



The Effective 🚀 Developer

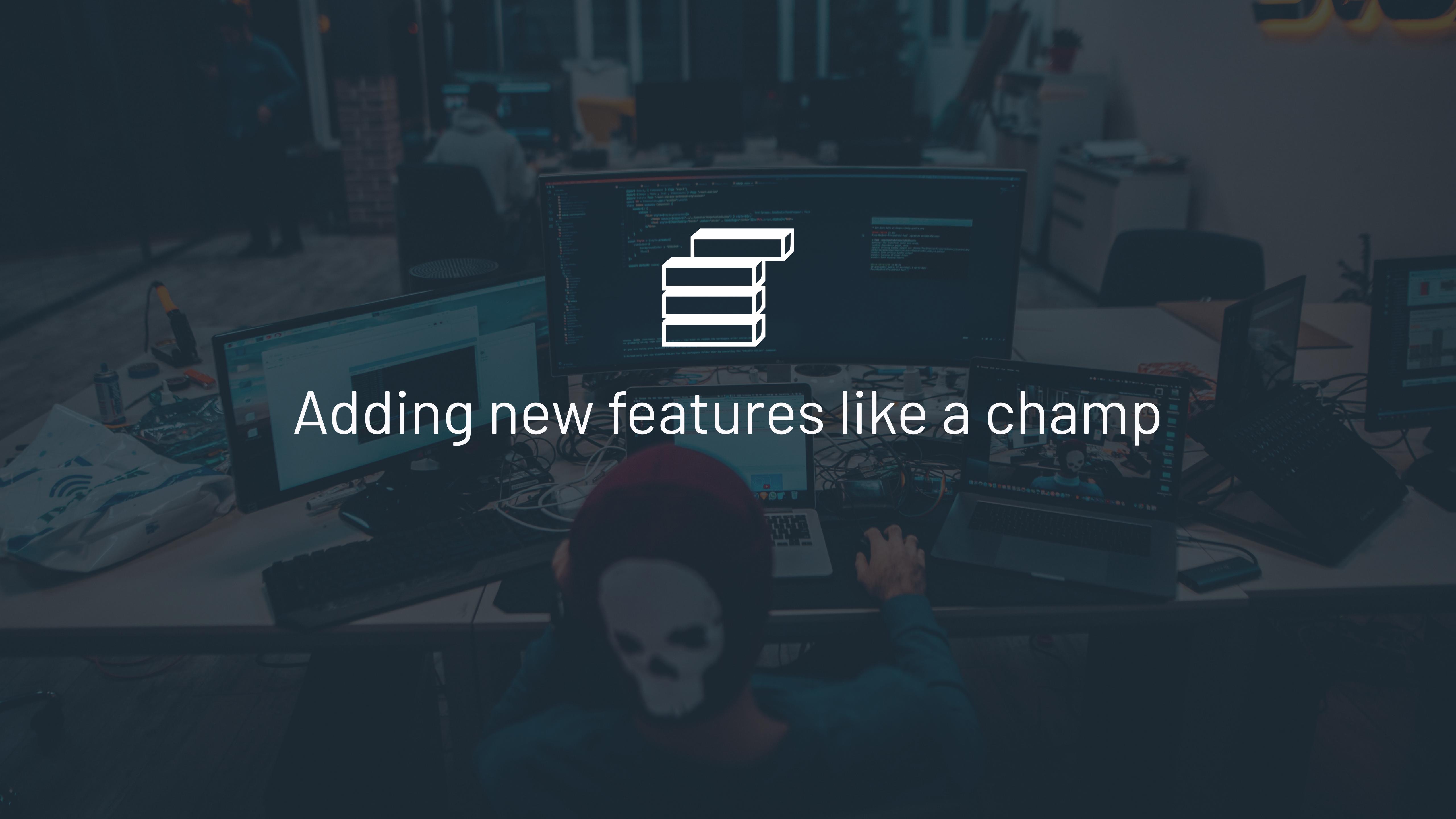
Work Smarter 💡, Not Harder 💪



Writes smart code

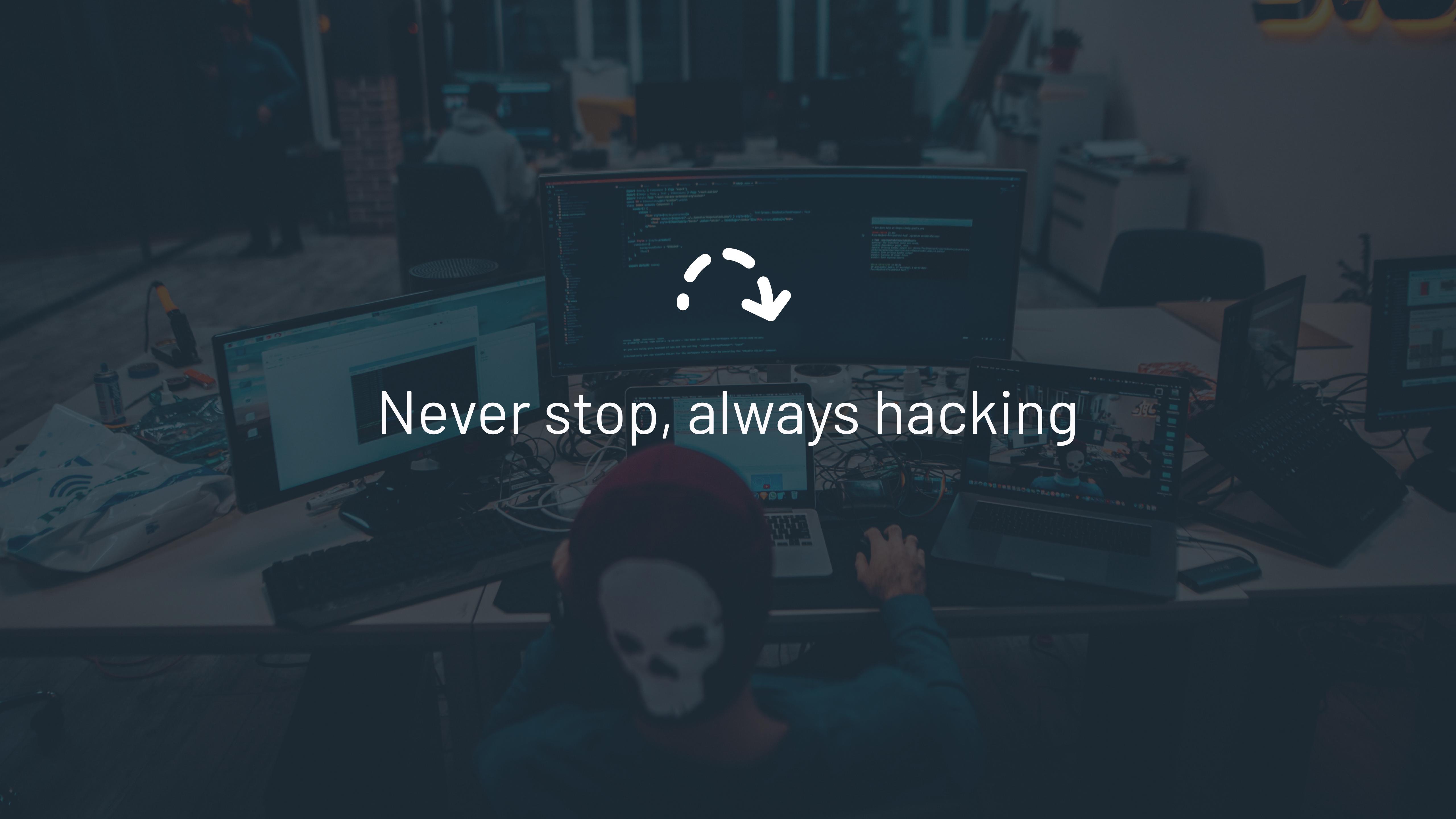


Fixing bugs immediately



Adding new features like a champ





Never stop, always hacking





Live and breathe code

That was me in 2003

Super effective

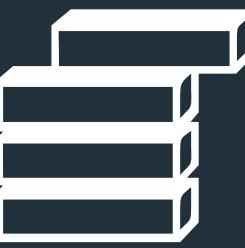
Super effective, really?



Smart code



Fixing all the bugs



Adding features



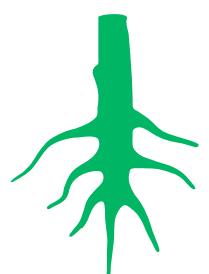
Never stop



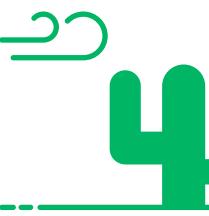
Live and breathe code



Don't touch



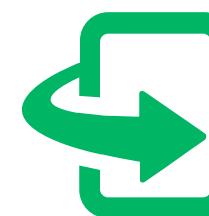
Not root problem



Never used



Context switching

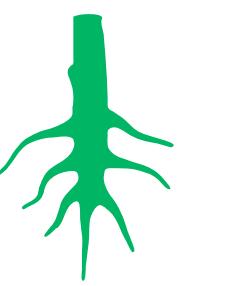


Broader view

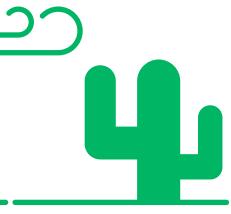
Efficient



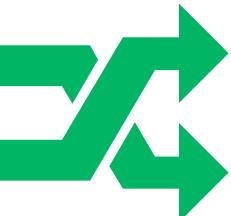
Don't touch



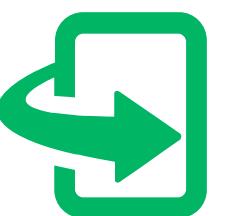
Not root problem



Never used



Context switching



Broader view

Efficient

Effective?

