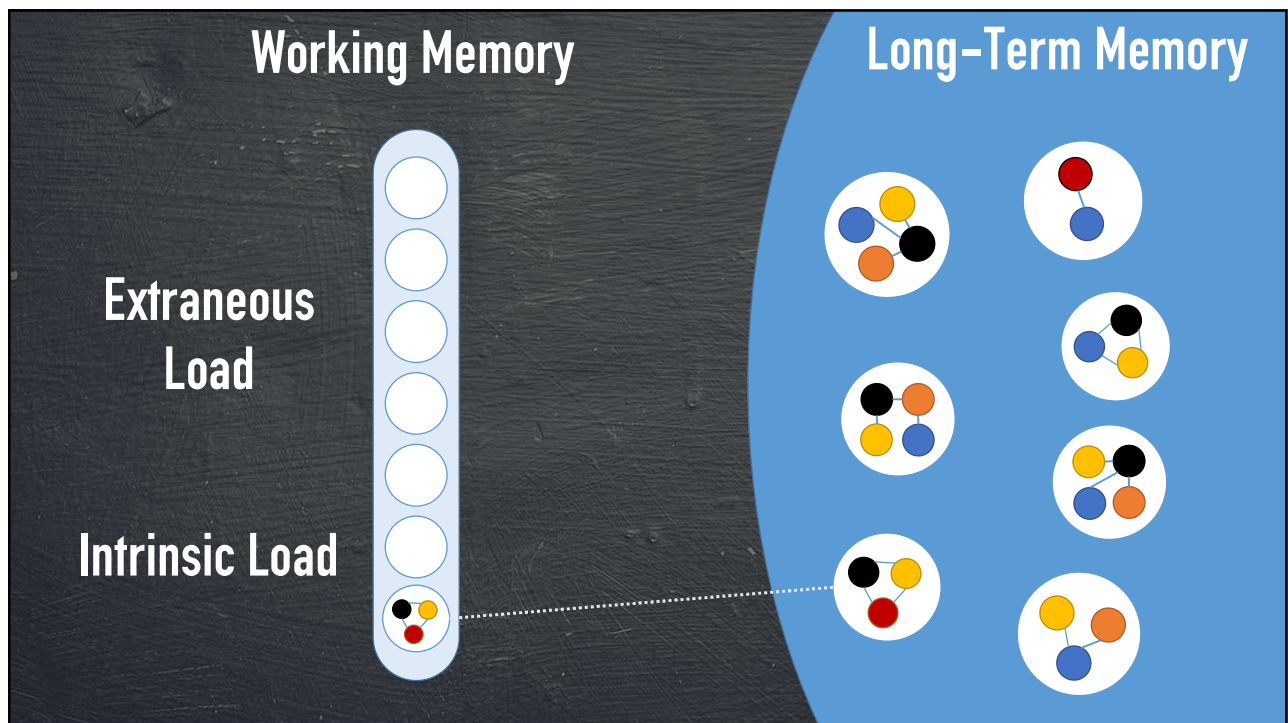
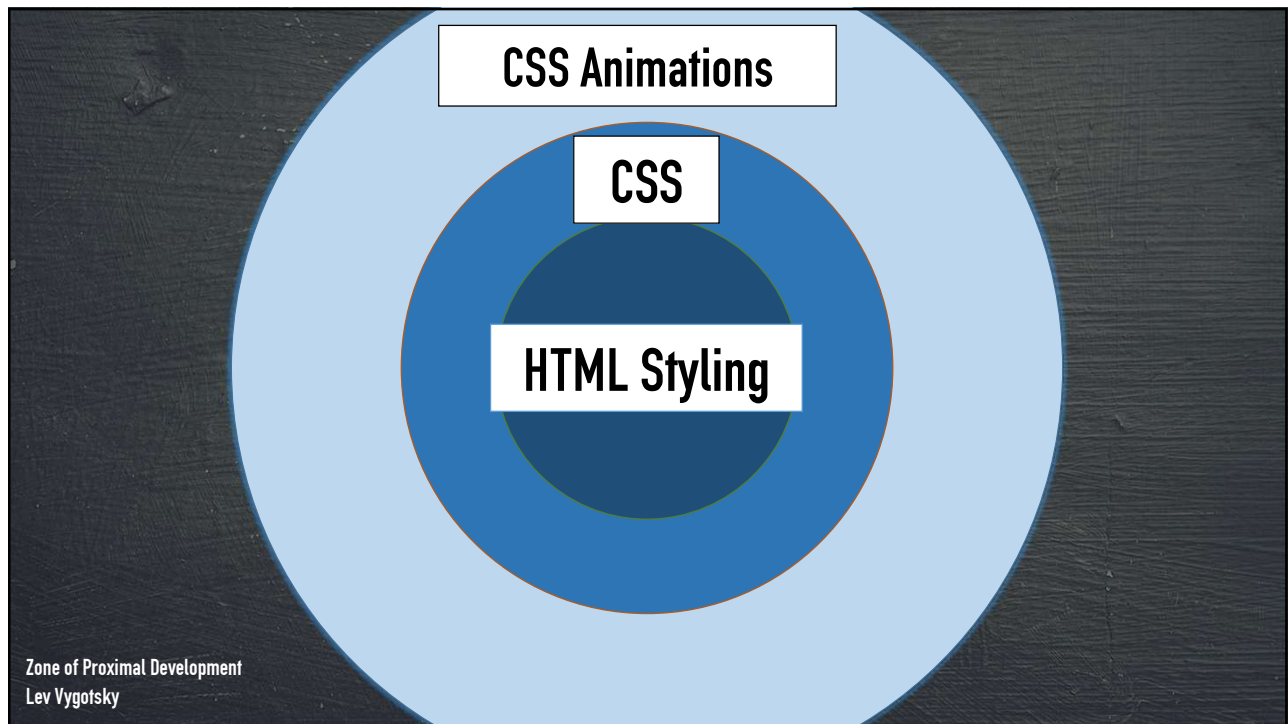
- 📍 Brussels, Belgium
- 👥 1,449 members · Public group ⓘ
- 👤 Organized by **Tom Cools** and **9 others**

