Info Support International Group

Consultancy

Info Support NL
- Softwareontwikkeling
- Beheer
- Training

Info Support BE
- Softwareontwikkeling
- Beheer
- Training

Productbedrijven

R&R WFM
- SaaS-oplossing
- Personeelsplanning

Datarotonde
- SaaS-oplossing
- Data-integratie

ZorgInfo
- SaaS-oplossing
- Zorgprocessen

BESTMIX
- Software voor het produceren en verhandelen van voeding

Info Support International Group facts

Opgericht in
1986
in Nederland

600+
medewerkers

Specialized
cloud
solutions

Jaarlijkse
80 omzet
miljoen

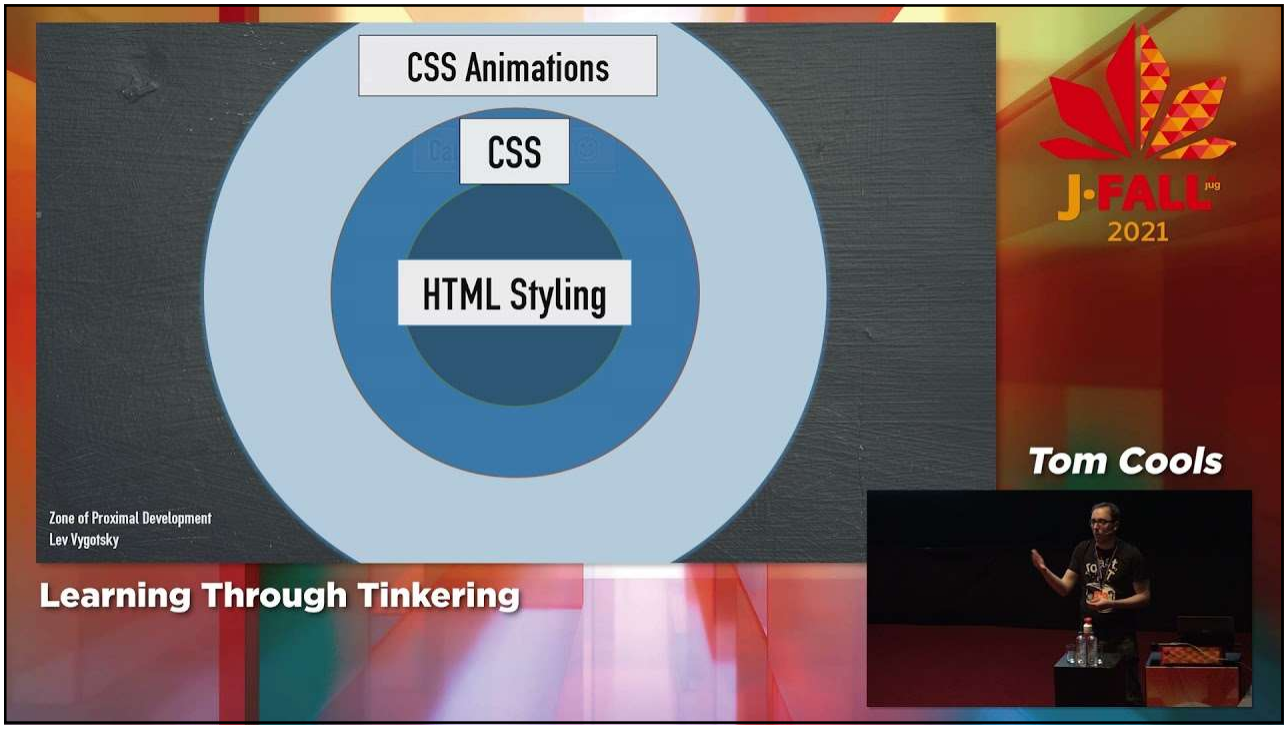
Lange
termijn
focus

Activiteiten
in Europa,
Amerika en Azië

Familiebedrijf
(niet-beursgenoteerd)

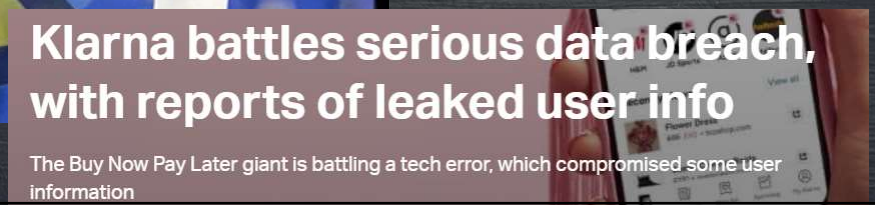
Custom made
SOFTWARE
solutions

Project: NS
12 miljoen berichten per dag die het reizen sneller, veiliger en betrouwbaarder maken.
NS
NS
trein


CSS Animations
CSS
HTML Styling
Zone of Proximal Development
Lev Vygotsky
Learning Through Tinkering
J·FALL
2021
Tom Cools

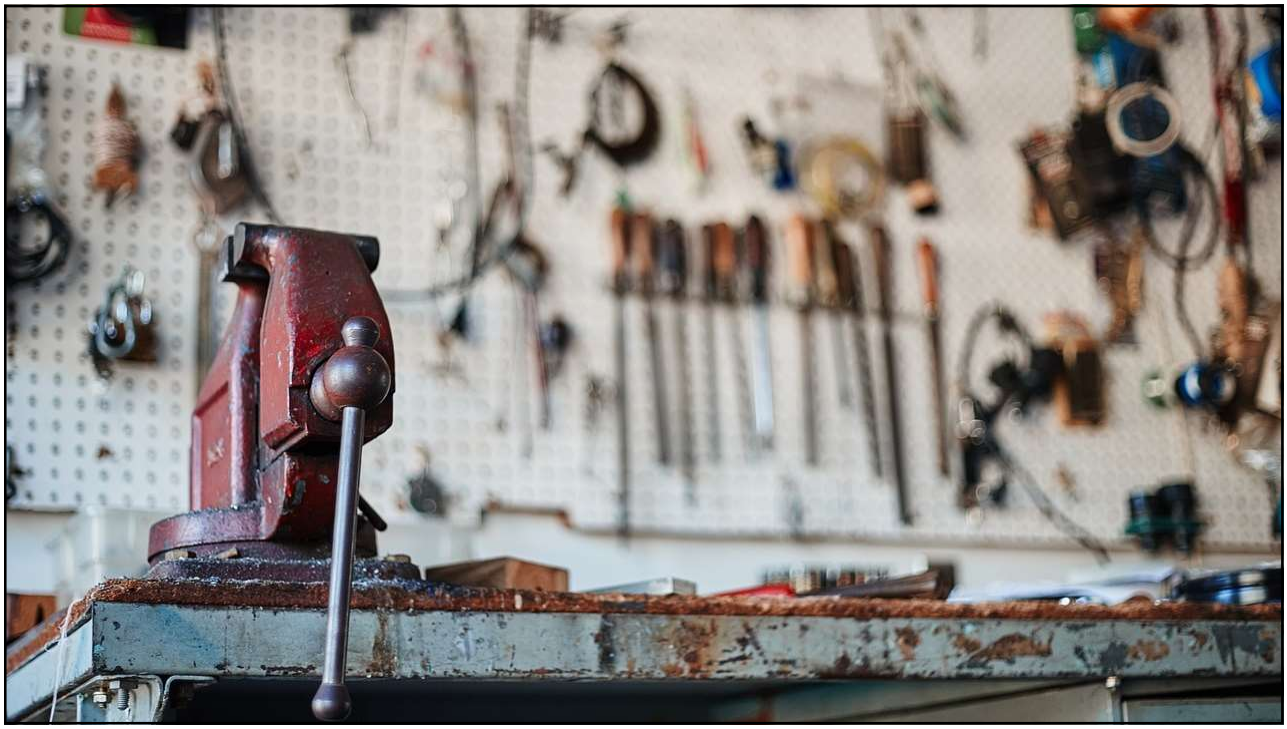
What's the price of a mistake?