Harder

Smarter

The Effective 🚀 Developer

Work Smarter 💡, Not Harder 💪

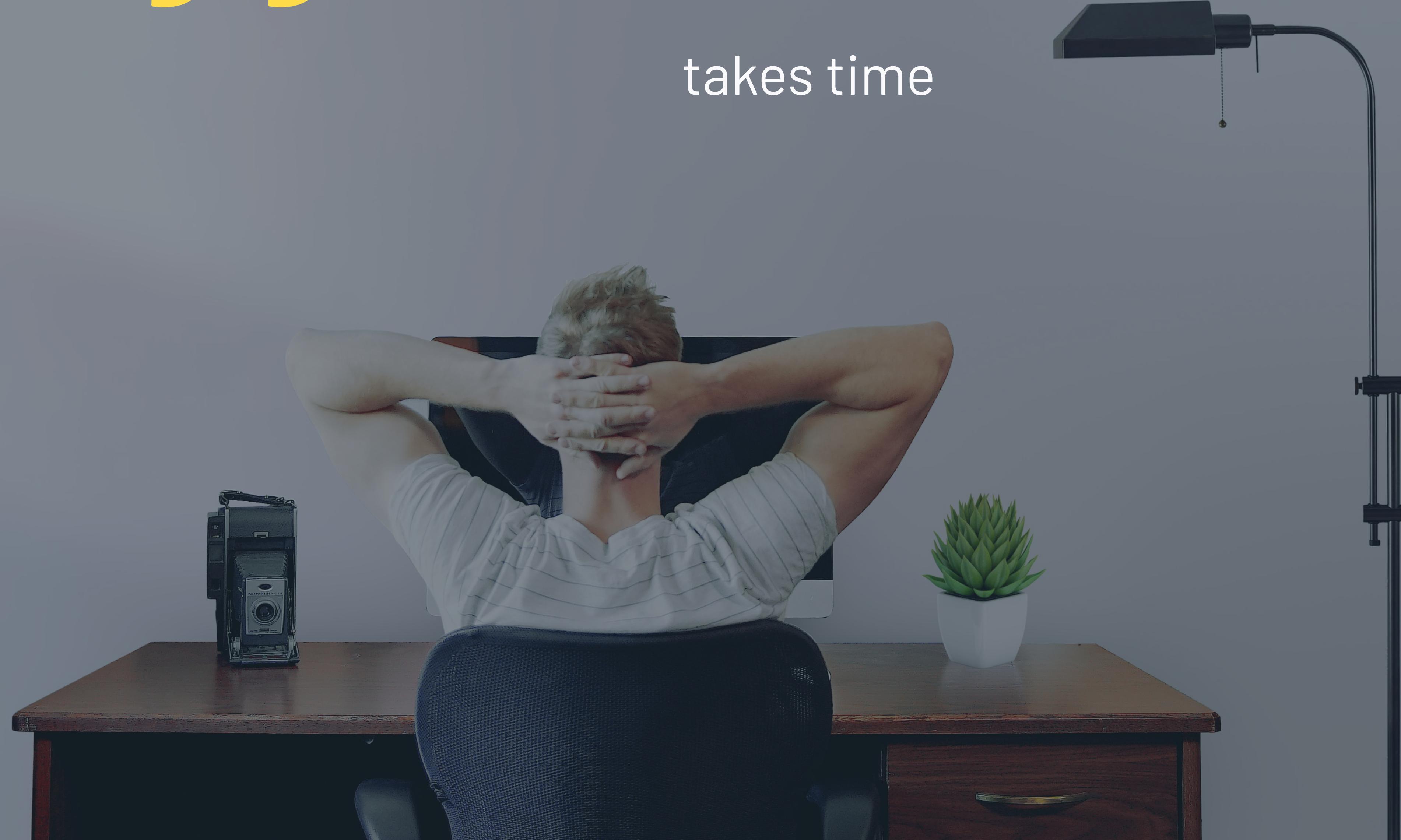


Team Code

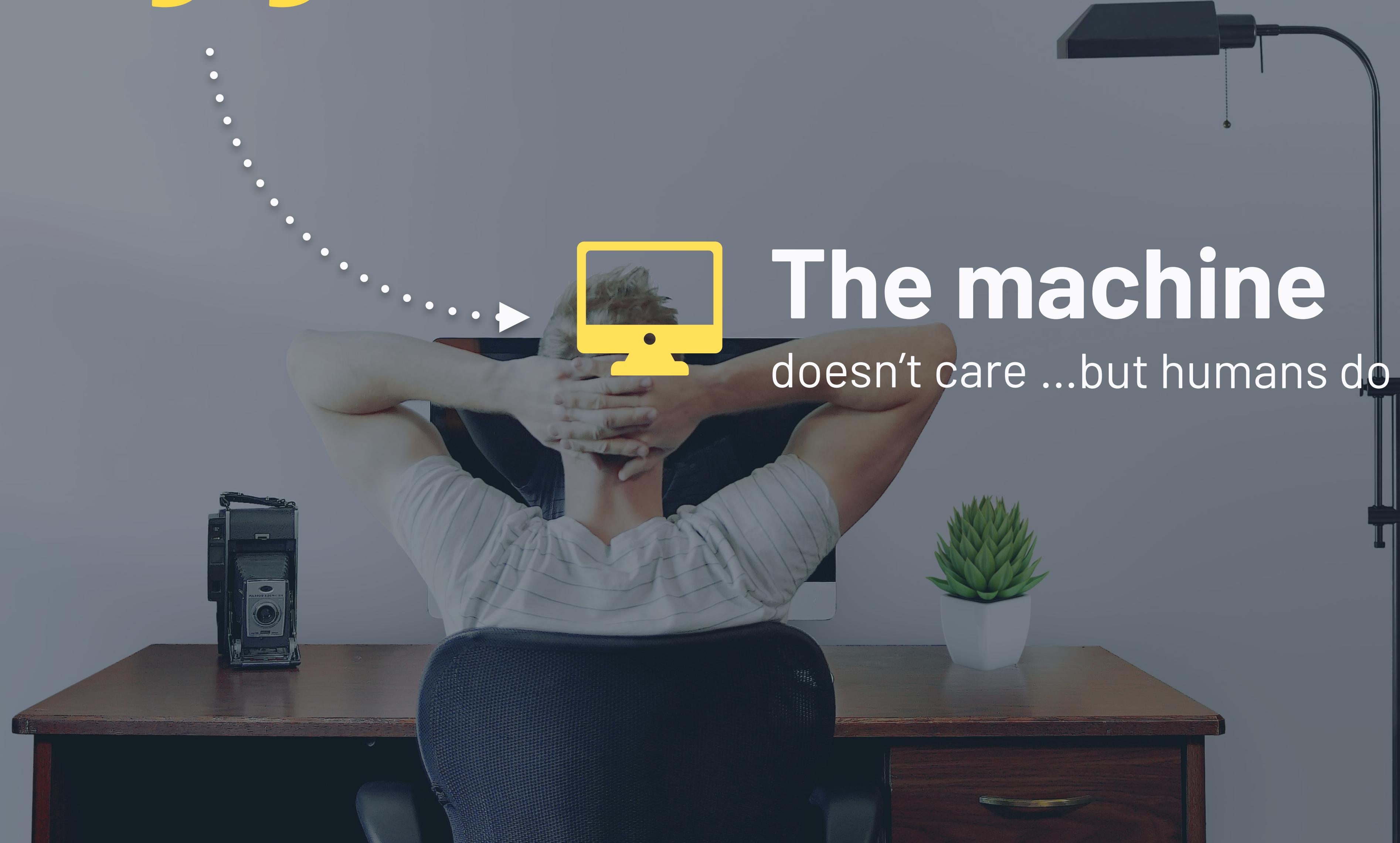
To be more effective

Writing good code

takes time



Writing good code



The machine
doesn't care ...but humans do

Writing good code

Read code
more often than
write code



```
class clc {  
    public static final double RATES_OF_I_TAX=10;  
    private static final double RATES_OF_H_INS= 1.5;  
protected static final double RATES_OF_S_INS= 7;  
public static void main(String args[]){  
int grosssalary=1000;  
int net=clc.calc(grosssalary);  
clc.printincomeinformation(grosssalary, net);  
}  
public static int calc (int salary){  
    double deductiona= salary*(RATES_OF_I_TAX/ 100);  
    double deductionb=salary*(RATES_OF_H_INS/100);  
  
    double deductionc = salary * (RATES_OF_S_INS/ 100);  
    int tmp=salary -(int)deductiona-(int)deductionb-(int)deductionc;  
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{  
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    {  
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I don't understand it 😱



► ohh.... I wrote it 🤦



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}
```



```
class Salary {  
  
    private static final double RATES_OF_INCOME_TAX = 10;  
    private static final double RATES_OF_HEALTH_INSURANCE = 1.5;  
    private static final double RATES_OF_SOCIAL_INSURANCE = 7;  
  
    public static void main(String args[]) {  
  
        int grossSalary = 1000;  
        int netIncome = Salary.calc(grossSalary);  
  
        Salary.printIncomeInformation(grossSalary, netIncome);  
    }  
  
    private static int calc(int salary) {  
  