Share: [n](#) [f](#) [t](#) [in](#) [✉](#)

"One should not pursue goals that are easily achieved. One must develop an instinct for what one can just barely achieve through one's greatest efforts."

– Albert Einstein





“Technical implementations decay faster than the concepts they are based on”

Concepts don't decay as fast

- **Object Oriented Programming**
- **Functional Programming**
- **TDD**
- **DDD**
- **Design Patterns**
- **Clean Code**

<https://roadmap.sh/roadmaps>

CODING COACH

Connecting developers with mentors worldwide

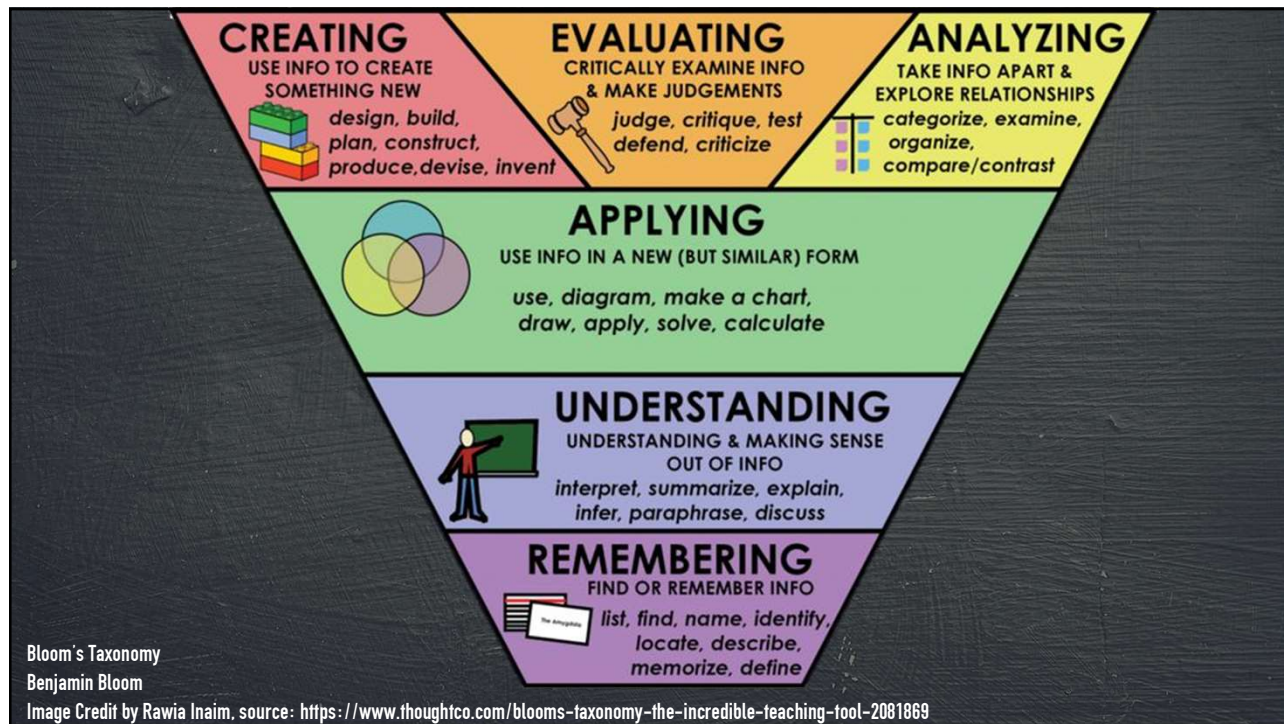
FIND A MENTOR





Learning Through Tinkering

- Finding the right things to learn about;
- Applying what you learned;
- Common mistakes while learning;
- Getting to most out of your new knowledge;