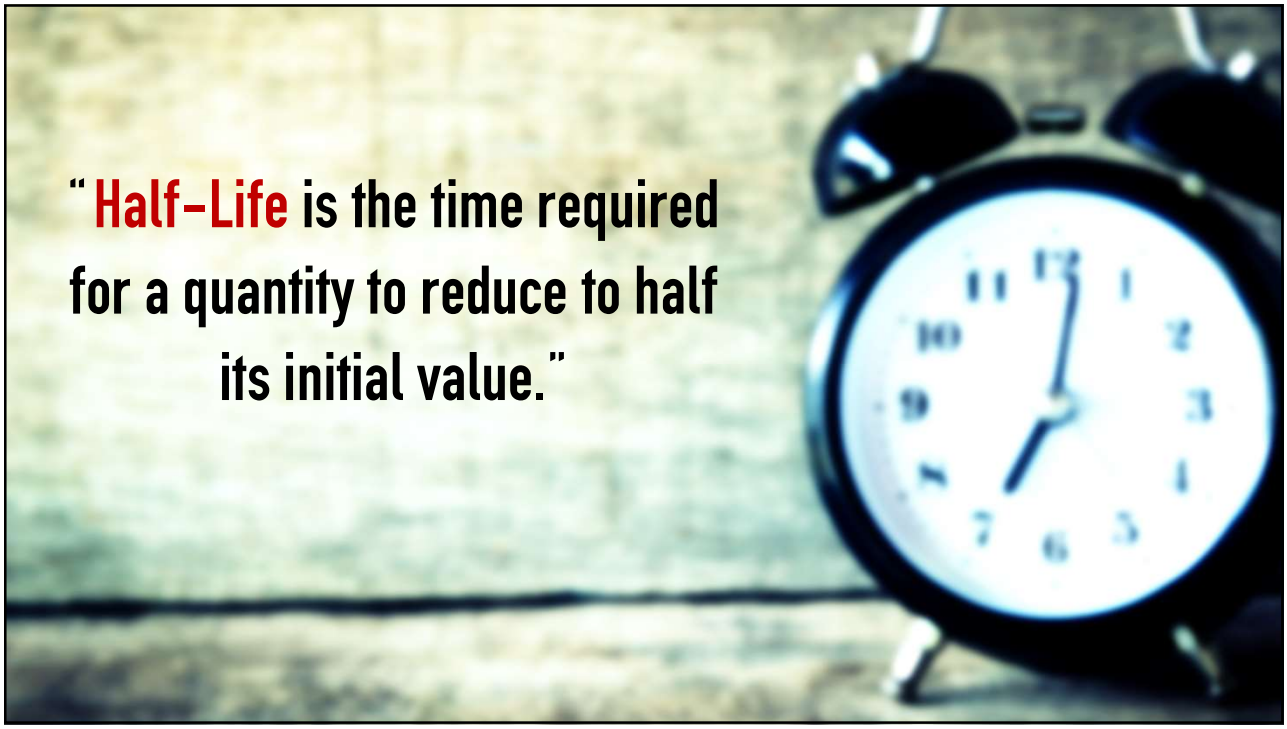
```
name: "Daniel  Verlaan"
adres: "Barend en Van Dorpweg 2"
email: "[redacted]"
phone: "0620[redacted]"
bsn: "766427840"
passport: "RT42L22Z2"
result: "Negatief"
test: "Antigeen sneltest"
```



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

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

Picking something to learn...