        double deductionIncomeTax = salary * (RATES_OF_INCOME_TAX / 100);  
        double deductionHealthInsurance = salary * (RATES_OF_HEALTH_INSURANCE / 100);  
        double deductionSocialInsurance = salary * (RATES_OF_SOCIAL_INSURANCE / 100);  
  
        int reducedSalery = salary - (int) deductionIncomeTax - (int) deductionHealthInsurance - (int) deductionSocialInsurance;  
  
        return reducedSalery;  
    }  
  
    private static void printIncomeInformation(int grossSalary, int netIncome) {  
  
        System.out.println("Gross income: " + grossSalary + " dollar\nNet income: " + netIncome + " dollar\n");  
  
        if (grossSalary > 3000) {  
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“

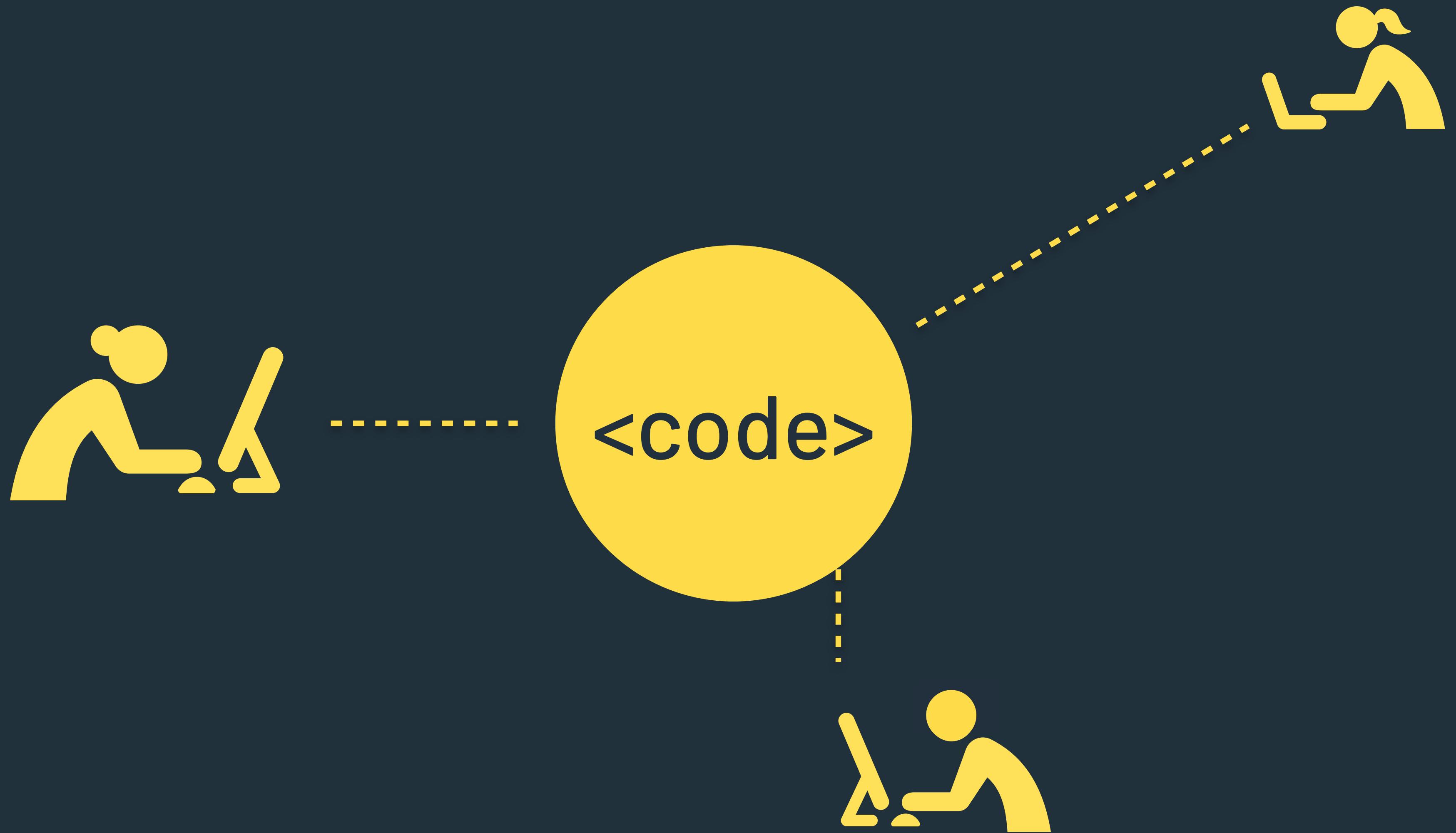
The huamn mnid deos not raed
ervey lteter by istlef, but the
wrod as a wlohe.



Clever
code

Show
off

Simplicity over Cleverness



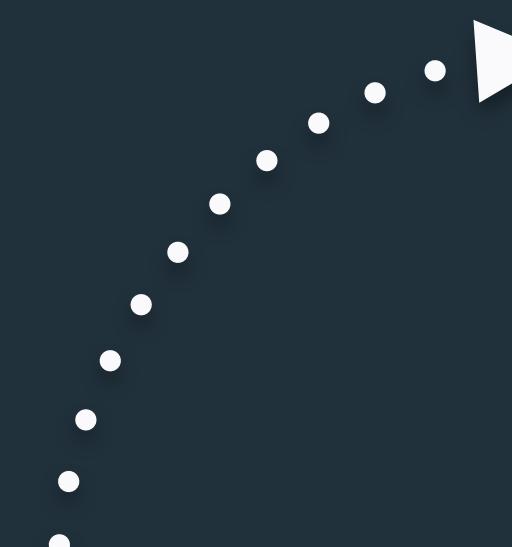
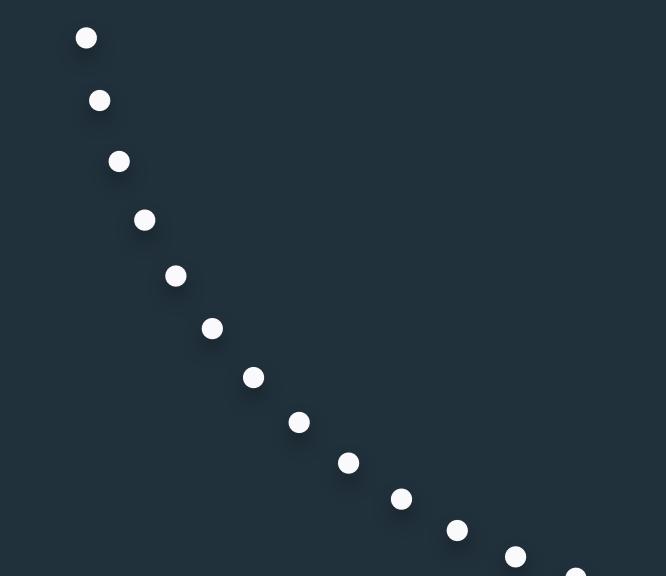


Is your code simple enough?

► Junior Devs

Make the canary test

Invest time in **code reviews**



► ensuring consistent code quality

► to inspire jr. devs



code reviews
done right

Seek to understand



Seek to understand

Criticise ideas, not people



Seek to understand

Don't rant, make suggestions

Criticise ideas, not people



Seek to understand

Don't rant, make suggestions

Don't spoon feed

Criticise ideas, not people



Seek to understand

Don't rant, make suggestions

Comment on positive things

Don't spoon feed

Criticise ideas, not people



Seek to understand

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Learn

To be more effective



Great idea

Wow

Cool



New
technology



I'll also **survive** microservices,
and serverless hype.