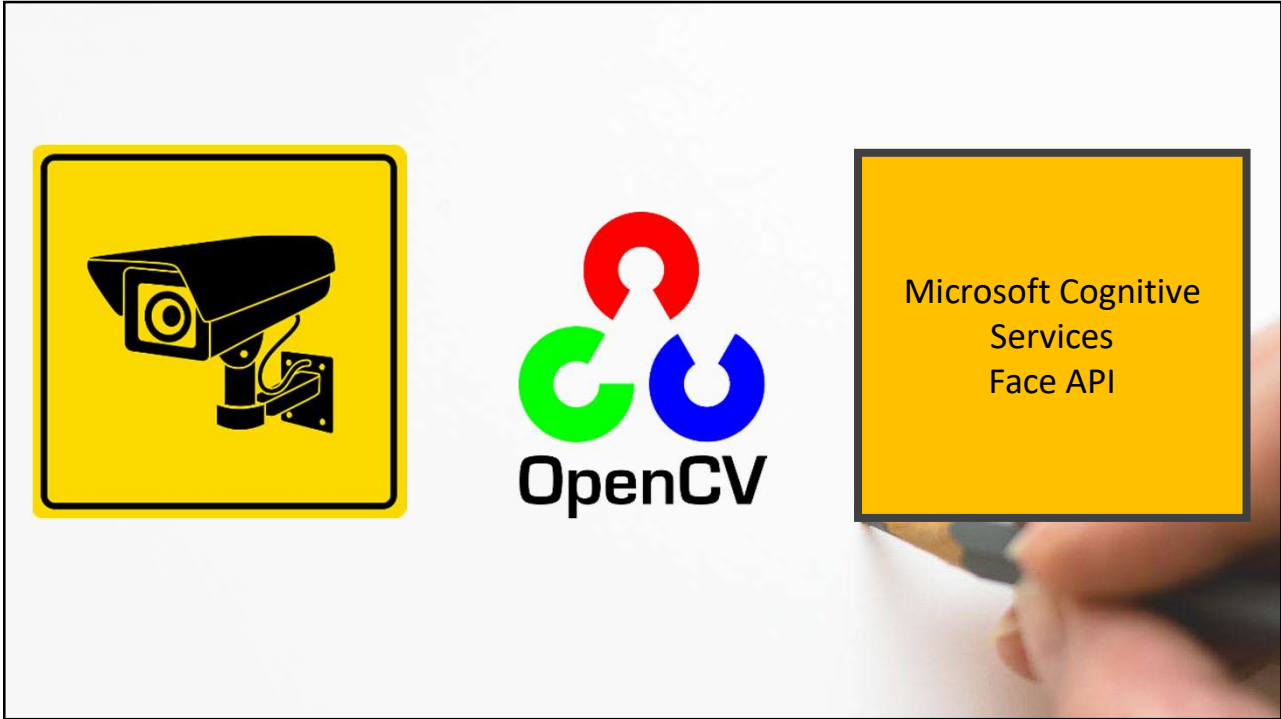


What is tinkering?

“Experimenting with ideas/frameworks
in an integrated environment
to fully understand their capabilities”