Twitter

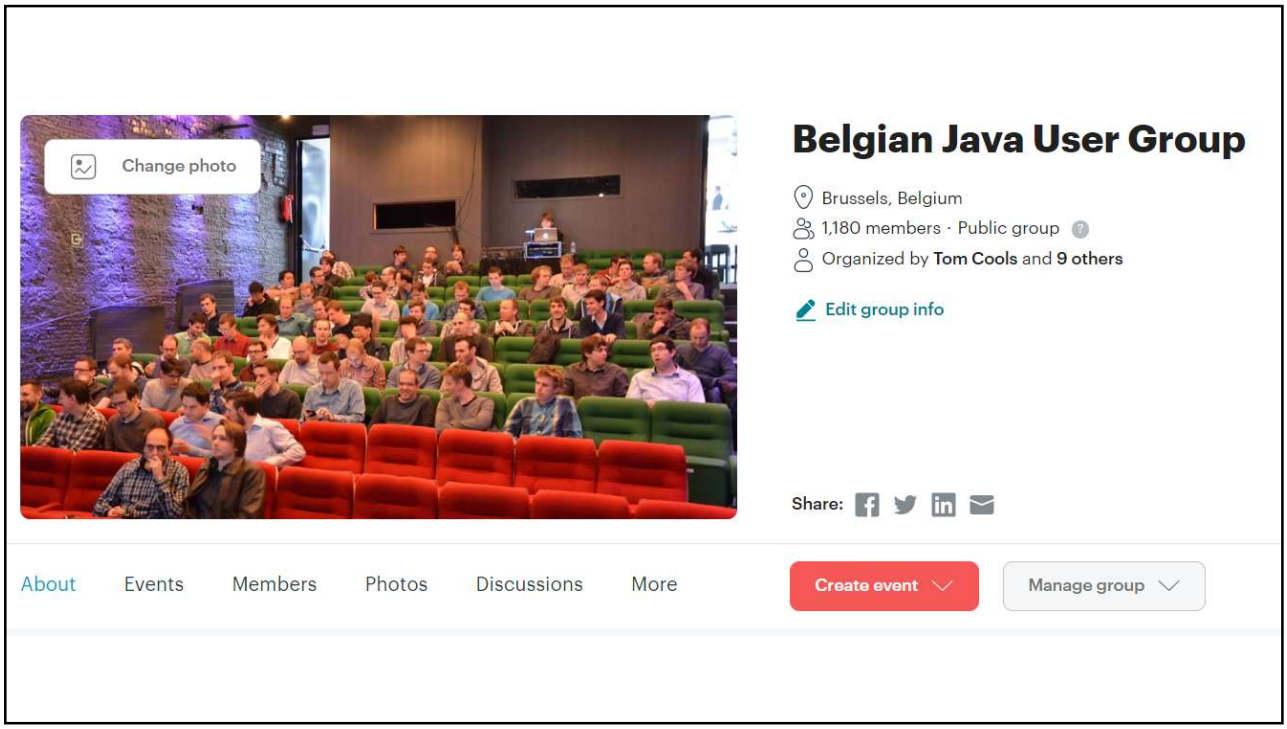
Meetups

Technology Radar

Conferences

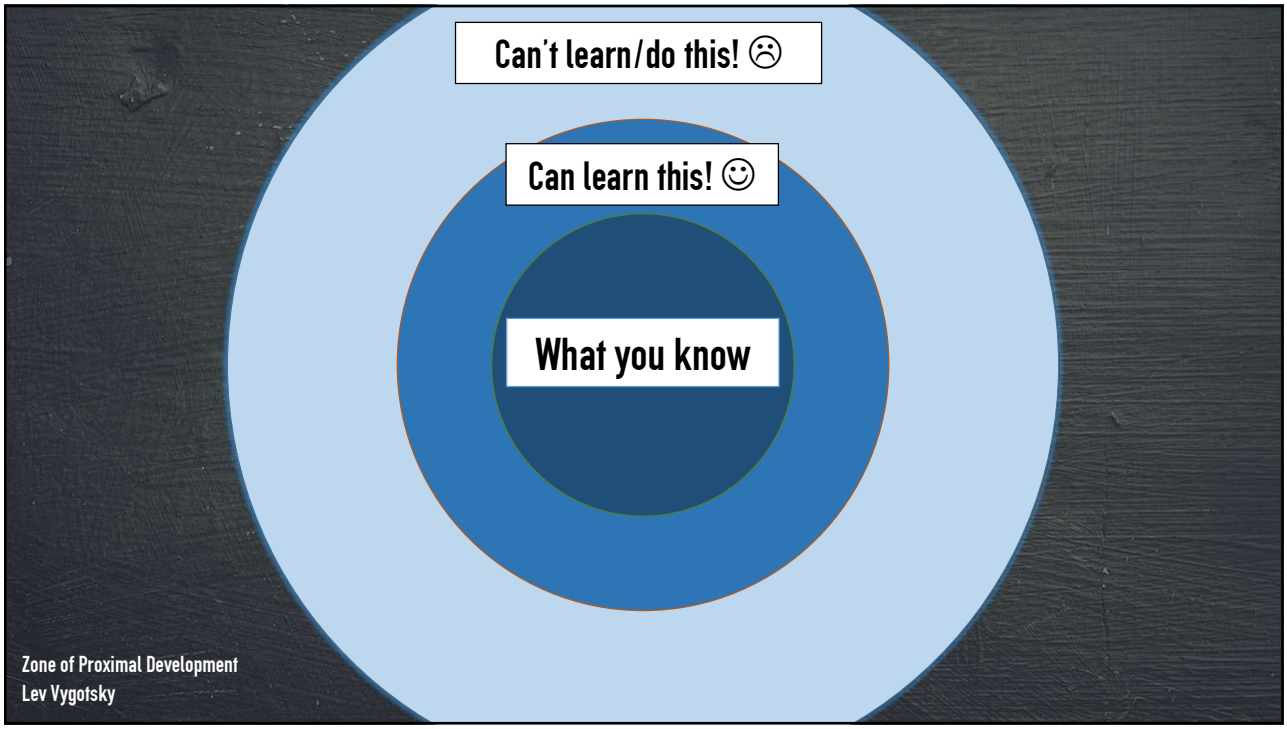
Blogs

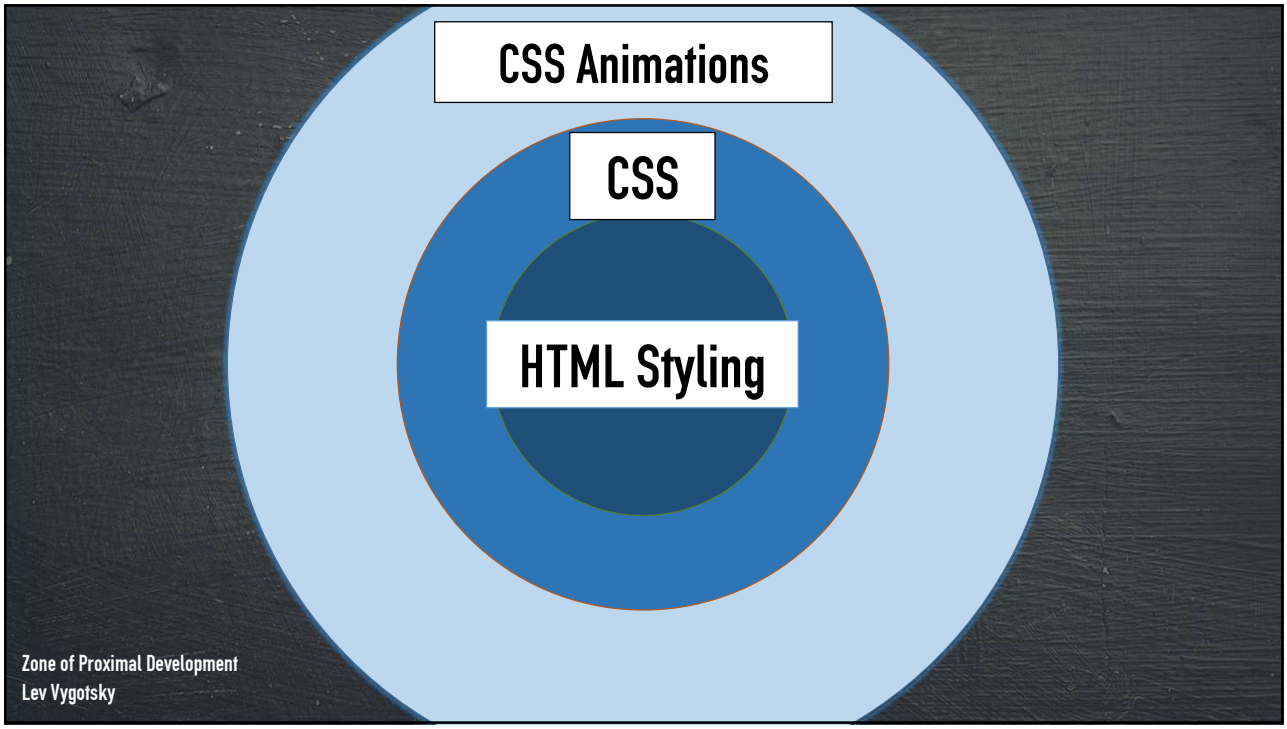
Collegues



"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


Can't learn/do this! ☹
Can learn this! ☺
What you know
Zone of Proximal Development
Lev Vygotsky


CSS Animations
CSS
HTML Styling
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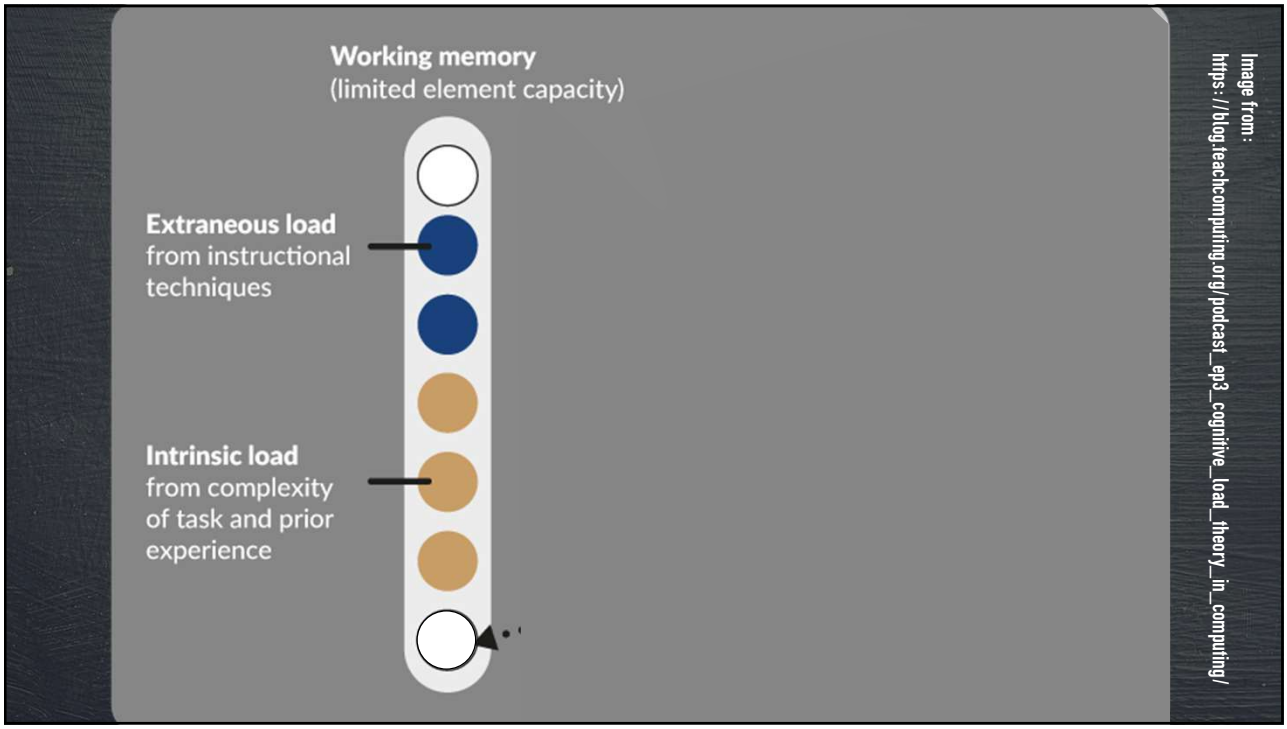


"Technical implementations decay faster than the concepts they are based on"