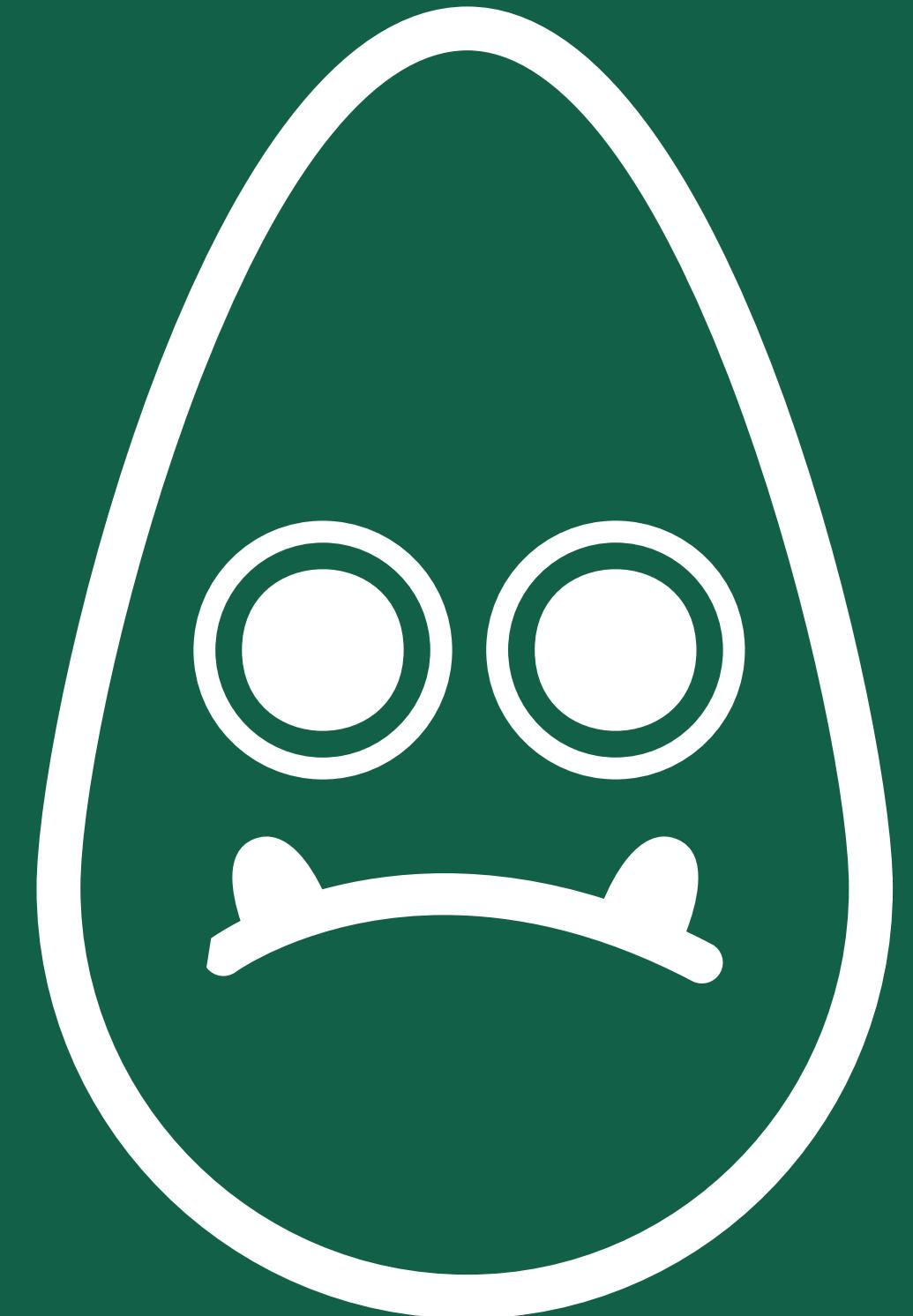
Really, a **new** front end
framework, again?

Code Reviews? Not for me

Scrum boards? I already
know what's **important**.



Grumpy Developer



Grumpy Developer

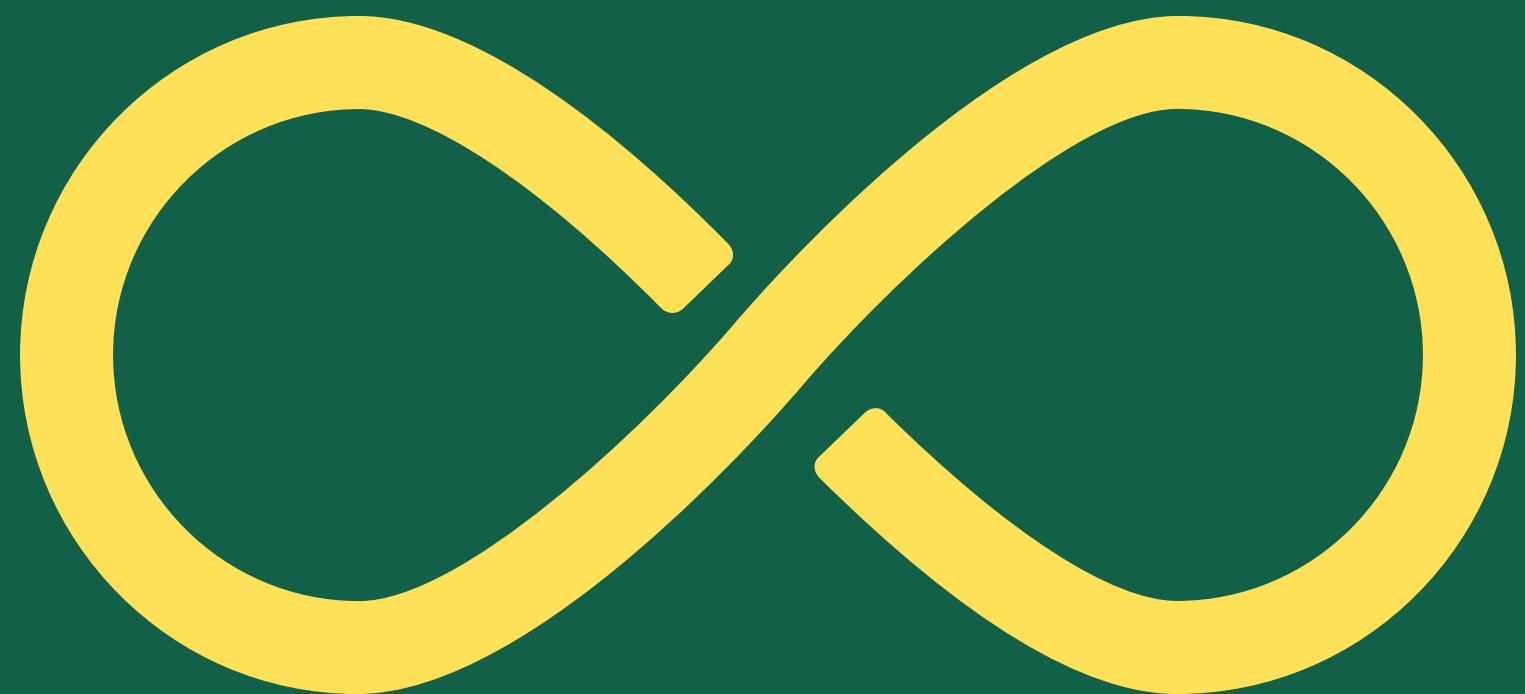


I know how to
develop software ...now



Do you think
software development
is changing ?

Continuous learning





Podcasts Audiobooks





Meetups

IMPOSTER SYNDROME IS THE
INABILITY TO ACCEPT ONES
OWN ACCOMPLISHMENT AND
THE CONSTANT FEAR OF BEING
EXPOSED AS A FRAUD.

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Book club



Video Fridays



But why learn?

All **answers** are on
 stackoverflow

1

st

Try and solve
the problem

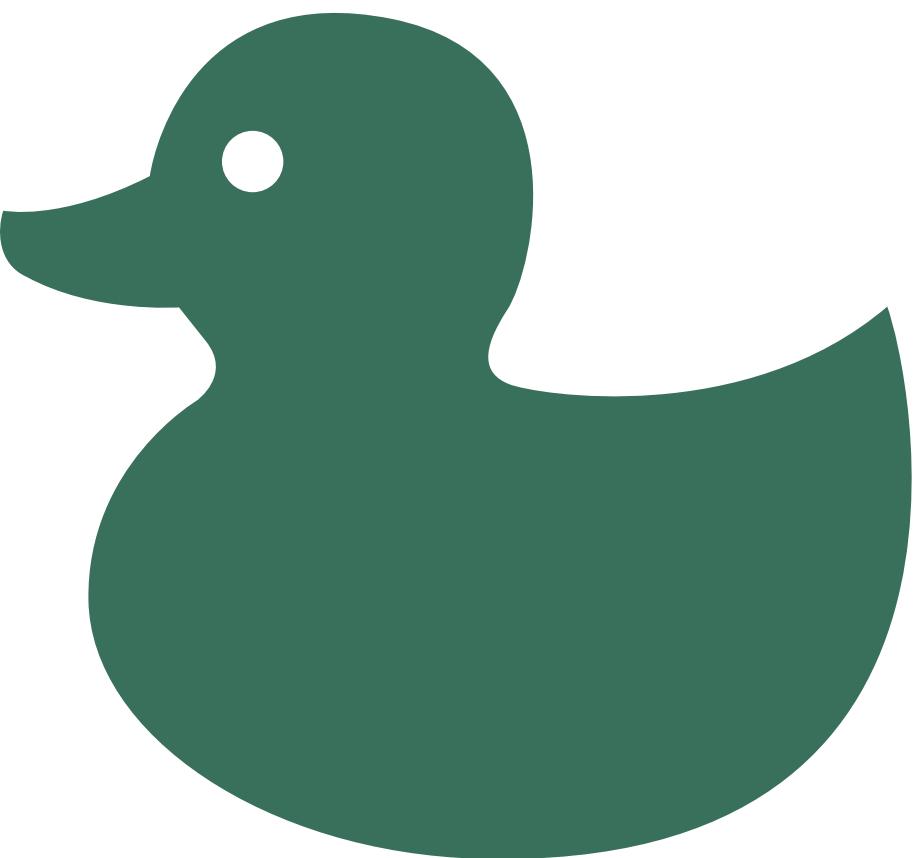


2nd

Ask for help

2nd

yourself
Ask for help



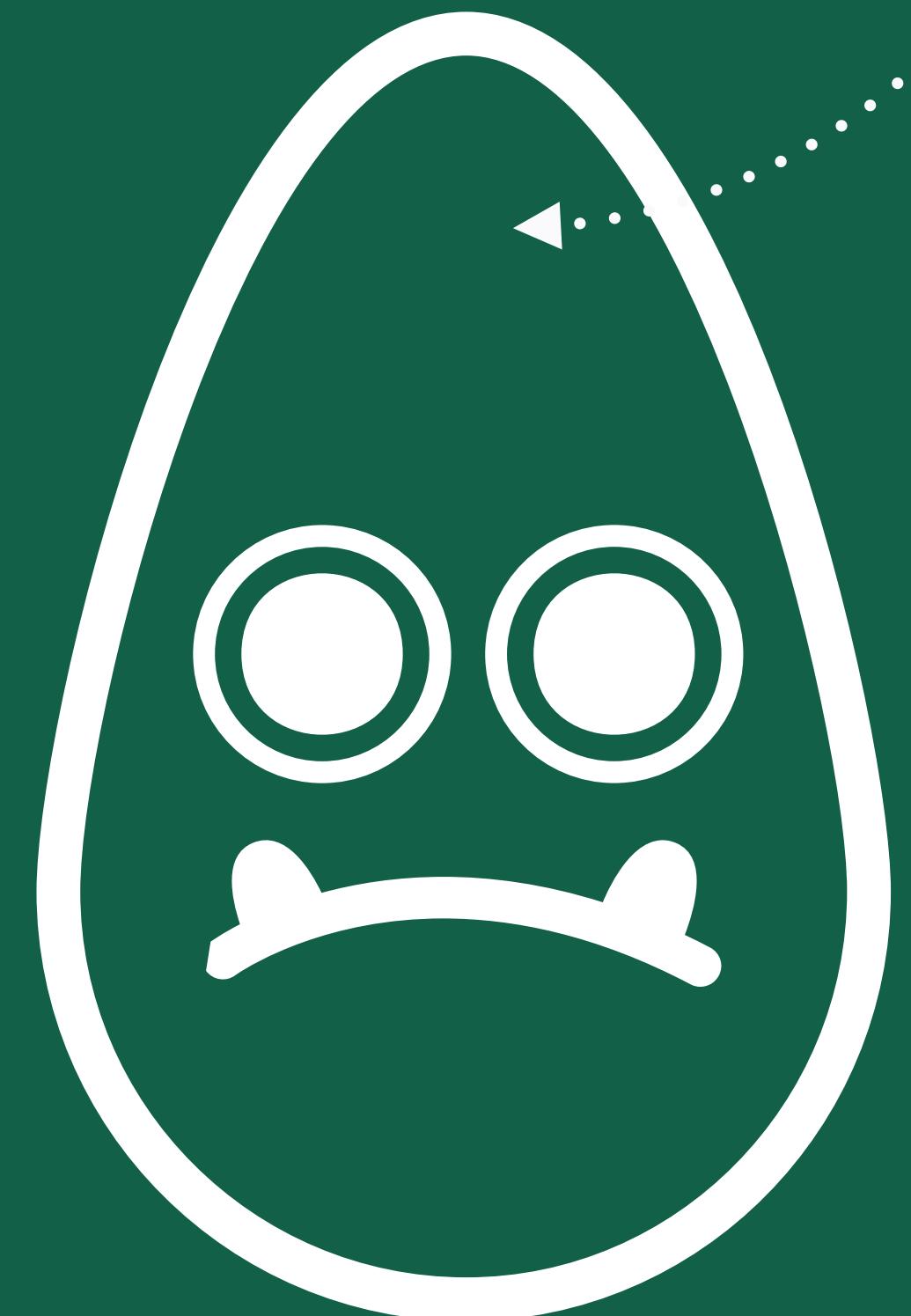
3
rd

Ask for help



I don't know

Learn



make new connections

Learn



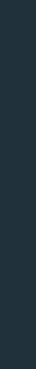
get rid of some connections

to unlearn

Experiment

Learn

Unlearn





Experiment

To be more effective



This might not be the best idea

It's all on the
board*

*The rest is in Jira

Known unknowns

Known unknowns

Better solutions?

Known unknowns

Better solutions?

New technology?

Known unknowns

Don't be shy - just try

Better solutions?

New technology?

Missing opportunities?

Coding sessions

1.5 hour /week

1.5 h Coding

1.5 h Improving

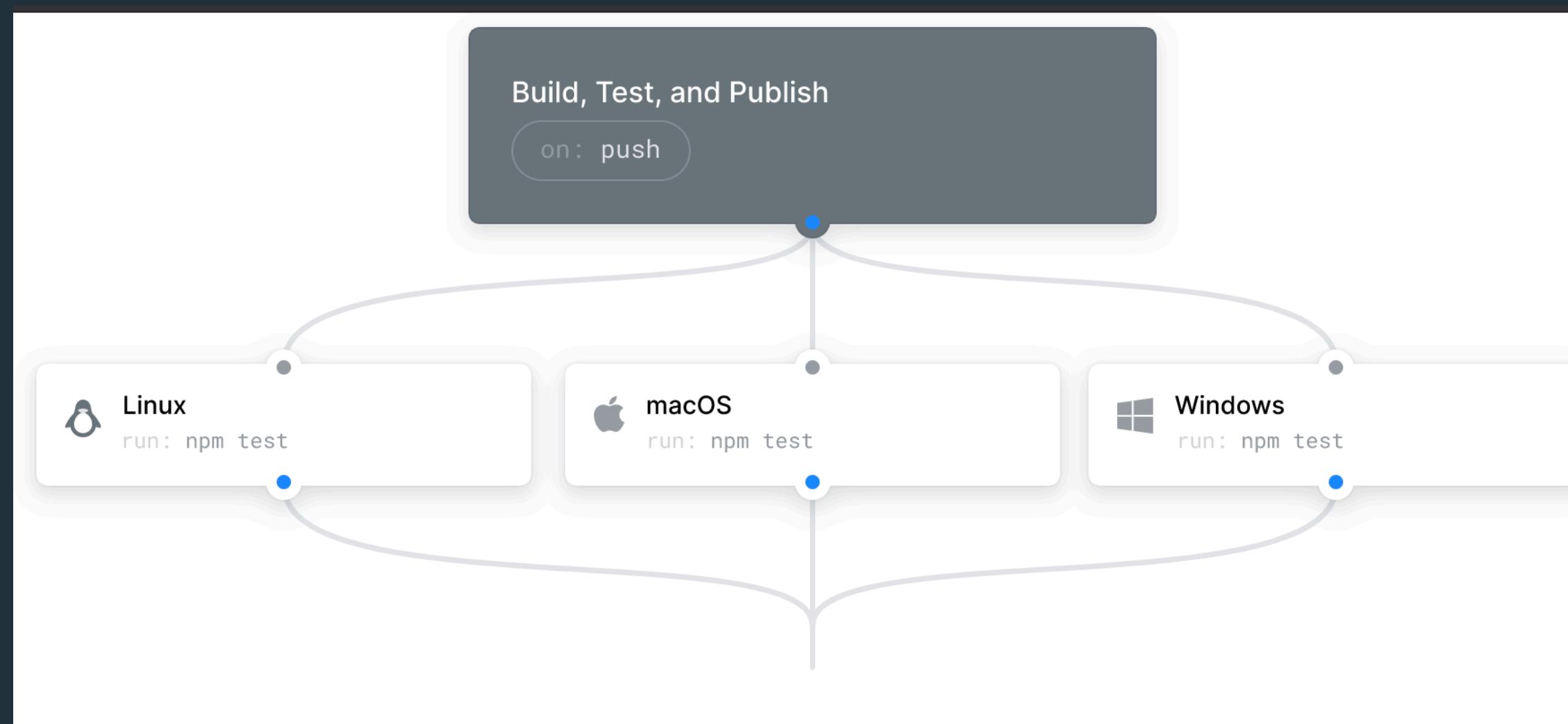




Tools training



GitHub Actions



Gitpod

A screenshot of the Gitpod interface showing a code editor with TypeScript code. The code is part of a file named "rebuild.ts" and includes imports from "fs", "path", and "electron-rebuild". The code handles package.json files and browser module paths.