Microsoft Cognitive Services
Face API



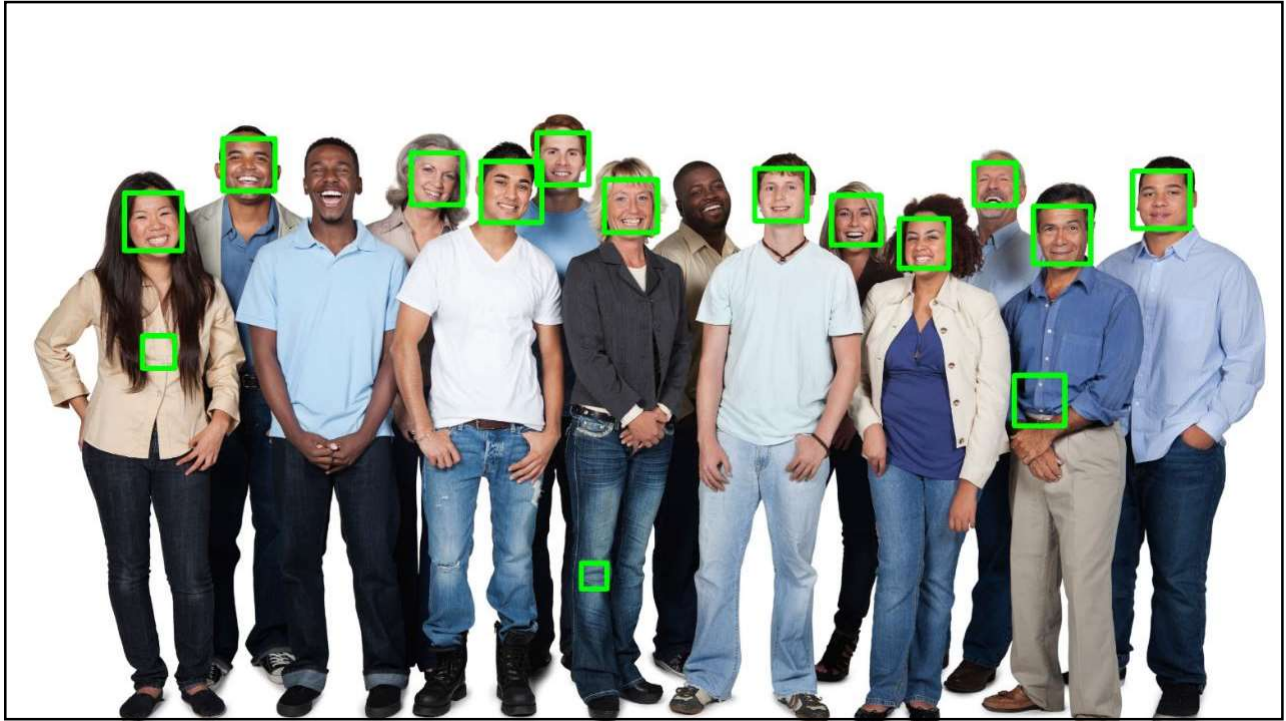
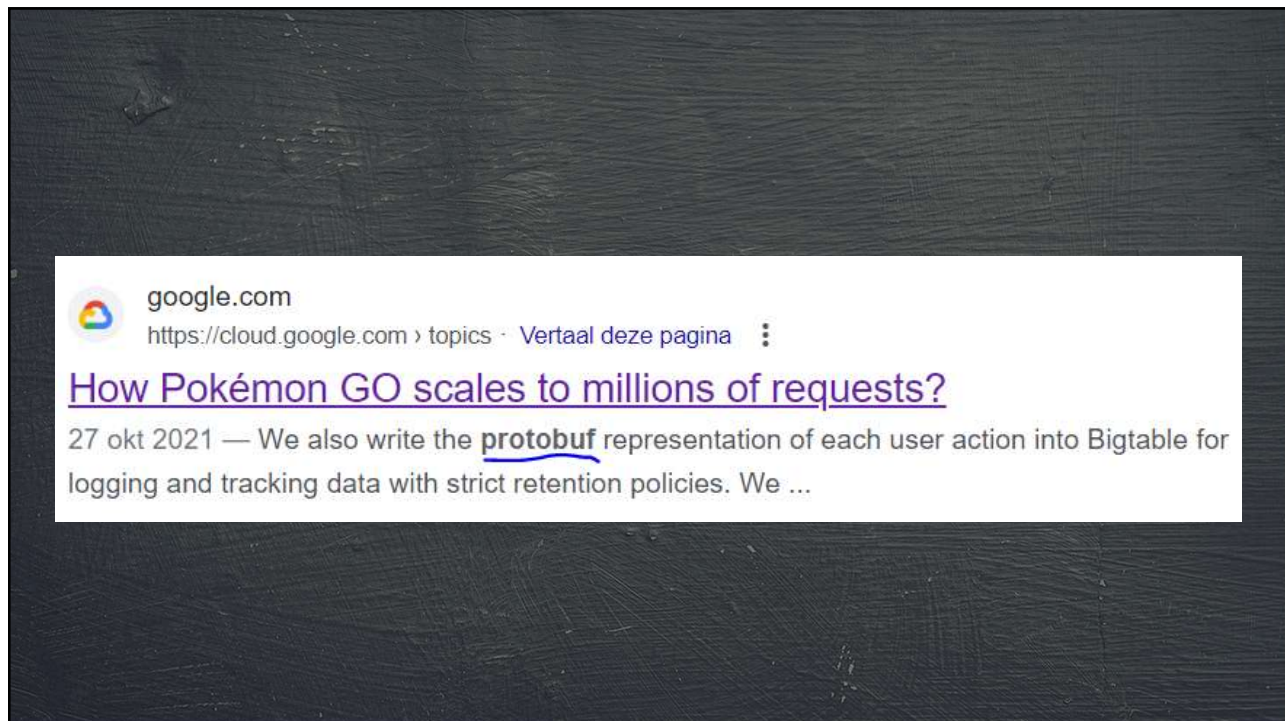
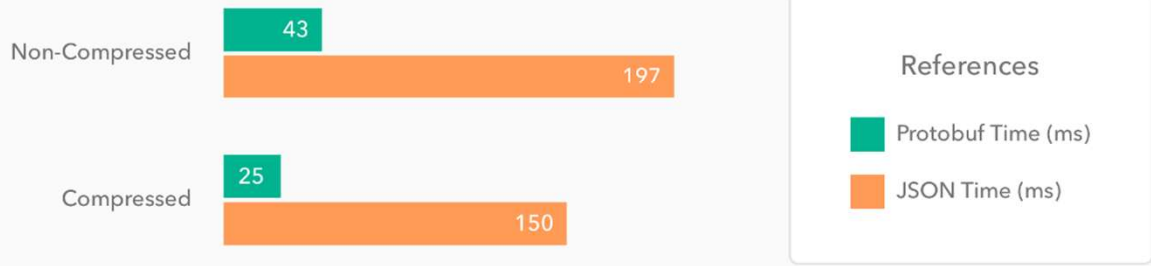