Concepts don't decay as fast

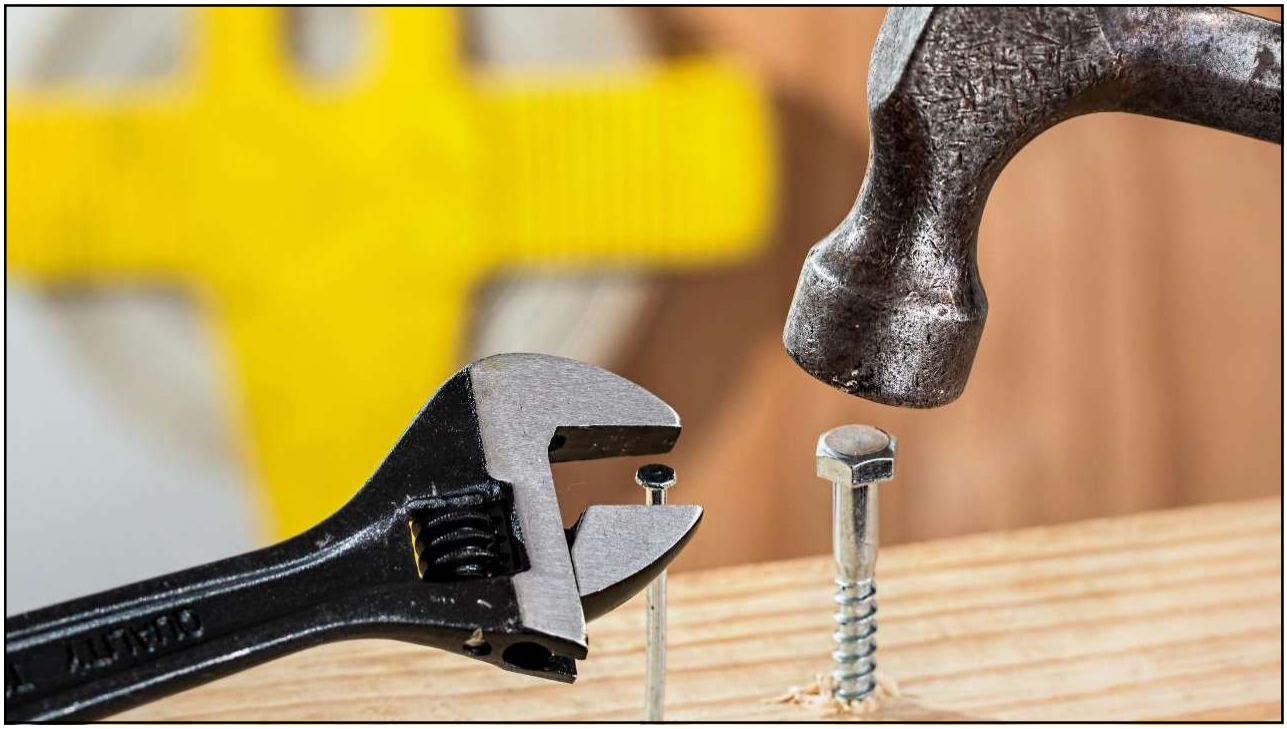
- Object Oriented Programming
- Functional Programming
- TDD
- DDD
- Design Patterns
- Clean Code

https://roadmap.sh/roadmaps

CODING COACH

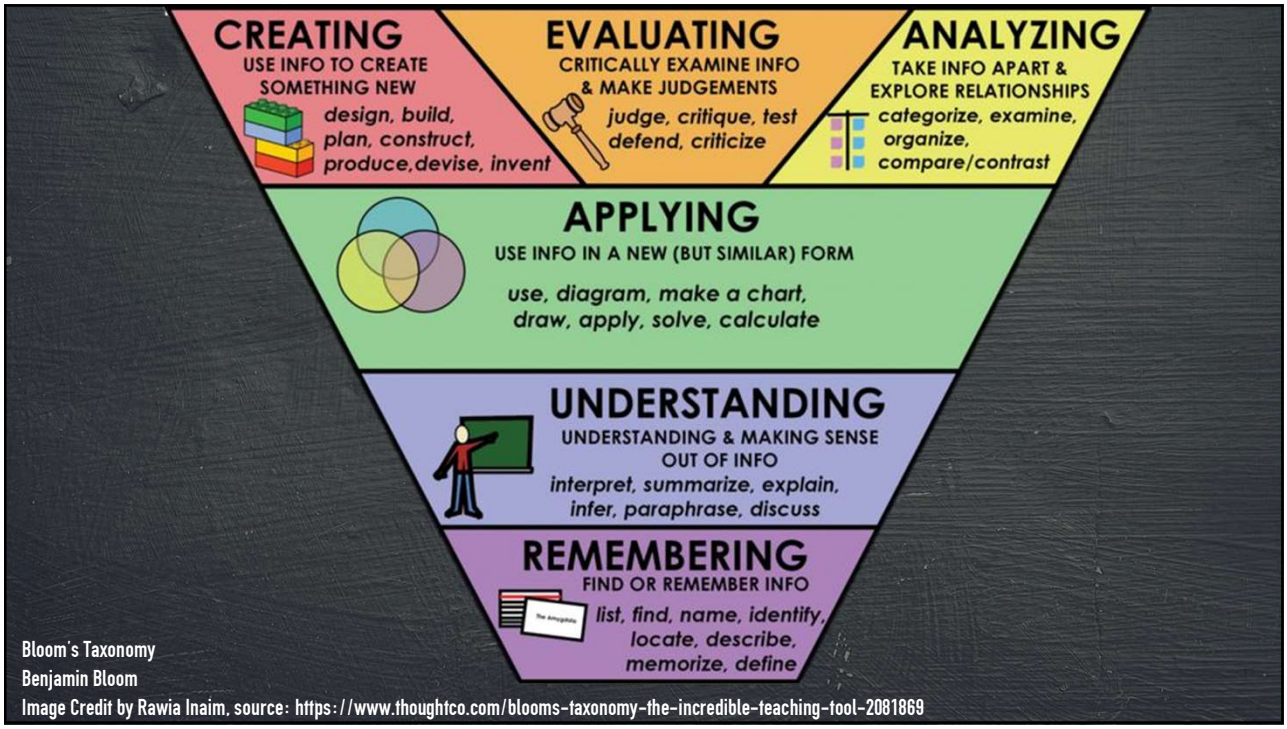
Connecting developers with mentors worldwide

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;



Bloom's Taxonomy
Benjamin Bloom
Image Credit by Rawia Inaim, source: https://www.thoughtco.com/blooms-taxonomy-the-incredible-teaching-tool-2081869

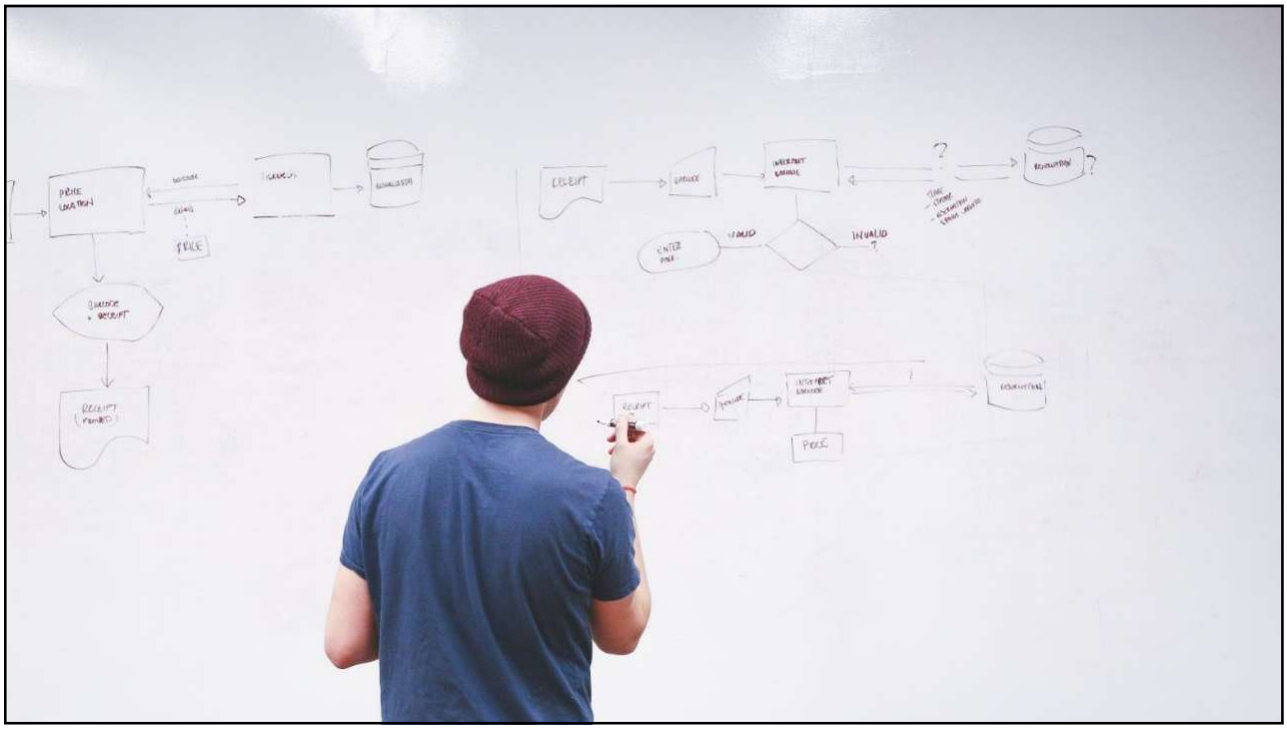
What is tinkering?