```
const packFile = path.join(process.cwd(), 'package.json');
const packageText = fs.readFileSync(packFile);
const pack = JSON.parse(packageText);
try {
    pack.dependencies = Object.assign({}, pack.dependencies, dependencies);
    fs.writeFileSync(packFile, JSON.stringify(pack, undefined, ' '));
} catch (err) {
    console.error(`Error writing package.json: ${err}`);
}
const electronRebuildPackageJson = require('electron-rebuild/package.json');
require(`electron-rebuild/${electronRebuildPackageJson['bin'][`electron-rebuild`]}`);
finally {
    require('@loadvs/require').setTime(100);
    require('@loadvs/require').requestAnimationFrame();
}
```

The interface includes a file explorer on the left, a terminal at the bottom, and various status indicators at the bottom right.



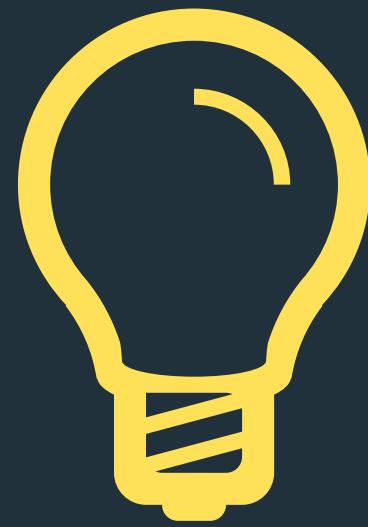
1.5 h Coding
0.5 h Training

2 h Improving

Tools training



Innovation



The problem is not the lack of **ideas**

It's the lack of **time** to try them out





The problem is not the lack of **ideas**

It's the lack of **time** to try them out



How much time do you need?

40h

How much time do you need?

30h

- BEFORE -

Planning

- AFTER -

Follow-up

- DURING -

Event



- BEFORE -

Planning



Plan dates



Announce
and tell stories



Find your teams
aka “Pitch it”

•
•
- DURING -

Event



Remember,
time is ticking



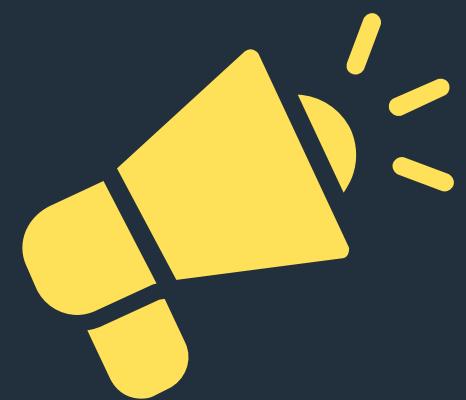
Have fun



Get energized—
eat and drink!

- AFTER -

Follow-up



Presentations—give
it all you got

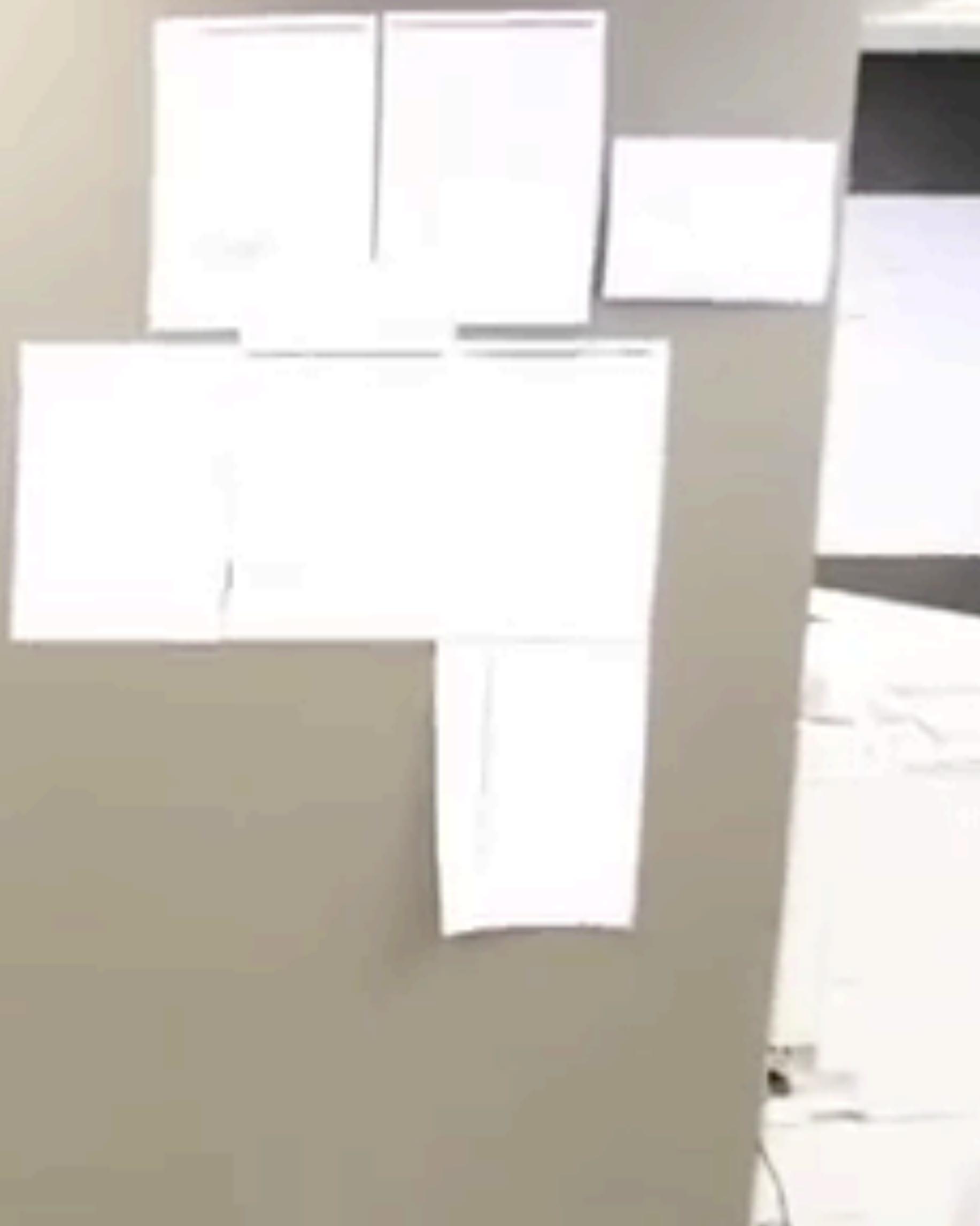
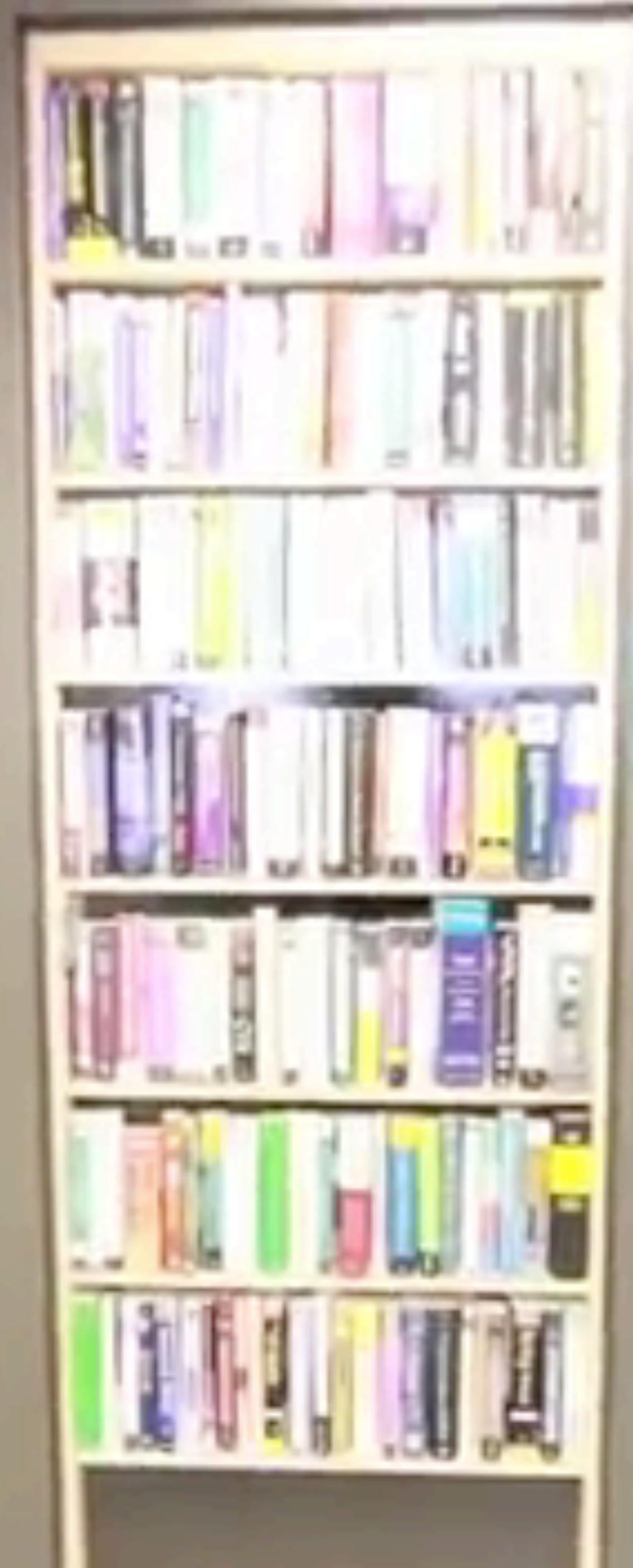


Voting, celebrations, and
winners announced



Get onto a product
roadmap—and plan for
next Hackathon







Every quarter

1.5 h Coding
0.5h Training
0.7h Hackathon

2.7 h Improving

Known knows...



Great ideas



Paper Cuts

Innovation week

Every 8 weeks

1.5 h Coding
0.5h Training
0.7h Hackathon
5.0 h Inno Week

7.7 h Improving





Invest in
discovery time



Work on what matters

To be more effective



Why solve it?

Validation data?

What's the **problem**?

Solutions?

Project Poster

Team:

*Name of project owner
Names of team*

Status:

ACTIVE

Problem space

Why are we doing this?**Problem statement**

What problem/need are you trying to solve/fulfil?

Impact of the problem

What's the impact of this problem on our customers and to our business?

How do we judge success?

What are the goals of the project and the success criteria by which they will be measured?