Image: CERN - ATLAS calorimeter
<http://cdsweb.cern.ch/record/910381#02>



Java to Java Communication

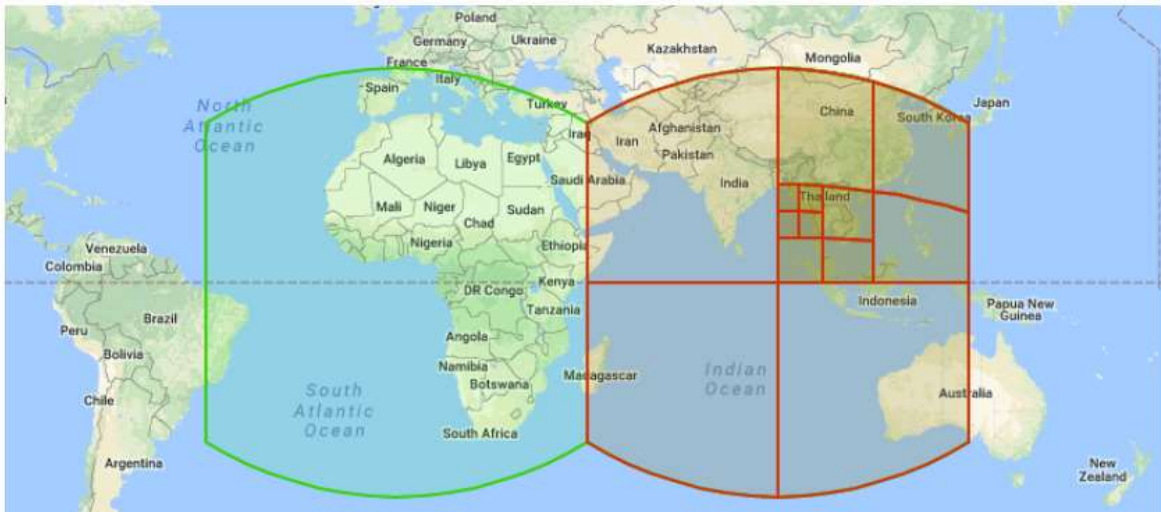


Source: <https://auth0.com/blog/beating-json-performance-with-protobuf/>

S2 Geometry

From: <http://s2geometry.io/>

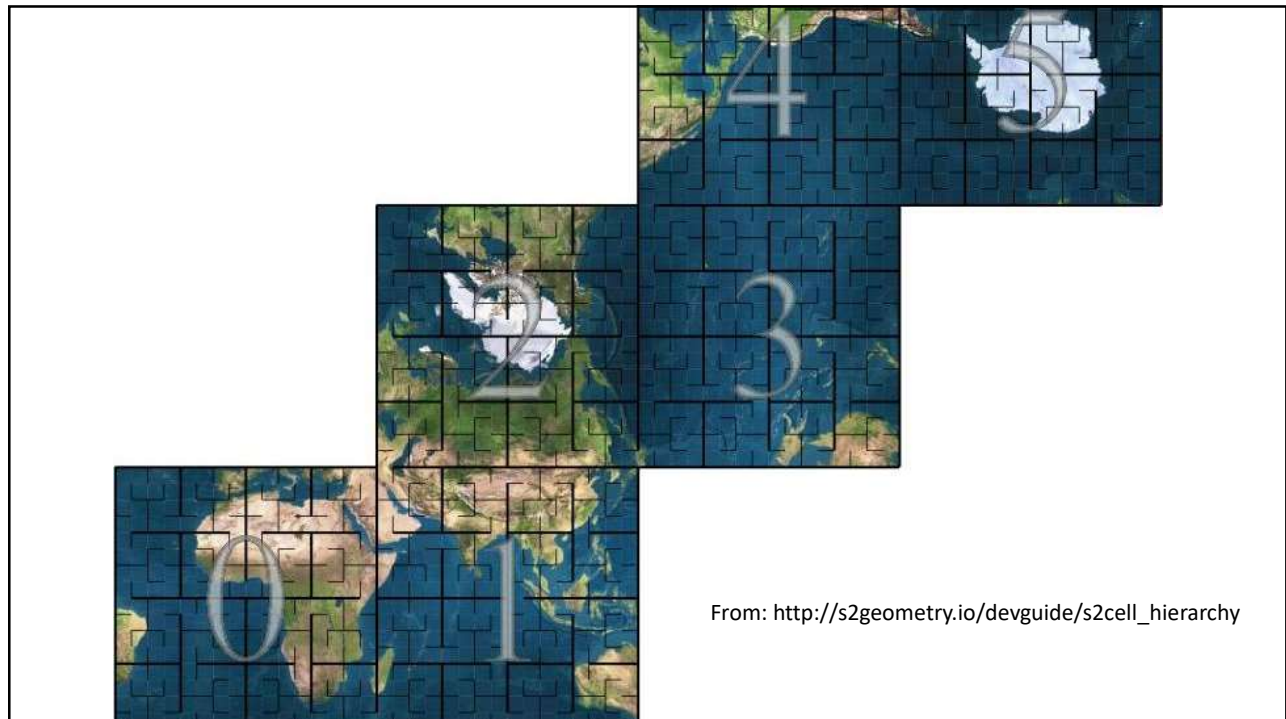
Welcome to the S2 Geometry Library!