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

Limit
Yourself

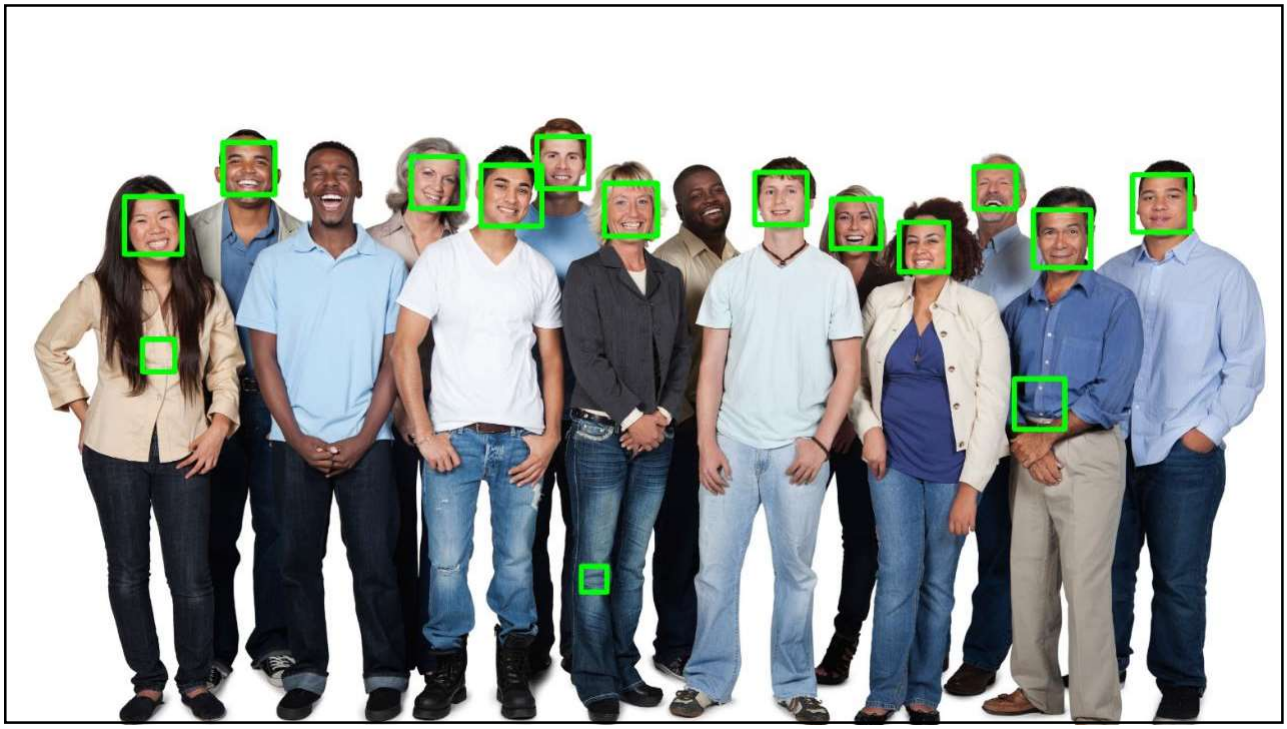
Limit
Yourself

Reflect



OpenCV

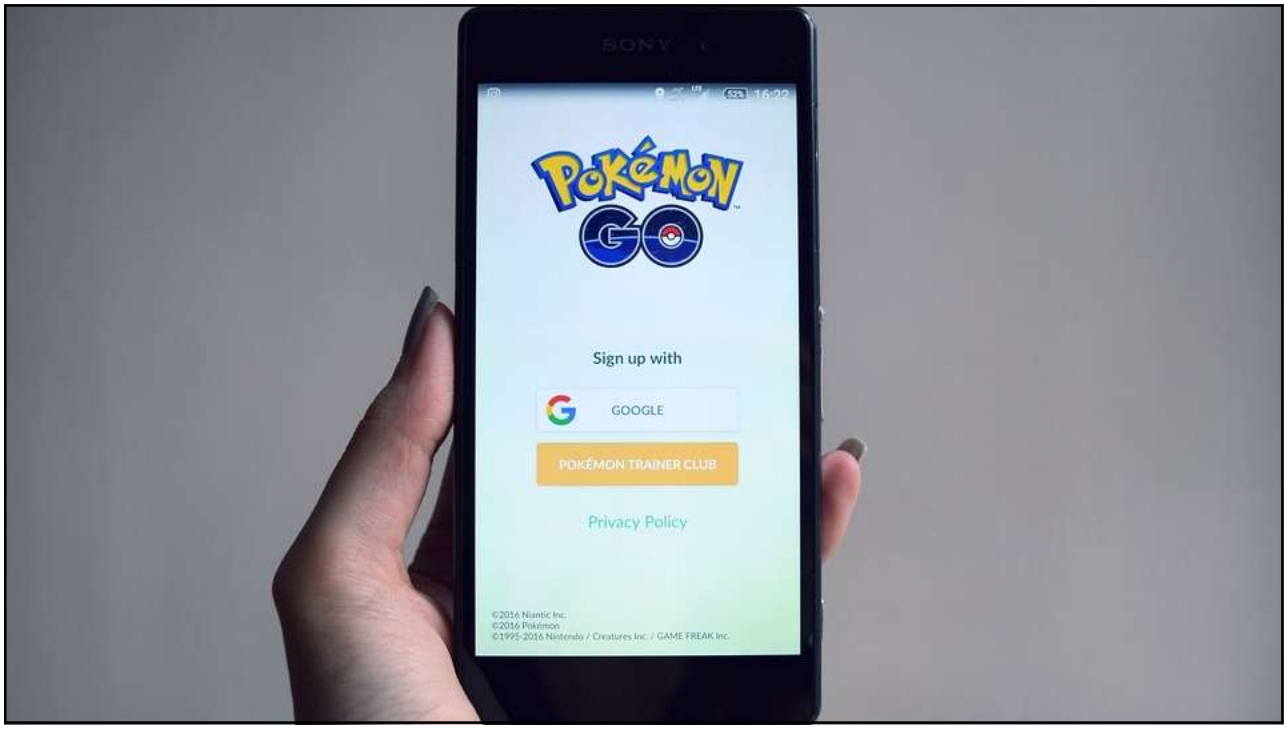
Microsoft Cognitive Services
Face API



Reflect

Be conscious about
your learning goals

Image: CERN – ATLAS calorimeter
http://cdsweb.cern.ch/record/910381#02



```
Method: POST
Body:□□□□□□□□□□S"□□
```

No JSON!?!

```
Ķo□-□□□□u□j□PC□□y□□u□MT□-□□□□□□□□□<r□□□l@□□u□U□~|□□□□
□'□□l□Ed □4<\i□JaW□□□□X□□□s□1`$□□□|□Rc□^;□□□K□□U□□□□
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□□D□□J□□□□□/)□N□U~□`>□□□□D□□q□a□□`□A□□X□F□J9□□l□Pg□□·
```
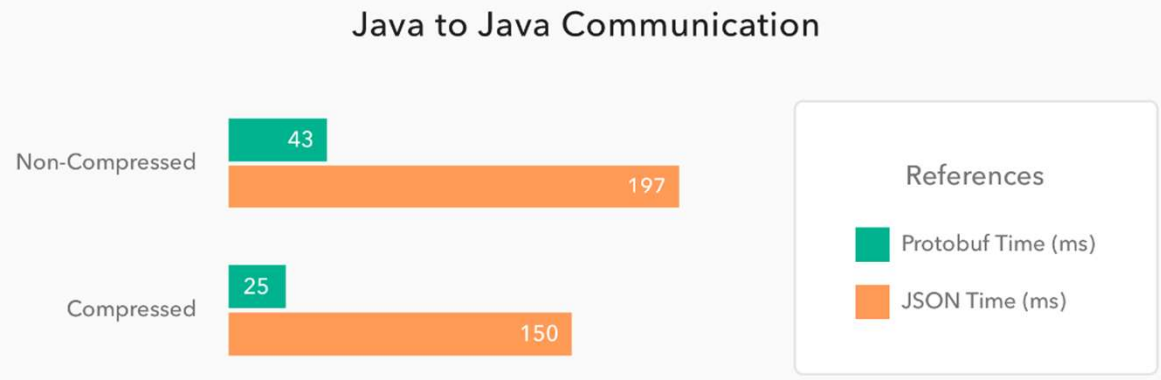

No, it's Protocol Buffers!