Possible solutions

High level ideas of possible solutions. (Can be filled out later)

Validation

Validation

What do we already know?

What data or insights do you have to validate this?

What do we need to answer?

What assumptions are we making that need to be validated/refuted?

What are the gaps in our understanding?

Ready to make it

What are we doing?

Succinctly describe what the project will deliver. i.e Elevator pitch.

Why will a customer want this?

How would you sell or market this to your customer?

Visualise the solution

User experience, designs, mockups or prototypes.

Scale and scope

T-shirt size estimate of the effort to make this.

As a user

I want a new statistic button

so that I can see the data sets

Jasmine

As a user

to know the number of data sets

I want a **new statistic button**

I can plan for growth

so that I **can see the data sets**

Think **like your** users



Jasmin
Developer In Training



Lucas
Full-Stack Developer



Tina
Data Scientist

Personas



JASMIN DEVELOPER IN TRAINING

The Tech Learner

“Learning to program will put me on the path to a better career. MongoDB seems like the easiest data layer to learn on and it’s free!”

SUMMARY

Jasmin is making a big career transition, from customer service to tech. She's learning programming on her own time while working her day job, and developing her own app as a learning tool/portfolio piece. She's especially conscious of price and ease of use (in that order) since she's paying for everything herself.

EXPERIENCE

Current Role
2 Years

Technology Roles
6 Months

MongoDB Experience
 Beginner

Primary MongoDB Learning Tools
MongoDB University Certificate in progress
Documentation

BUYING POWER

Decider

COMPANY TYPE

Freelance (Individual)

WHAT I DO

Juggle my day job with learning to code in my free time
Install, develop, and troubleshoot the tech I choose
Manage all aspects of my project

GOALS

Ultimately transition to a career as a Full-Stack Developer
Troubleshoot my own IT issues at an advanced level
Build an app to manage call center schedules as a portfolio piece

WHY I LIKE MONGODB

Atlas, Compass, and MongoDB University are free
Atlas is easy to set up and get started with on my own
Plentiful third-party tutorials available

PAIN POINTS

Learning on my own without a good support network
MongoDB University courses require prior programming and database knowledge
Understanding what to do next after completing each MongoDB University course