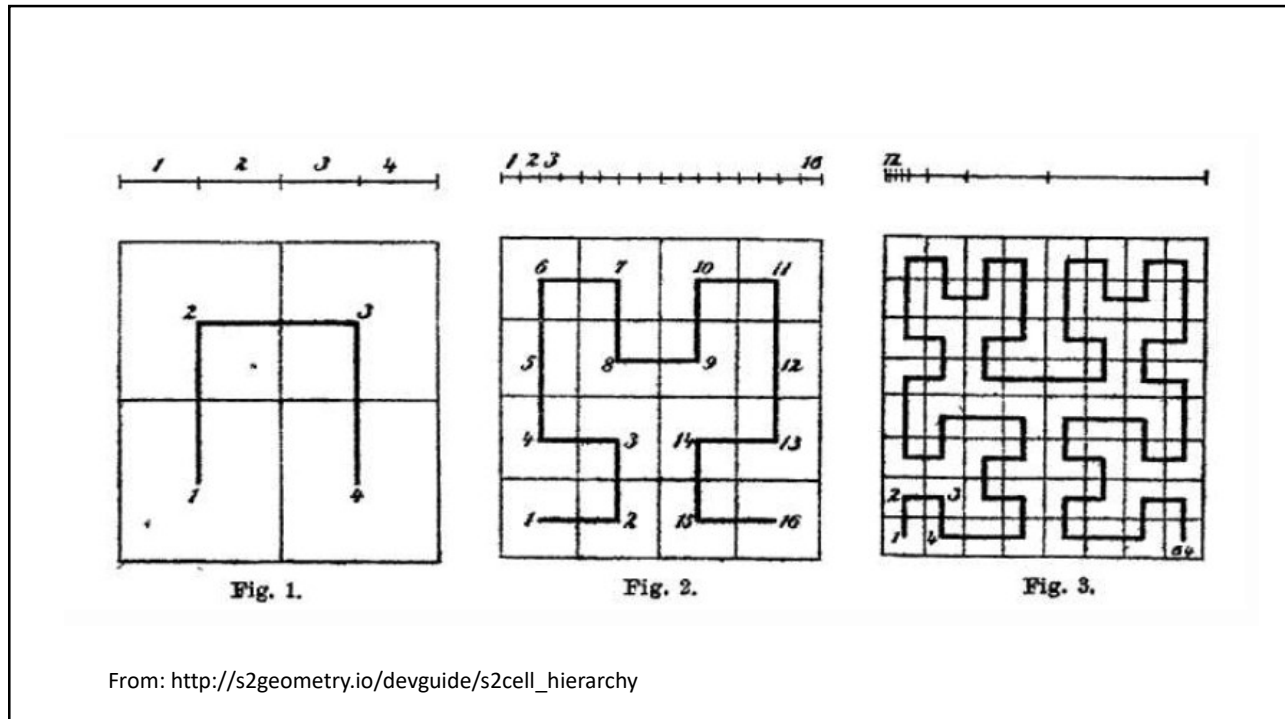


Location based on Latitude and Longitude

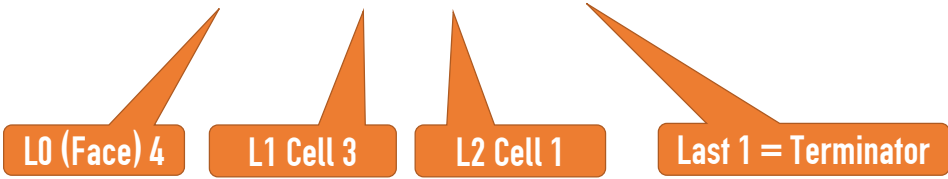
Our Office:

Latitude: 52.040953
Longitude: 5.534875





100 11 01 1000...0



If a L0 cell has an area of **85 011 012.19 km²**,
 how many levels does it take to get to **~1 cm²**?

30 Levels!

30 Levels * 2 bits = 60 bits

3 bits for LO Faces

1 termination bit

You can map every cm² on earth in 64 bits!

001 00 11 01 00 10 01 01 01 10 10 00 10 00 00 10 11 11 01 10 10 01 10 10 00 10 01 11 00 10 10 1

2692B4417B4D1395



**Be concious about
your learning goals**





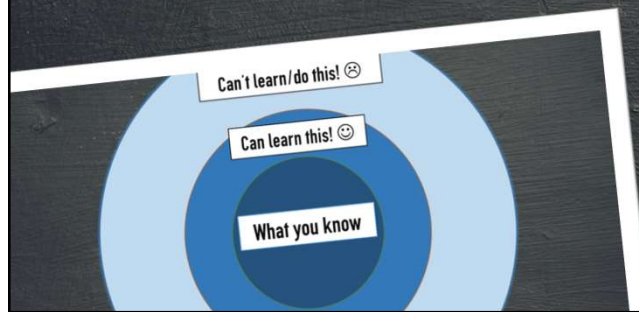
Alternative Approaches



Learning Through Tinkering

- Finding the right things to learn about;
- Applying what you learned;
- **Common mistakes while learning;**
- Getting to most out of your new knowledge;

Too much new stuff



Cramming new knowledge

StackOverflow Based Development

AKA, the copy-paste loop

Step out
&
Don't Come back

**Perfectionism is
not helpfull**

**“Compare yourself to who you were
yesterday, not to who
someone else is today.”**

Ask your colleagues!

**Work towards where
you want to be
in 3 years**

Learning Through Tinkering

- Finding the right things to learn about;
- Applying what you learned;
- Common mistakes while learning;
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Share what you learned!