Source:
https://www.reddit.com/r/pokemongodev/comments/4trjum/pok%C3%A9mon_go_development_archive_works_in_progress/

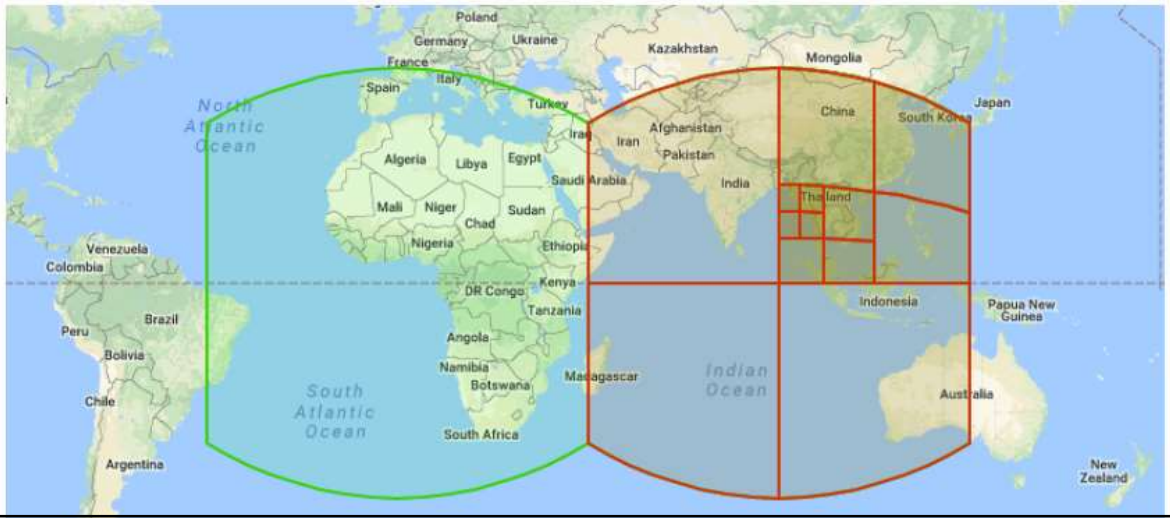


Source: https://auth0.com/blog/beating-json-performance-with-protobuf/

S2 Geometry

From: http://s2geometry.io/

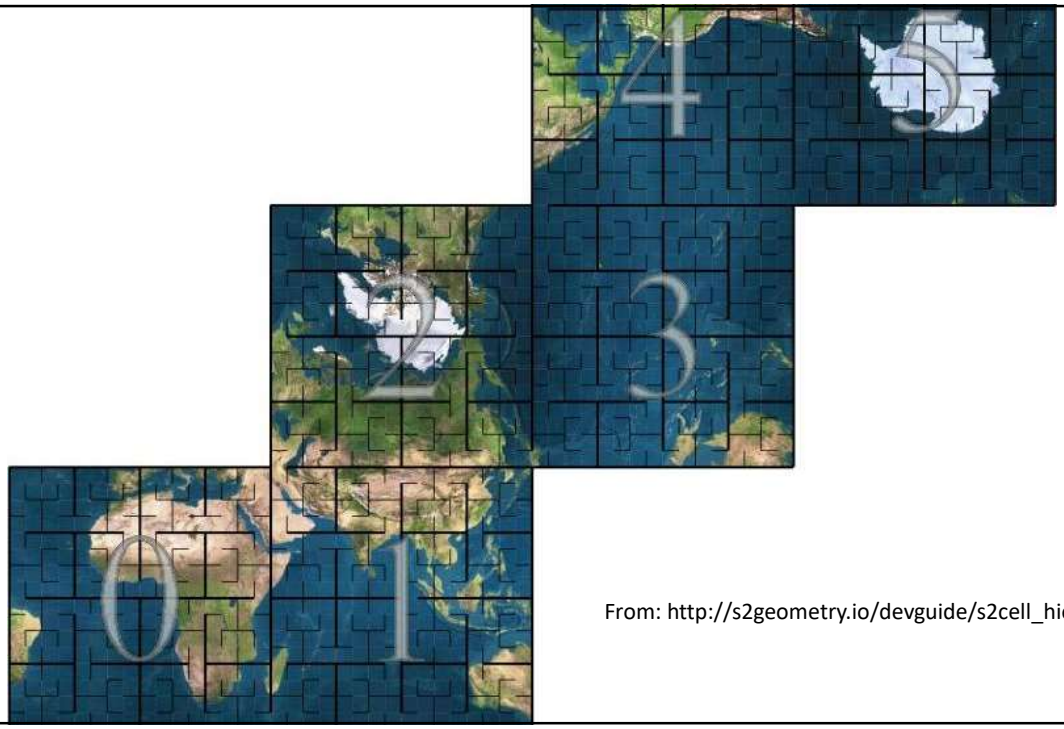
Welcome to the S2 Geometry Library!



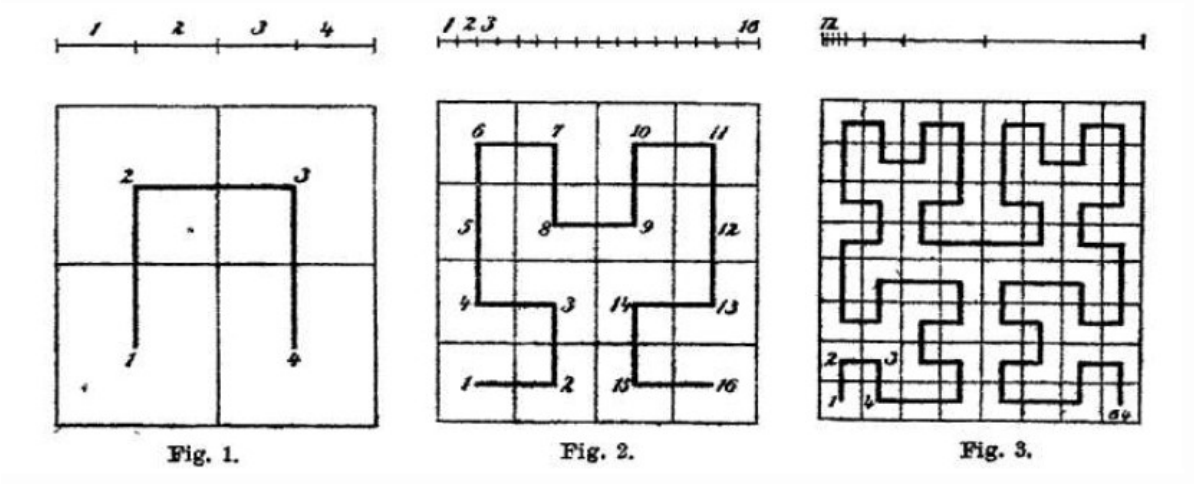
Location based on Latitude and Longitude

Our Office:

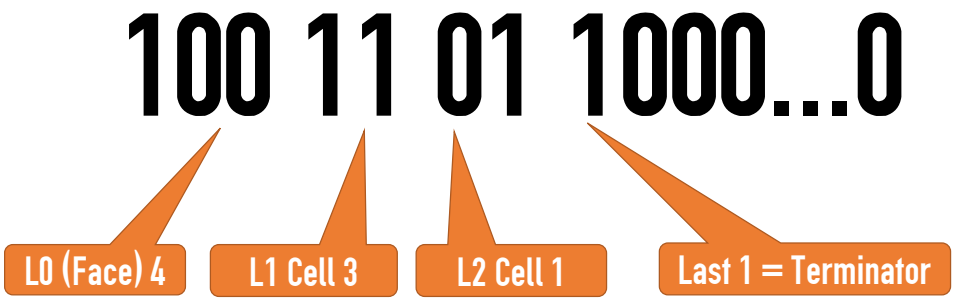
Latitude: 52.040953
Longitude: 5.534875



From: http://s2geometry.io/devguide/s2cell_hierarchy



From: http://s2geometry.io/devguide/s2cell_hierarchy



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 L0 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

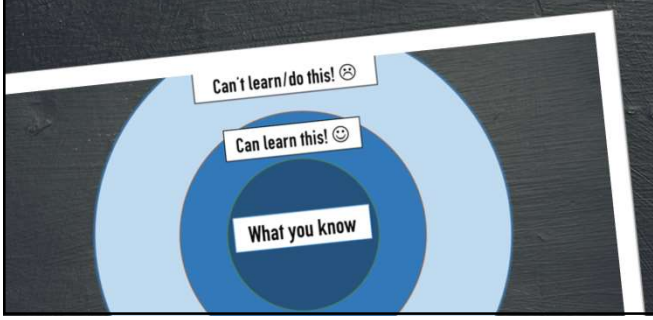
Character: "Chonk" by purr.in.ink
Twitter: @purrinink

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 collegues!