WHAT I USE

Atlas Beginner
Compass Beginner
Stitch Beginner

I MIGHT ALSO USE



LUCAS FULL-STACK DEVELOPER

The Advocate

“I love building elegant software. I always try to keep business logic in the code instead of third-party tools so they’re easy to change, even if it creates more work.”

SUMMARY

Lucas is a MongoDB superfan. He brought MongoDB into his company, follows Eliot on Twitter and attends MongoDB World annually. He's very interested in the philosophy behind software tools, and prefers those that are open-source and responsive to customers of all sizes.

EXPERIENCE

Current Role
1 Year

Technology Roles
8 Years

COMPANY TYPE

Advanced

WHAT I DO

Design, develop, and implement custom applications
Write clean code using a wide range of technology and programming languages
Fix bugs and rewrite old software

GOALS

Deliver 5-star apps that elevate the company's reputation
Create bulletproof data security with excellent UI and solid technical foundation
Co-found my own startup in a few years

WHY I LIKE MONGODB

Elegant data platform
Stitch (serverless platform) for app development
Great performance even with high query volume
Easy, convenient, and gets out of my way

PAIN POINTS

Data integrity concerns when handing off data to someone else
Finding documentation for new features
Getting stuck with legacy technology or infrastructure

WHAT I USE

Atlas Advanced
Compass Advanced
Stitch Intermediate/Advanced

I MIGHT ALSO USE

Oracle CouchDB Laravel Redis node.js JavaScript Durandal Robo 3T



TINA DATA SCIENTIST

The Statistician

“We would like to do machine learning. We're currently working on that, but we're learning, too. So the main thing for us is data integration and data visualization.”

SUMMARY

Tina analyzes data from several databases, then builds clean data sets when needed, usually in SQL. She can write scripts to query MongoDB but she learned how to work on relational databases, so she's working on shifting her mindset to a document model. Visualizations are important to Tina as she works with data from various sources to provide insights.

EXPERIENCE

Current Role
4 Years

Relevant Experience
8 Years

MongoDB Experience
 Beginner / Intermediate

Primary MongoDB Learning Tools
Documentation

BUYING POWER

Consulted

COMPANY TYPE

Corporate (50-1000 employees)

WHAT I DO

Use scripting to combine data from all sources into a single pipeline
Identify opportunities for increased efficiency and improved operations