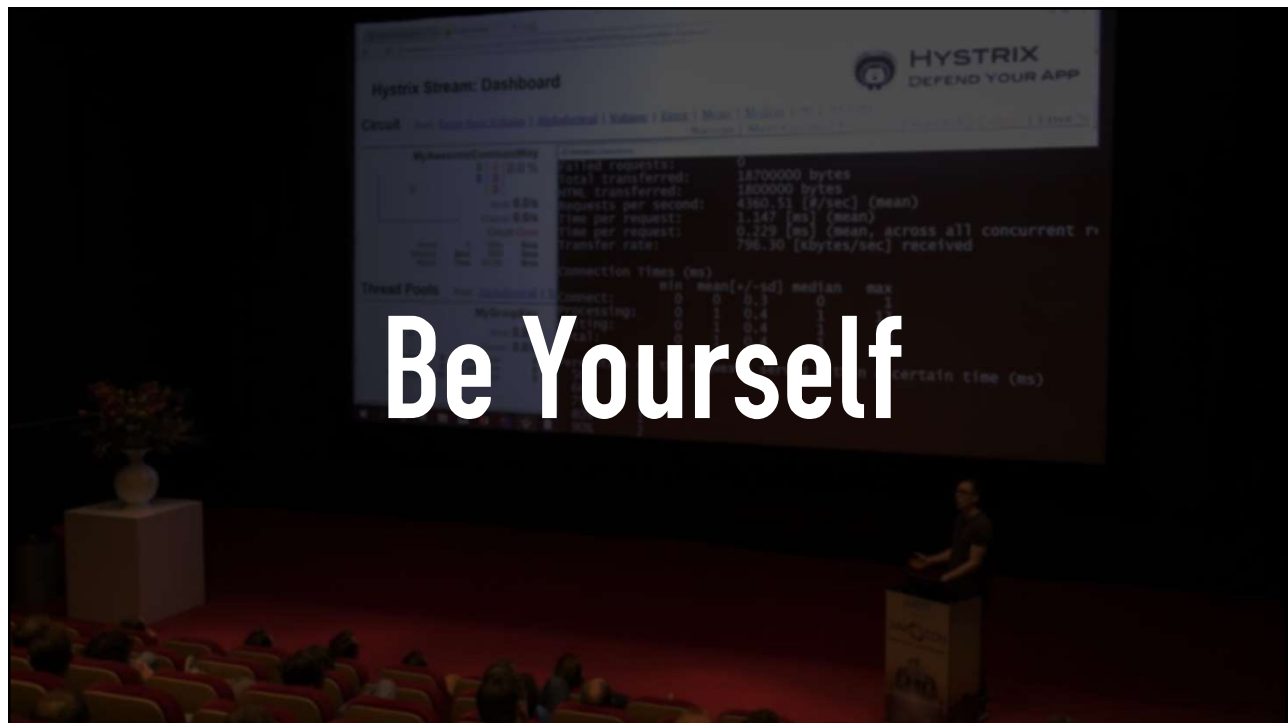


CODING COACH
Connecting developers with mentors worldwide

FIND A MENTOR

Do Good

The image shows a dark green banner for 'CODING COACH'. The text 'CODING COACH' is in large, bold, grey letters. Below it, in smaller white text, is 'Connecting developers with mentors worldwide'. A button with the text 'FIND A MENTOR' is visible. On the right side, there is a large, stylized grey logo consisting of a diamond shape with a circle inside. The background is a dark green gradient.



HYSTRIX
DEFEND YOUR APP

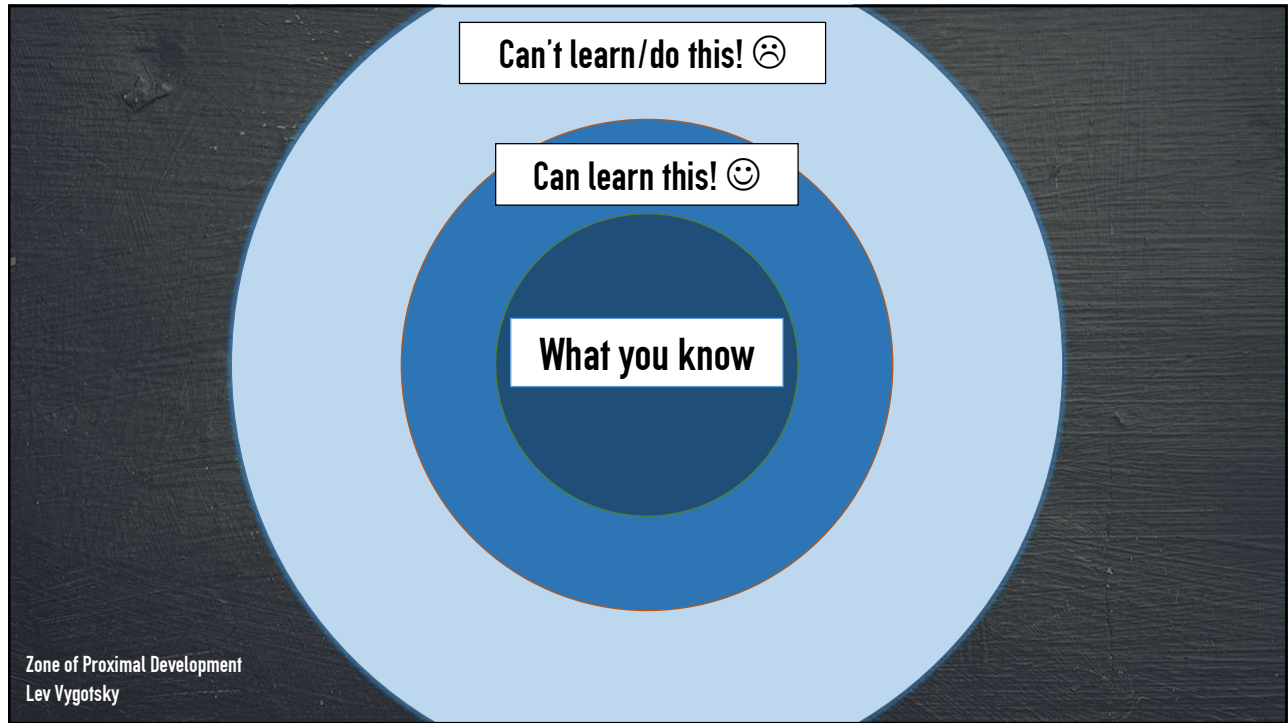
Be Yourself

The image shows a presentation slide for Hystrix. The slide title is 'Hystrix Stream: Dashboard'. It displays various performance metrics for a circuit. The metrics include: 'Request Volume' (0), 'Total Transferred' (18700000 bytes), 'Time Transferred' (18000000 bytes), 'Requests per second' (4360.51 [#/sec] (mean)), 'Time per request' (1.147 [ms] (mean)), 'Time per request' (0.229 [ms] (mean, across all concurrent requests)), and 'Transfer rate' (796.30 [Kbytes/sec] received). There is also a table for 'Connection Times (ms)' with columns for 'connect', 'connectTimeout', 'connectTimeout', 'connectTimeout', and 'connectTimeout'. The slide is part of a presentation, with a speaker visible at the bottom right and an audience in the foreground.