Work towards where you want to be in 3 years

Learning Through Tinkering

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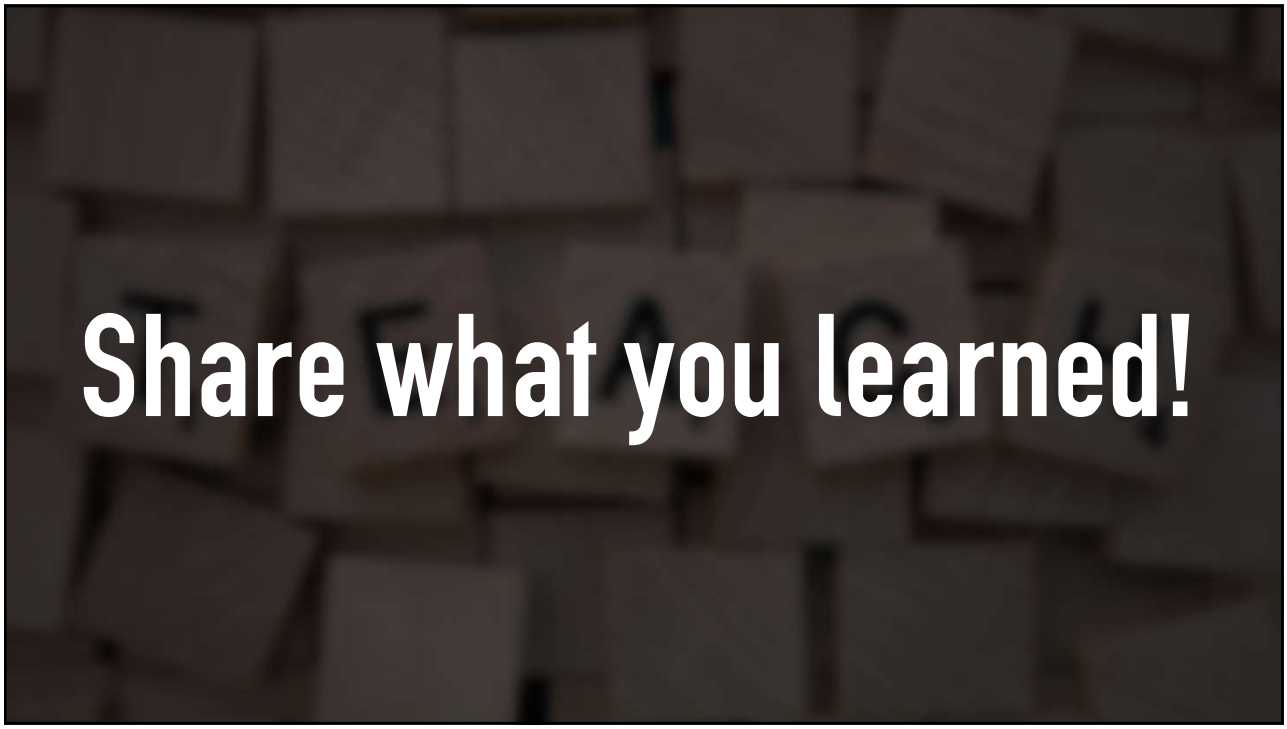
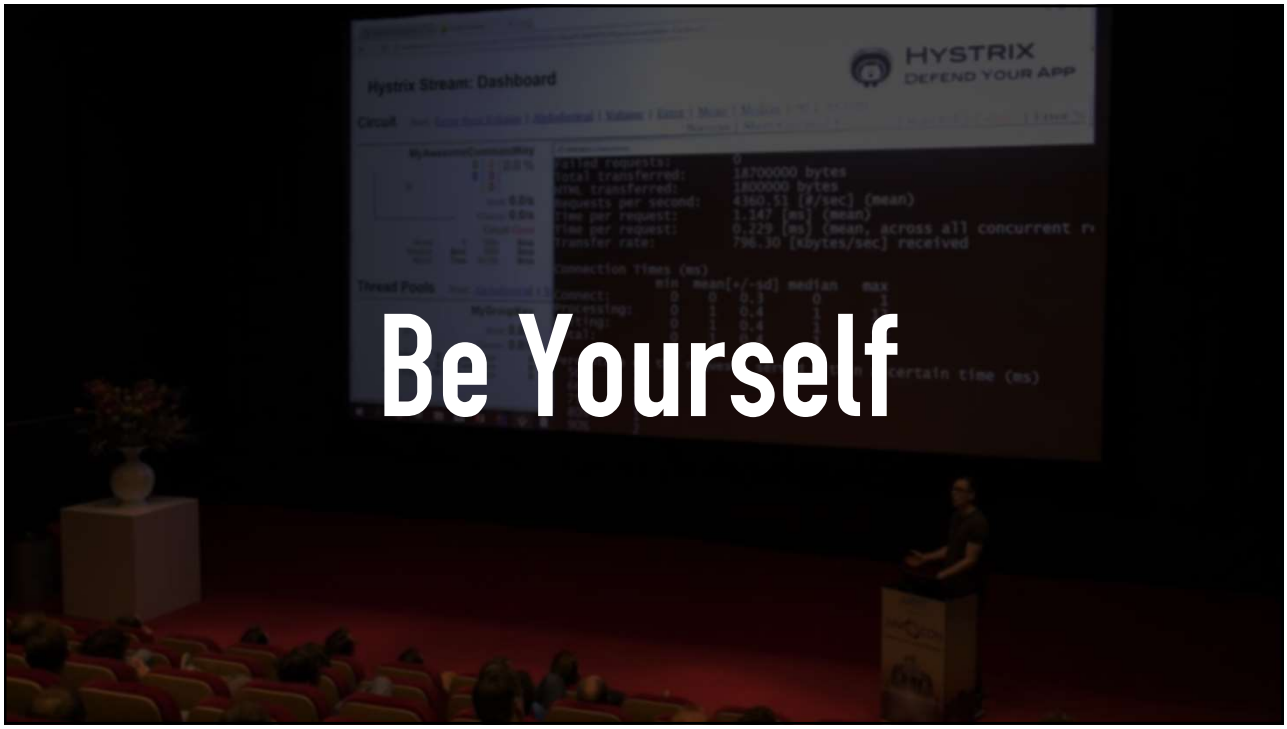
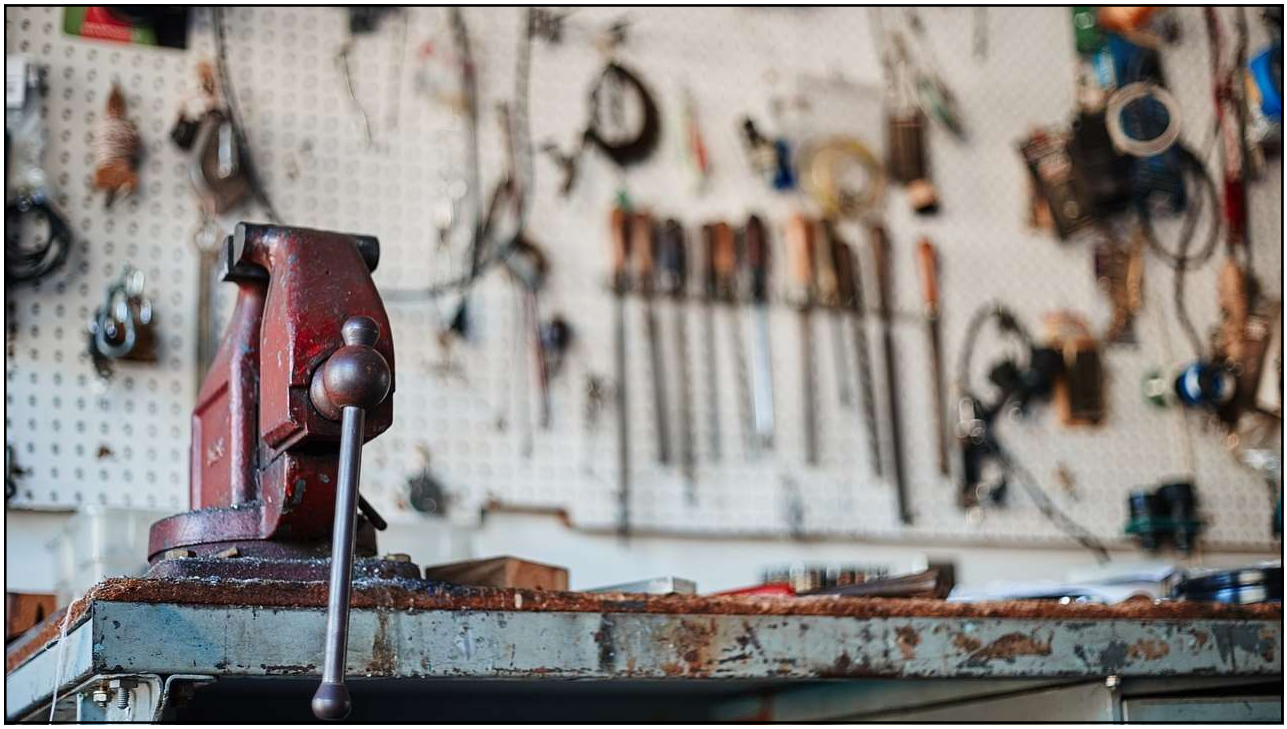
- Common mistakes while learning;
- Getting to most out of your new knowledge;