Analyze the data using statistical methods
Create visualizations using Charts, Excel, or Tableau
Provide key performance indicator (KPI) data to key stakeholders

GOALS

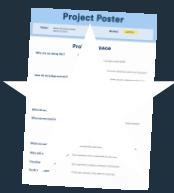
Create a shared understanding of how the company is meeting its goals from a data-driven perspective
Gain actionable insights from the data

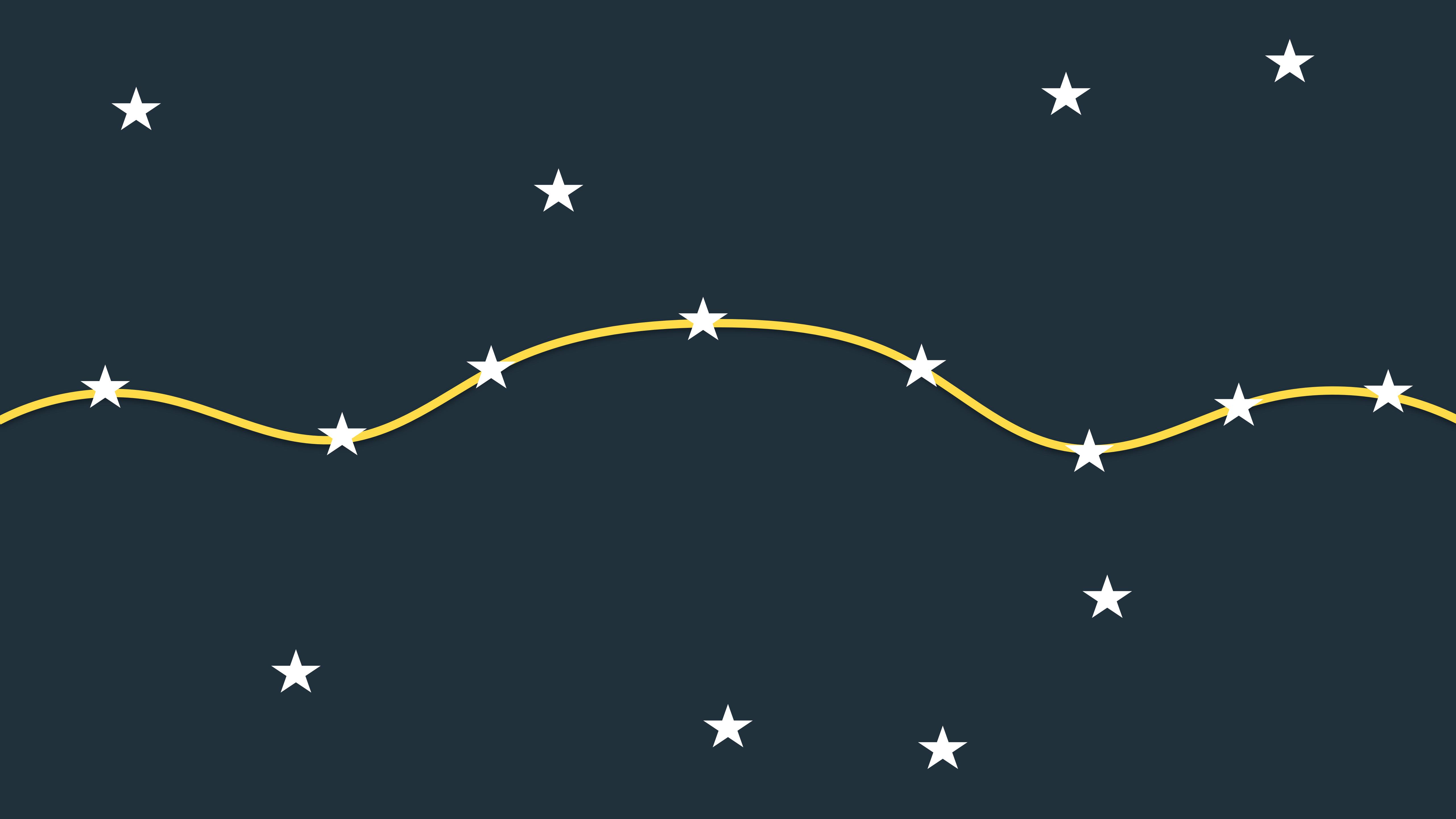
WHAT I USE

BI Connector Intermediate
MongoDB on GCP Beginner
Charts Beginner

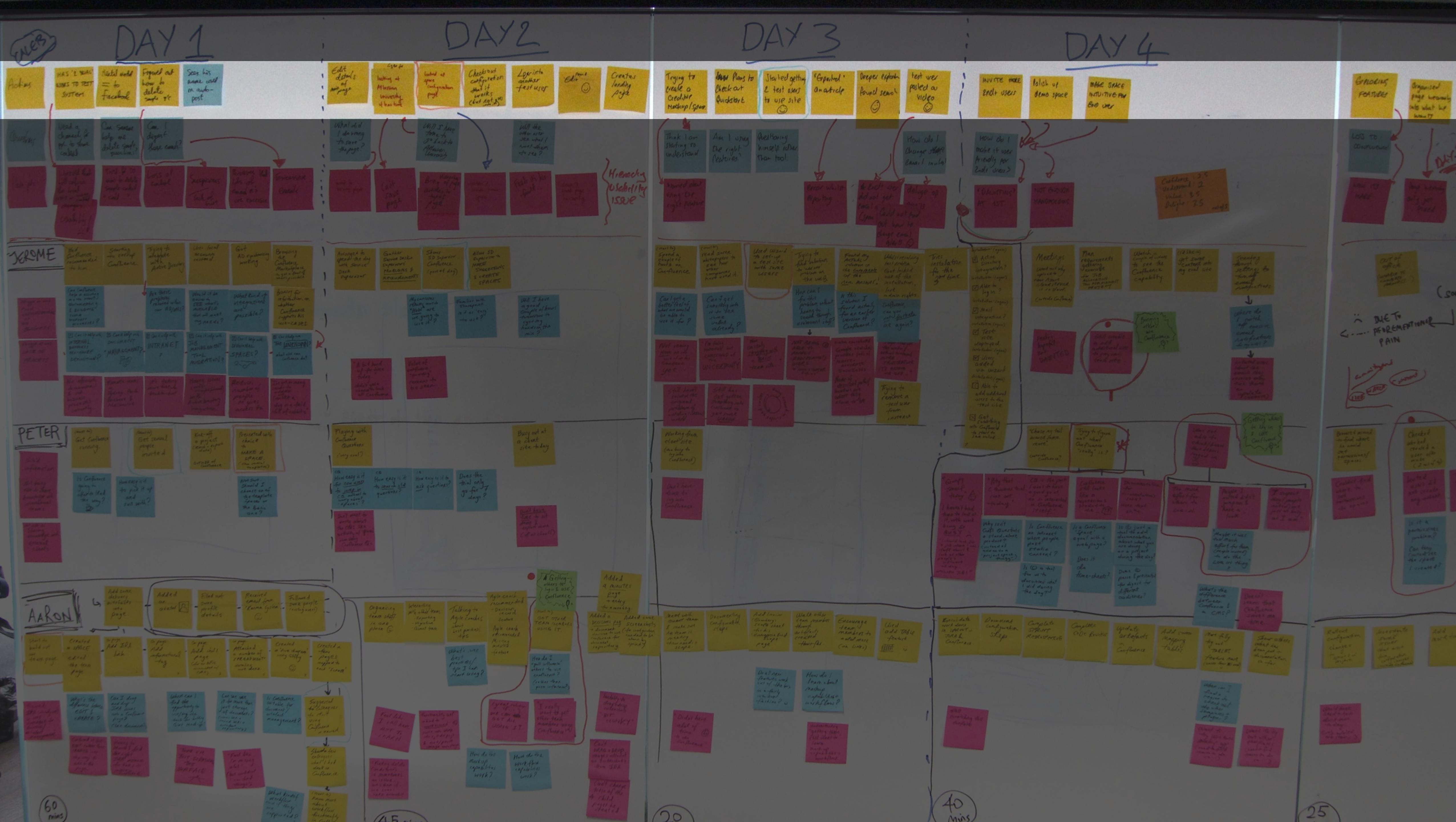
I MIGHT ALSO USE

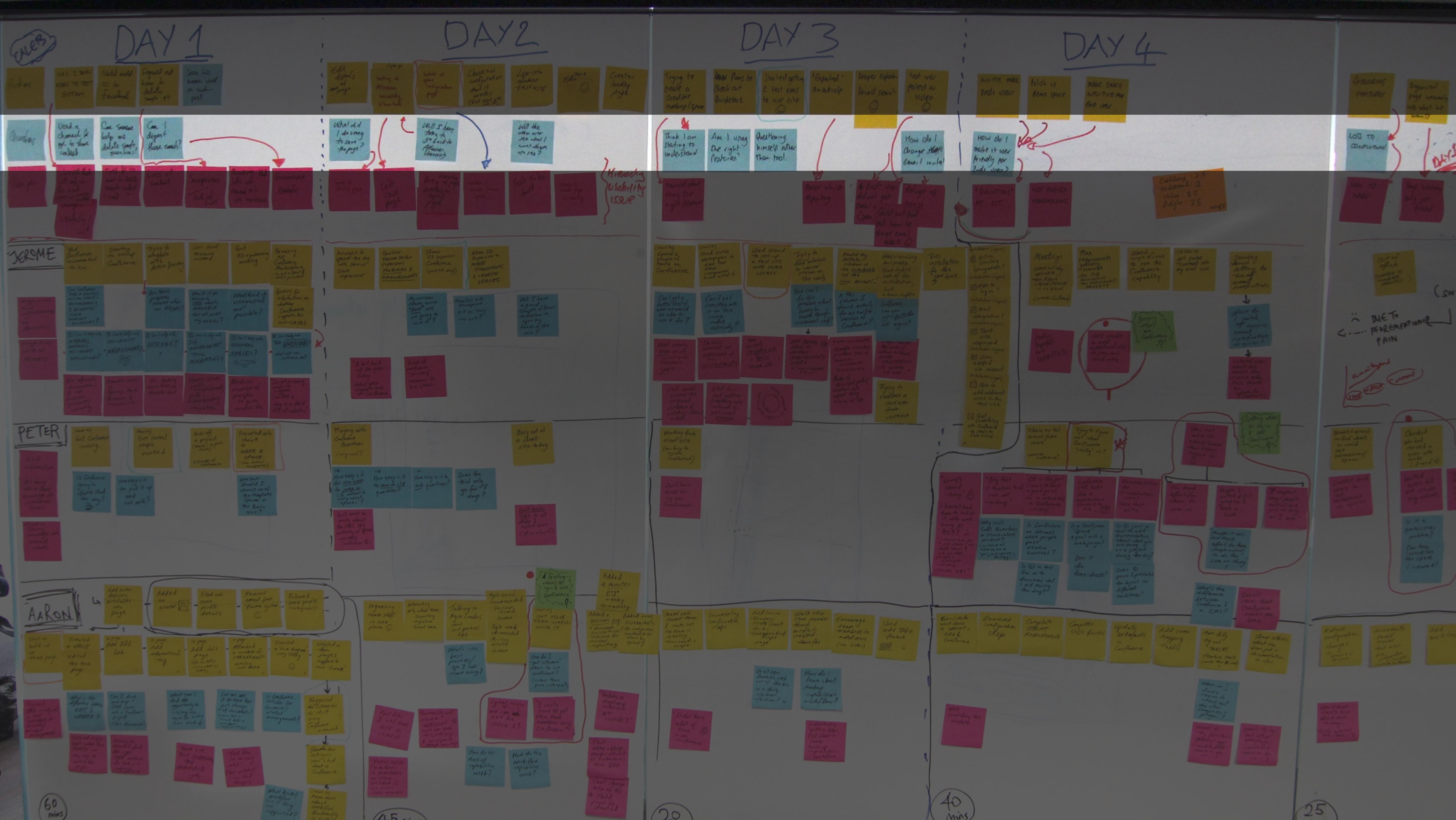
PostgreSQL MySQL Oracle SAP HANA PANDA Redis MongoDB Apache Hadoop Apache Spark

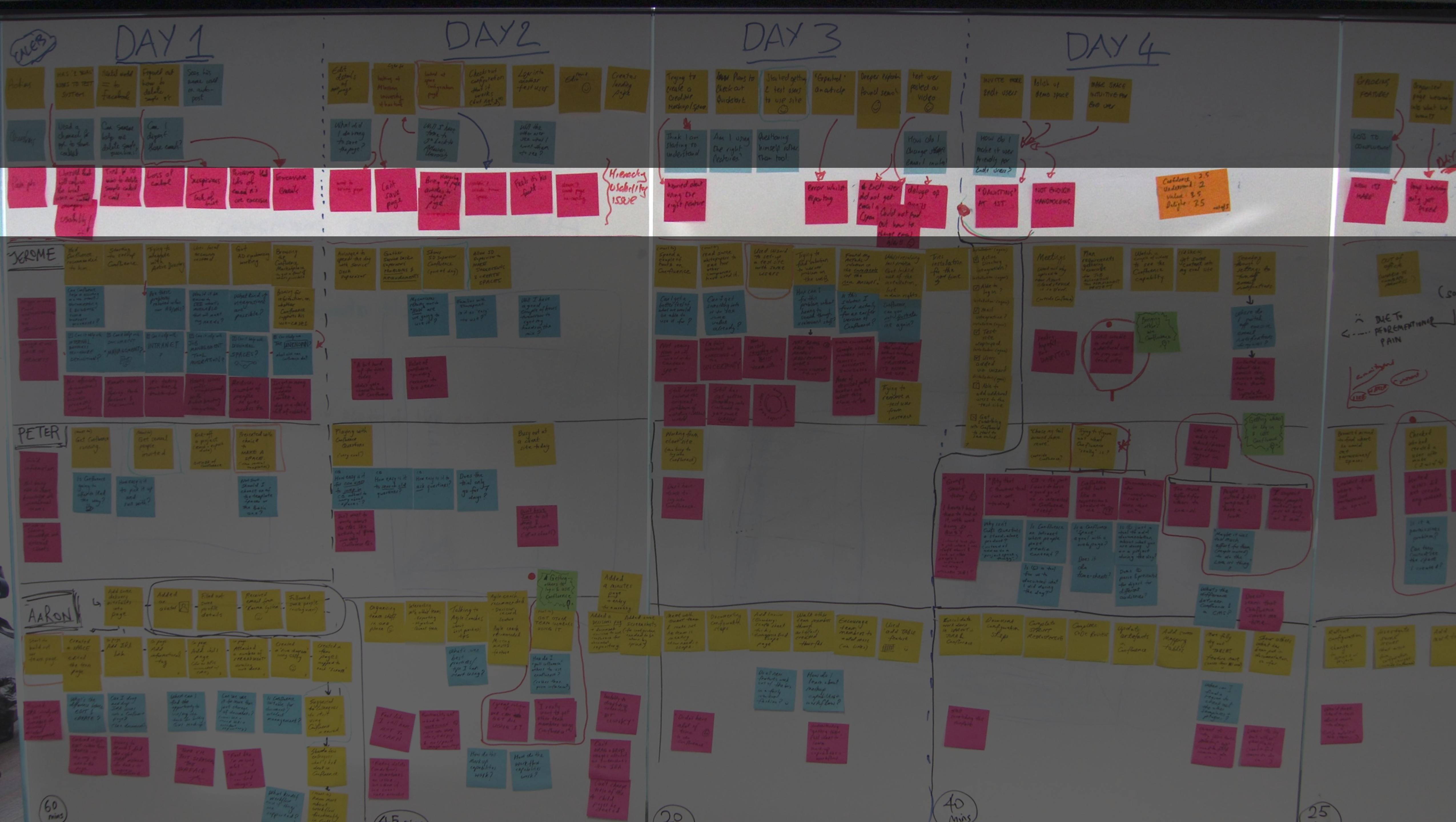


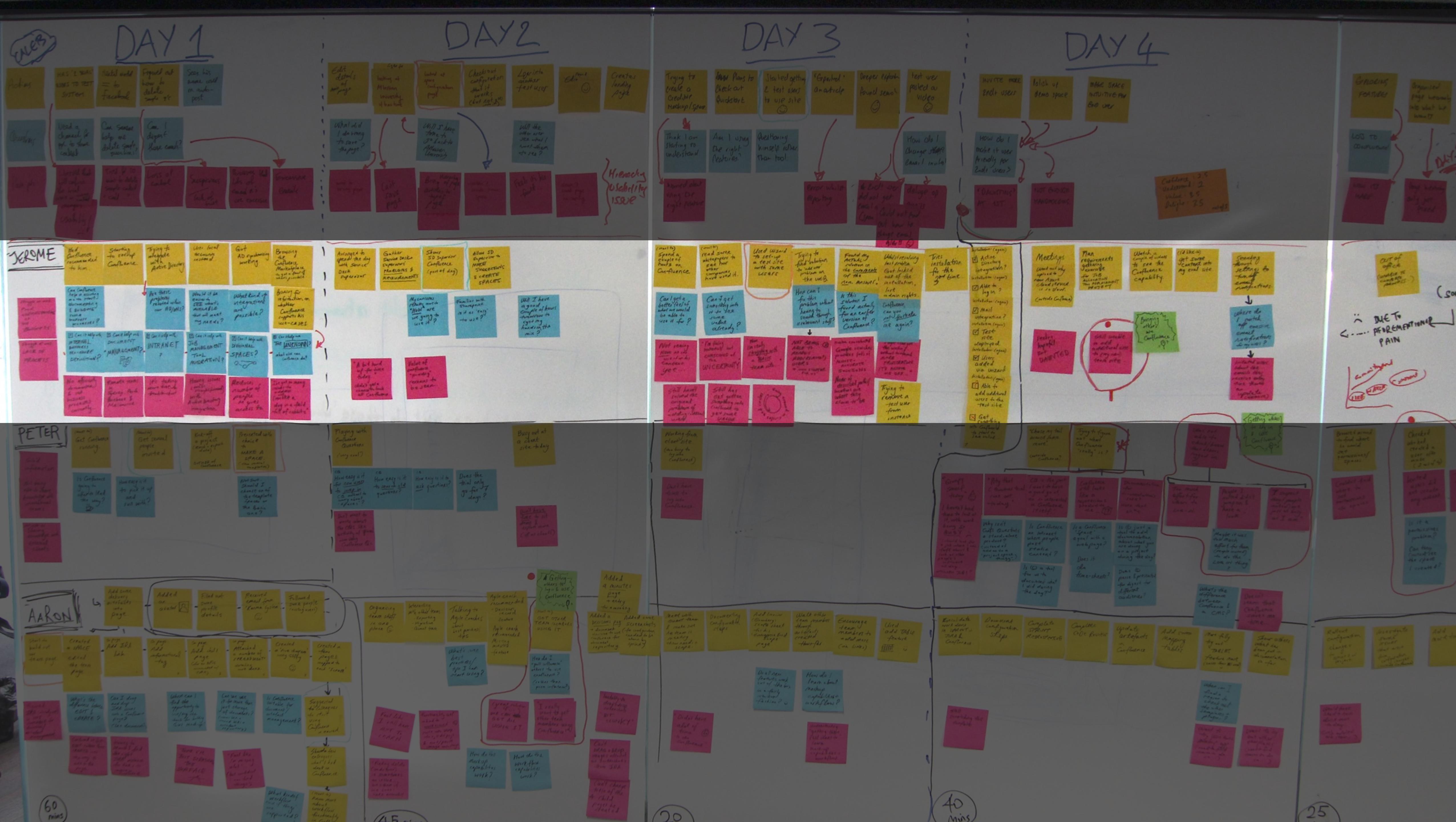






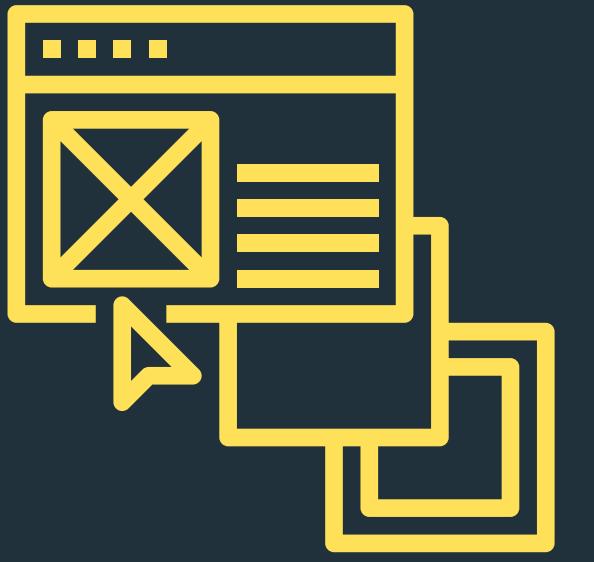








Code



Product



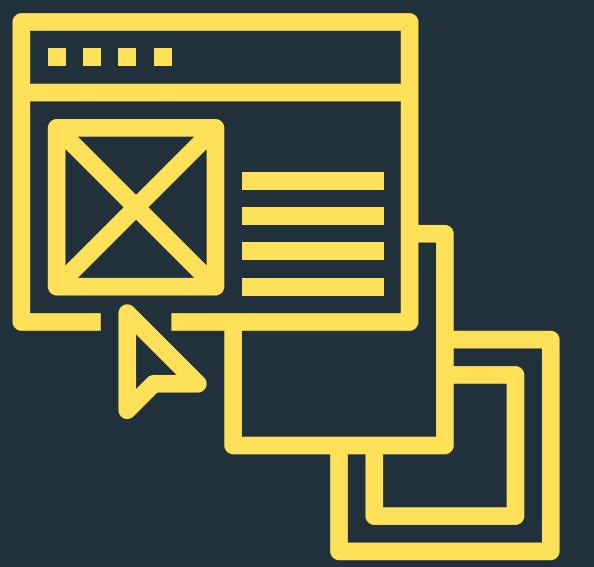
Code

“

I wish engineers spent less time
understanding the problem and
more time coding.



said nobody, ever



Product



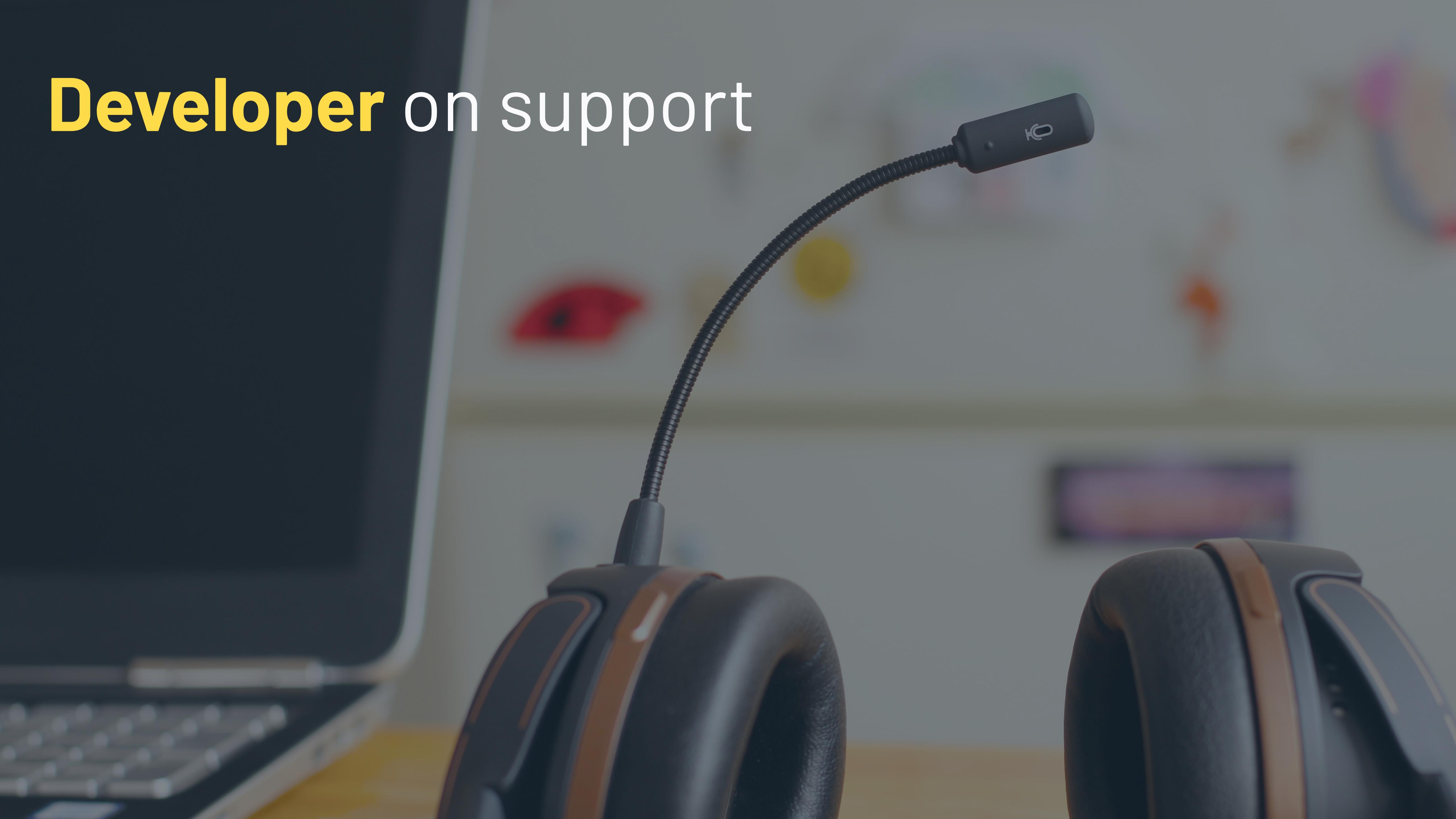
Code

Product Engineer

Hallway testing



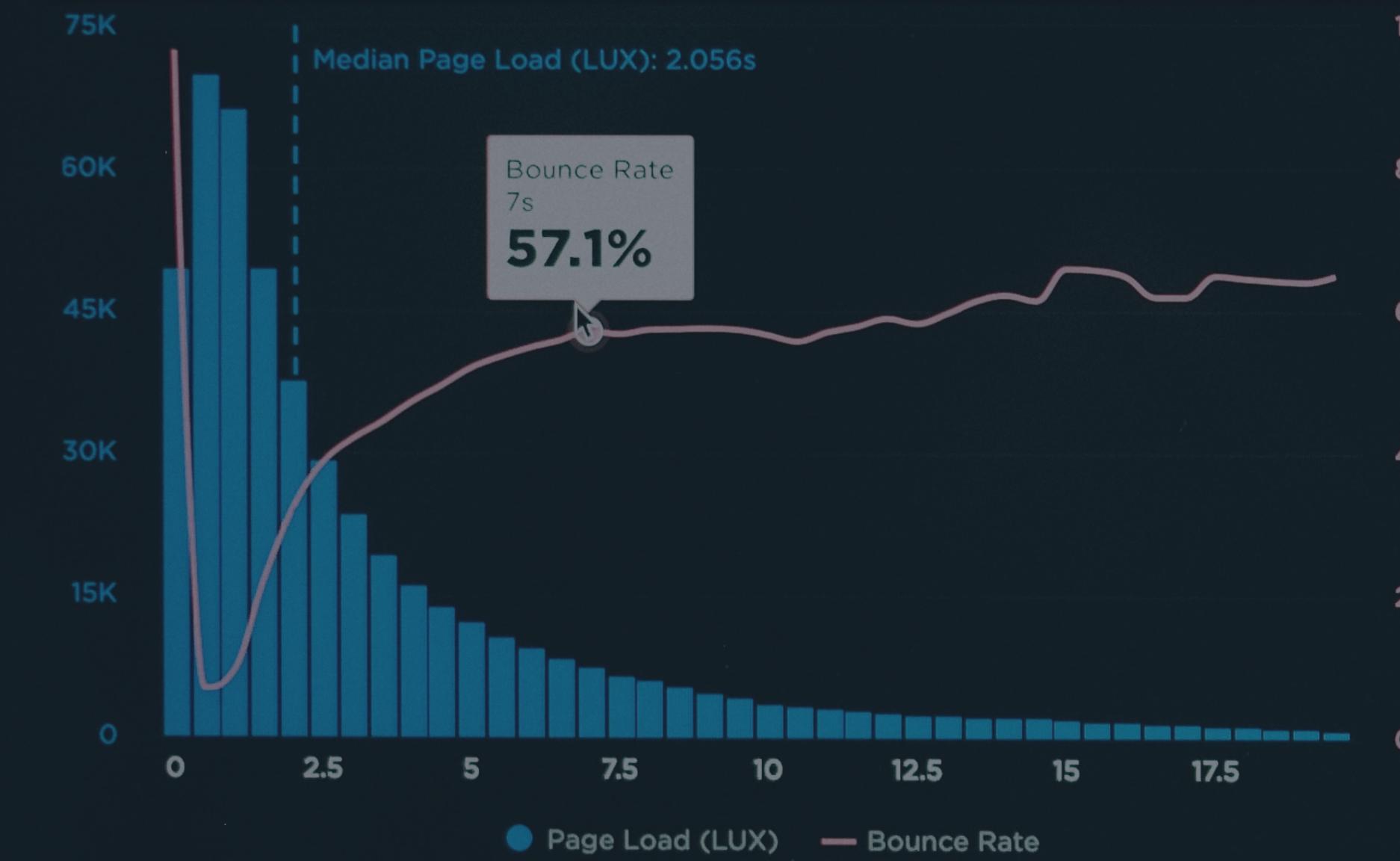
Developer on support



Data detective

USERS: LAST 7 DAYS USING MEDIAN ▾

LOAD TIME VS BOUNCE RATE



OPTIONS

100 %

80 %

60 %

40 %

20 %

0 %

START RENDER VS BOUNCE RATE

40K

32K

24K

16K

8K

0

Median Start Render (LUX): 1.031s

40 %

30 %

20 %

10 %

0 %

● Start Render (LUX) — Bounce Rate



OPTIONS

100 %

80 %

60 %

40 %

20 %

0 %

PAGE VIEWS VS ONLOAD

Page Load (LUX)

0.7s

Page Views (LUX)

2.7MpvS

Bounce Rate (LUX)

40.6%

OPTIONS

500K 100%

400K 80%

300K 60%

200K 40%

SESSIONS

Sessions (LUX)

479K

4 pvs

3.2 pvs

2.4 pvs

1.6 pvs

LOAD TIME

SESSION LENGTH

Session Length (LUX)

17min

PVs Per Session (LUX)

2pvs

OPTIONS

100K 40 min

80K 32 min

60K 24 min

40K



Team code

Learn

Experiment

What matters

The Effective  Developer

Team code

Learn

Experiment

What matters



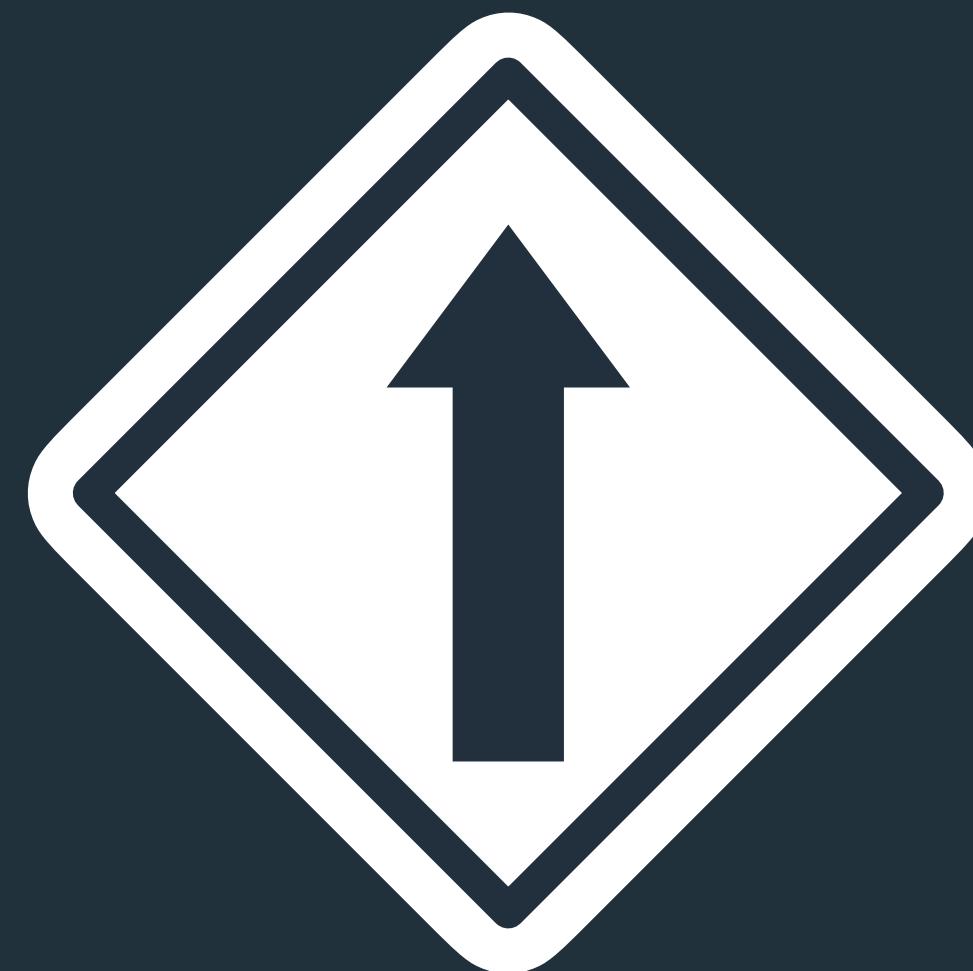
Effective

Team code

Learn

Experiment

What matters

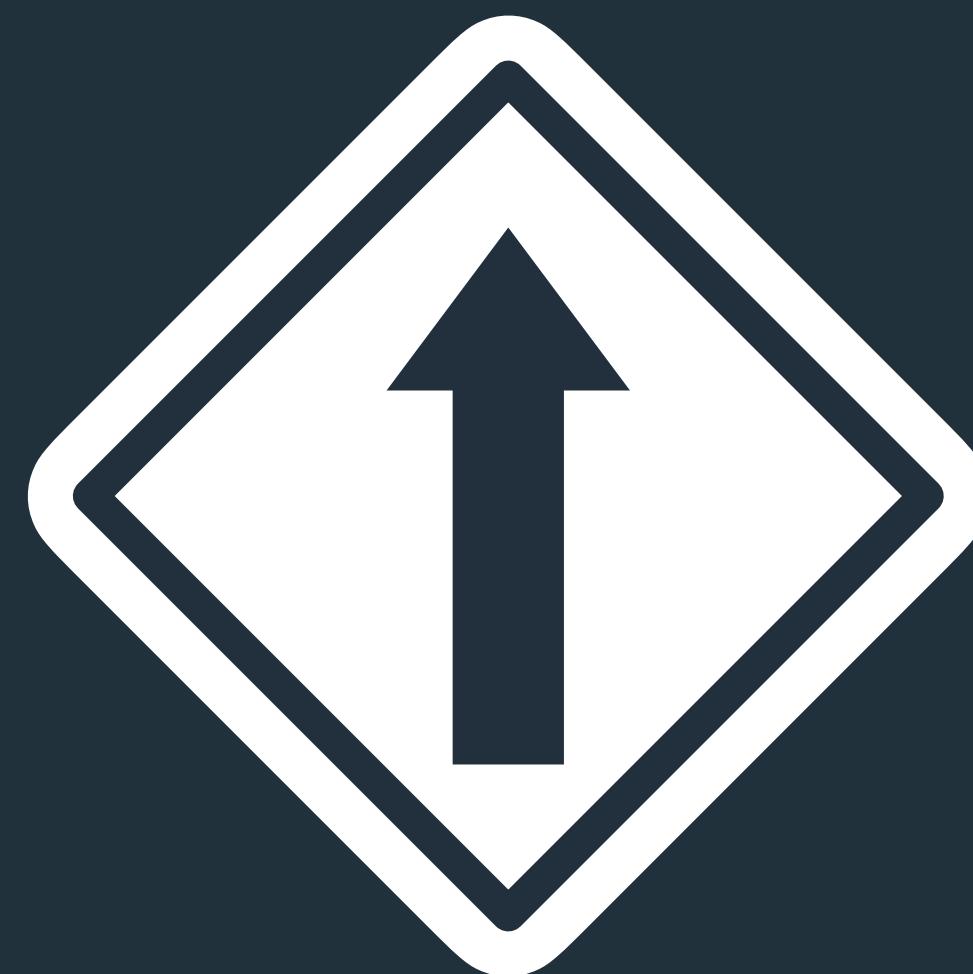


Efficient

Automation

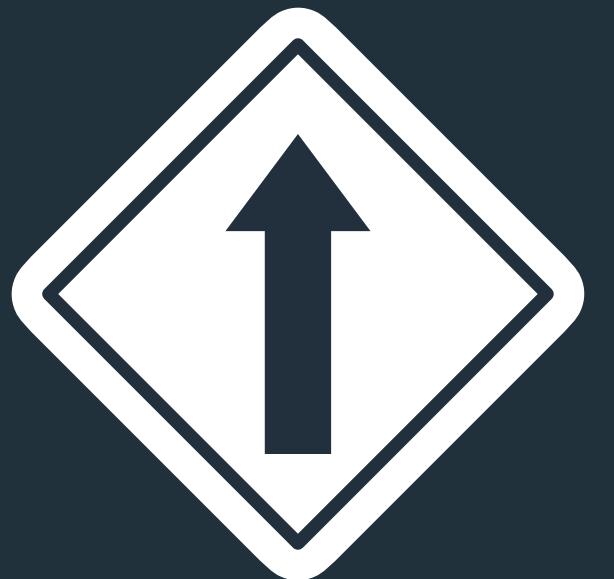
Tools

Processes



Efficient

Efficient



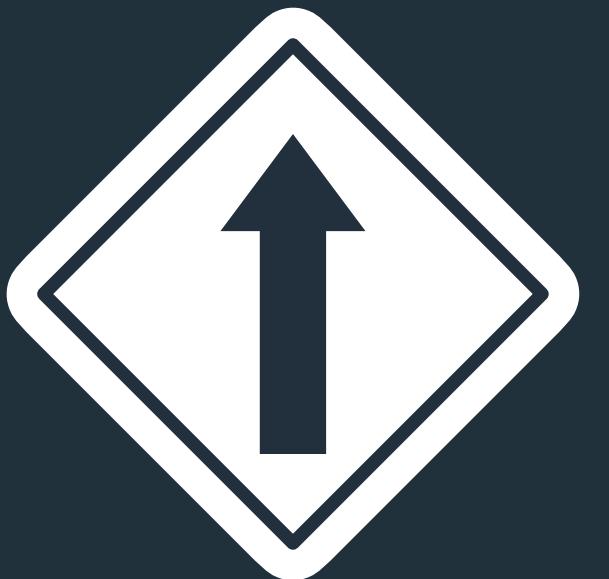
Get more stuff done

Effective



Get the right stuff done

Efficient



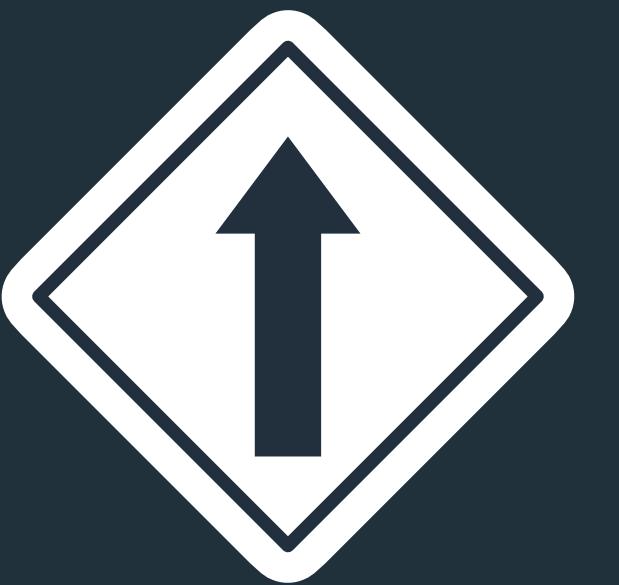
Get more stuff done

Effective



Get the right stuff done

Output



Efficient

Outcome



Effective

Thank you

Think **outcome** first,
be **effective**,
and get **s%*t** done