**“Who is responsible to update and maintain
your knowledge and skills?”**

You Are

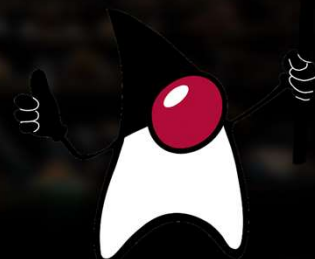


Learning Through Tinkering

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- Applying what you learned;
- Common mistakes while learning;
- Getting to most out of your new knowledge;

Content: tomcools.be/soon- 😊

Twitter: @TCoolsIT





Kent Beck 🌻 ✓
@KentBeck



I've been reluctant to try ChatGPT. Today I got over that reluctance. Now I understand why I was reluctant.

The value of 90% of my skills just dropped to \$0. The leverage for the remaining 10% went up 1000x. I need to recalibrate.

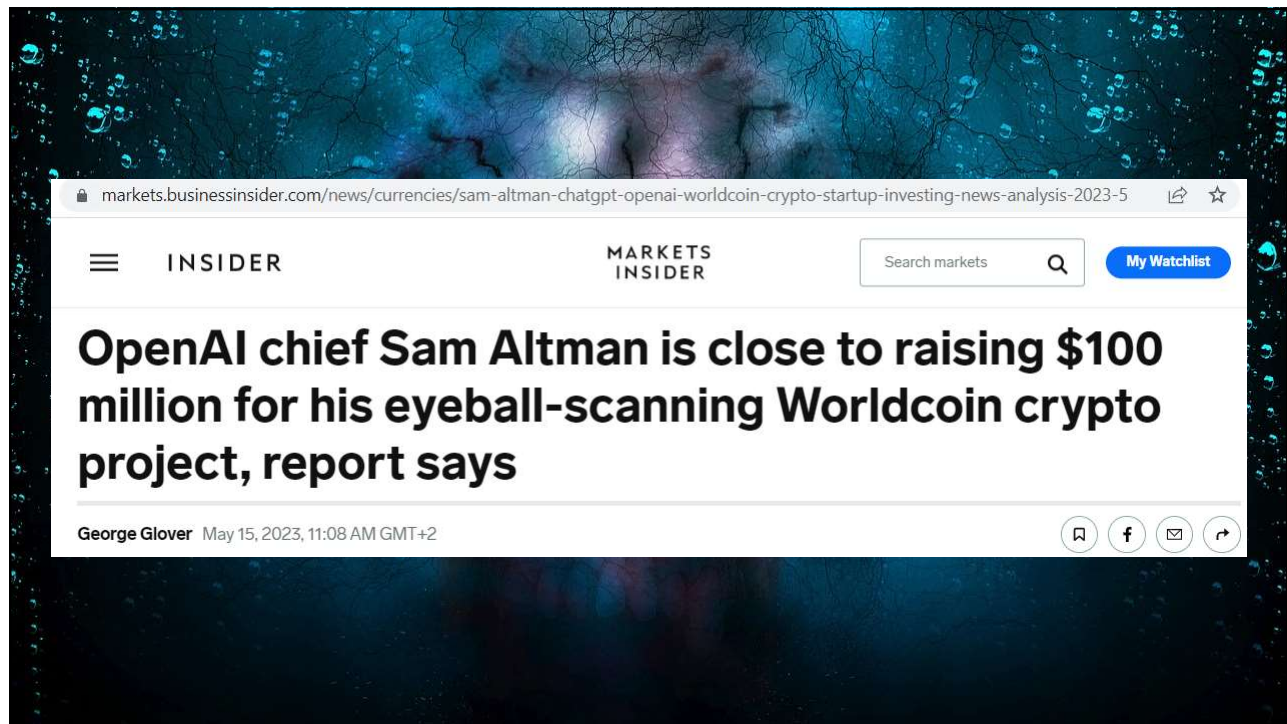
9:51 PM · Apr 18, 2023 · **679.8K** Views






We've been here before

- Books: End of knowledge
- Internet: End of knowledge
- Google: End of knowledge
- Code Completion: End of knowledge
- ChatGPT?



Overreliance is a failure mode that likely increases with model capability and reach. As mistakes become harder for the average human user to detect and general trust in the model grows, **users are less likely to challenge or verify the model's responses.**

Source: <https://cdn.openai.com/papers/gpt-4-system-card.pdf>



**Learning is
about making
connections**

Concepts don't decay as fast

- Object Oriented Programming
- Functional Programming
- TDD
- DDD
- Design Patterns
- Clean Code

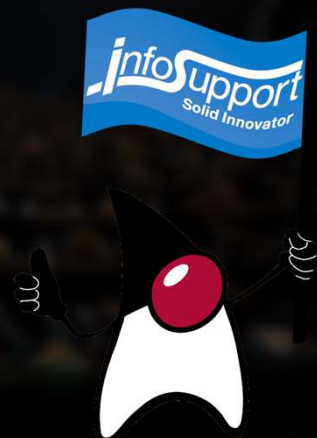
■ What is a Code Reading Club?

It's an experiment!

At its core is the idea that the paradigm we use to teach programming is flawed. One of the most obvious omissions is the ability to read code, both phonetically and analytically. Read [Feliene's blog post](#) for more information about the theory behind it.

Content: tomcools.be/soon- 😊

Twitter: @TCoolsIT





Stageopdrachten:

<https://carriere.infosupport.com/afstudeeropdrachten>



Twitterlijst

Mensen die ik volg waar ik best wel wat informatie uit haal. Kijk zelf even door hun geschiedenis voor je ze volgt, misschien matcht het niet met jou.

- @ThePracticalDev
- @nicolas_frankel
- @ASpittel
- @techgirl1908
- @danielbryantuk