Share what you learned!

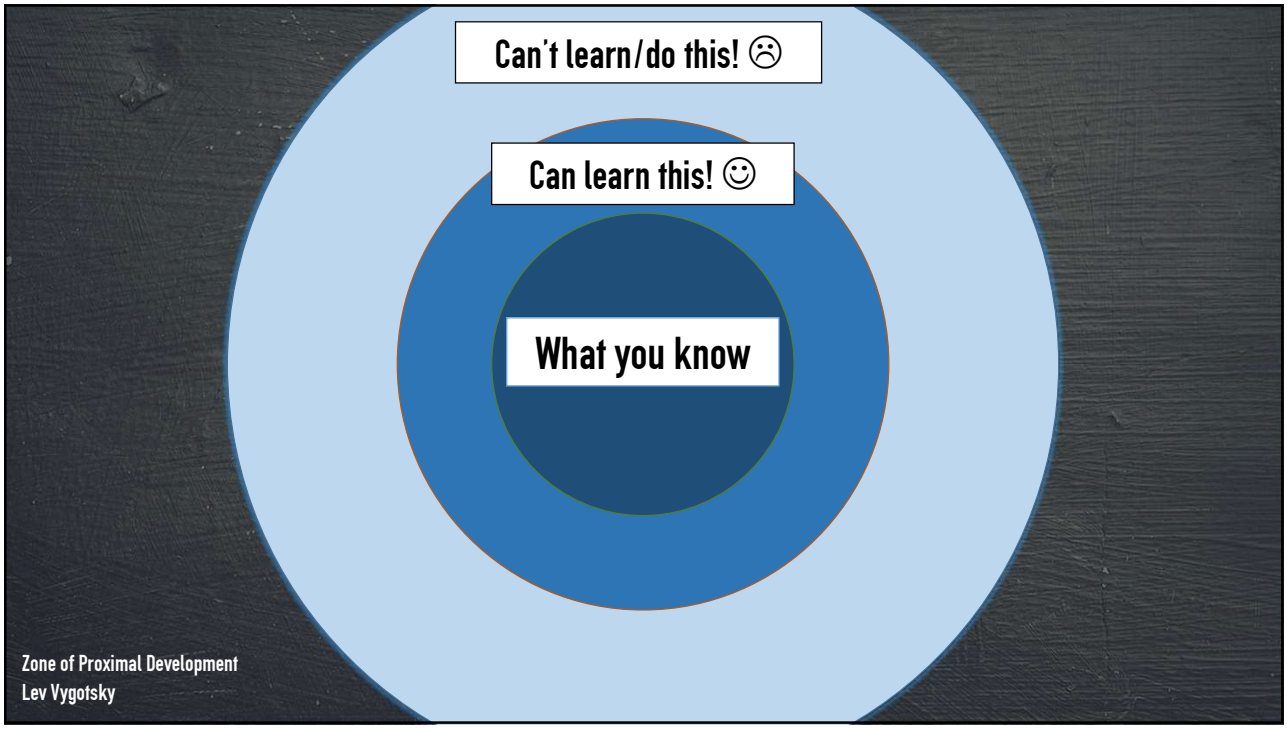
CODING
COACH
Connecting developers with mentors worldwide
FIND A MENTOR
Do Good


Hystrix Stream: Dashboard
HYSTRIX
DEFEND YOUR APP
Be Yourself

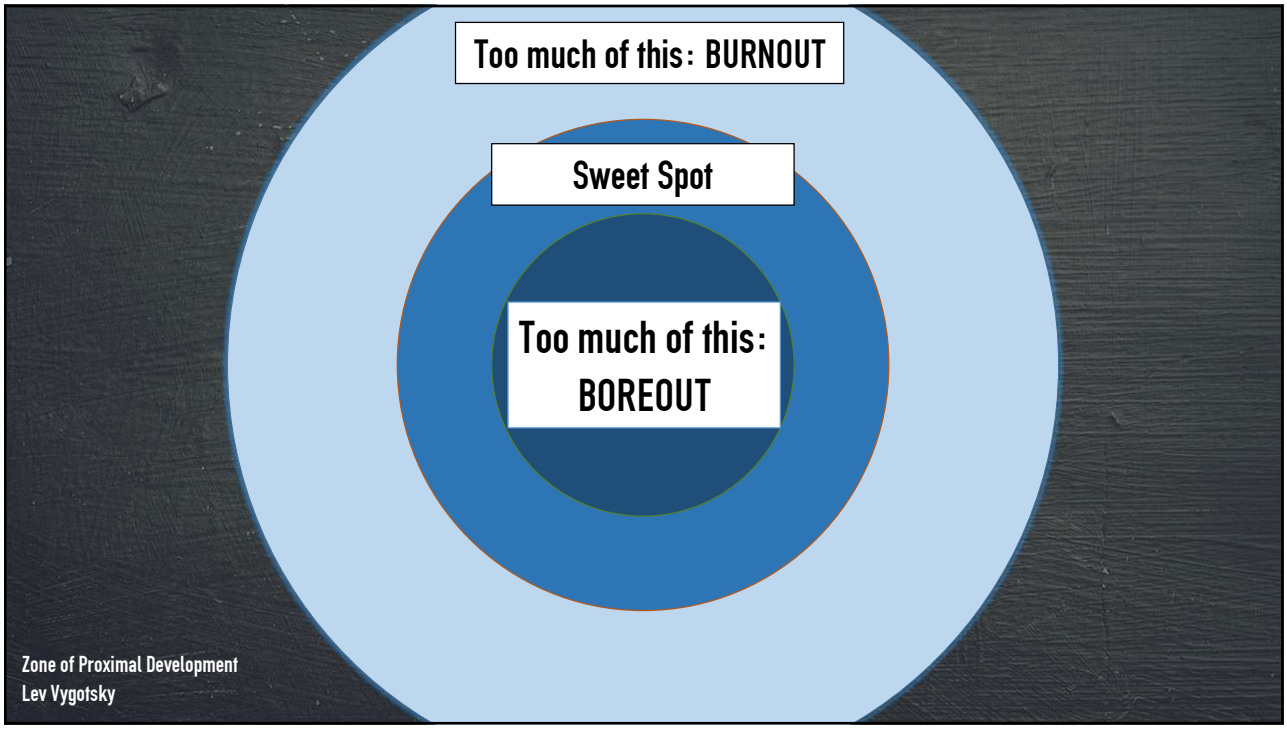


"Who is responsible to update and maintain your knowledge and skills?"

You Are



Zone of Proximal Development
Lev Vygotsky



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;

Choose One Topic You've Seen
GO TINKER WITH IT
AND SHARE WHAT YOU LEARNED!

Content: tomcools.be/soon-☺
Twitter: @TCoolsIT
InfoSupport
Solid Innovator

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