

ERHVERVSAKADEMI AARHUS
BUSINESS ACADEMY AARHUS

GitHub Copilot & Vibe Coding

Movie App

Seg film...

Allé gener

Sortér: Titel (A-Å)

Barbie (2023)
Adventure, Comedy, Fantasy
★★ 7
Director: Greta Gerwig

Dune (2021)
Adventure, Drama, Sci-Fi
★★ 8
Director: Denis Villeneuve

Dune: Part Two (2024)
Action, Adventure, Drama
★★ 8.7
Director: Denis Villeneuve

Everything Everywhere All at Once (2022)
Action, Adventure, Comedy
★★ 7.8
Director: Daniel Kwan, Daniel Scheinert

Fight Club

Tom Hanks Is

The Dream Is Real

Movie App

Seg film...

Allé gener

Sortér: Titel (A-Å)

Barbie (2023)
Adventure, Comedy, Fantasy
★★ 7
Director: Greta Gerwig
Actors: Margot Robbie, Ryan Gosling, America Ferrera

Barbie and Ken embark on a journey of self-discovery after leaving the utopian Barbie Land for the real world.

Inception (2010)
Action, Adventure, Sci-Fi
★★ 8.8
Director: Christopher Nolan

The Matrix (1999)
Action, Sci-Fi
★★ 8.7
Director: Lana Wachowski, Lilly Wachowski

Movie App

Seg film...

Dune

Allé gener

Sortér: Titel (A-Å)

Dune (2021)
Adventure, Drama, Sci-Fi
★★ 8
Director: Denis Villeneuve

Dune: Part Two (2024)
Action, Adventure, Drama
★★ 8.7
Director: Denis Villeneuve

Movie App

Seg film...

Sci-Fi

Sortér: År (nyeste)

Dune (2021)
Adventure, Drama, Sci-Fi
★★ 8
Director: Denis Villeneuve

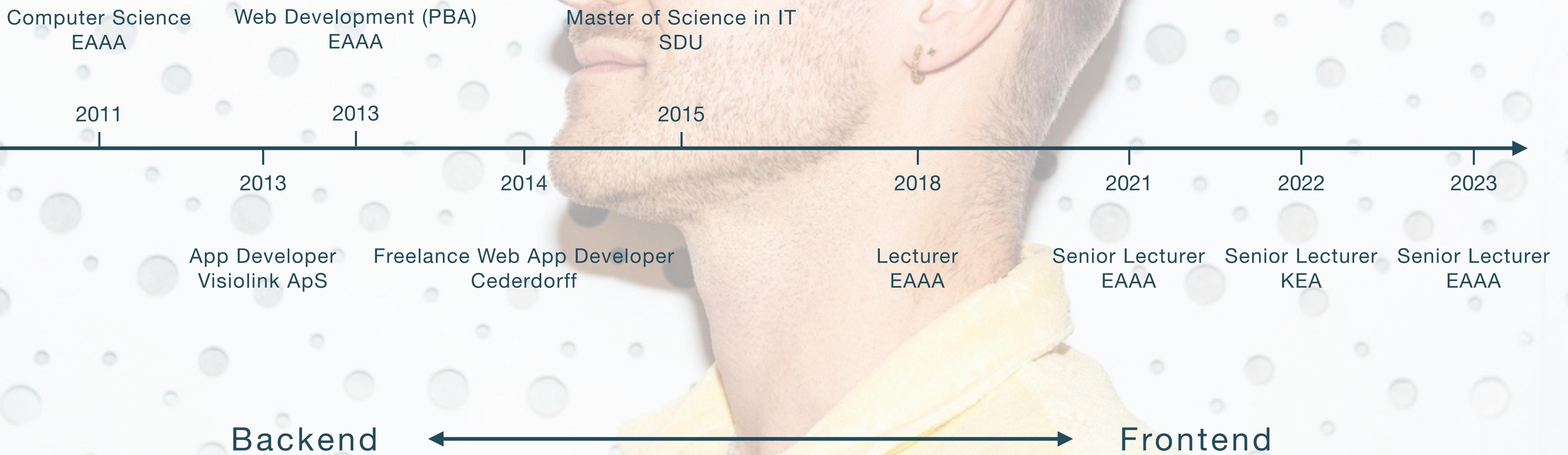
Inception (2010)
Action, Adventure, Sci-Fi
★★ 8.8
Director: Christopher Nolan

The Matrix (1999)
Action, Sci-Fi
★★ 8.7
Director: Lana Wachowski, Lilly Wachowski

I'm Rasmus Cederdorff (RACE)
Senior Lecturer
Freelance Web App Developer

- Programming with an eye for UI and UX.
- Web Development, JavaScript, React, BaaS & Node.js
- “I speak JavaScript”.
- Websites, Webshops, Web Apps, Mobile Apps, Server App and BaaS.







I'm Rasmus Cederdorff
Holstebro
Alicia & Ida

From Holstebro
I'm into sports
Love (apple) gadgets, to take
pictures & interior design
projects

What's with my arm?





**“Learning to code requires a HUGE
investment of time and energy.”**

<https://medium.com/martinssoft/learn-javascript-c1cca9db9015>

“

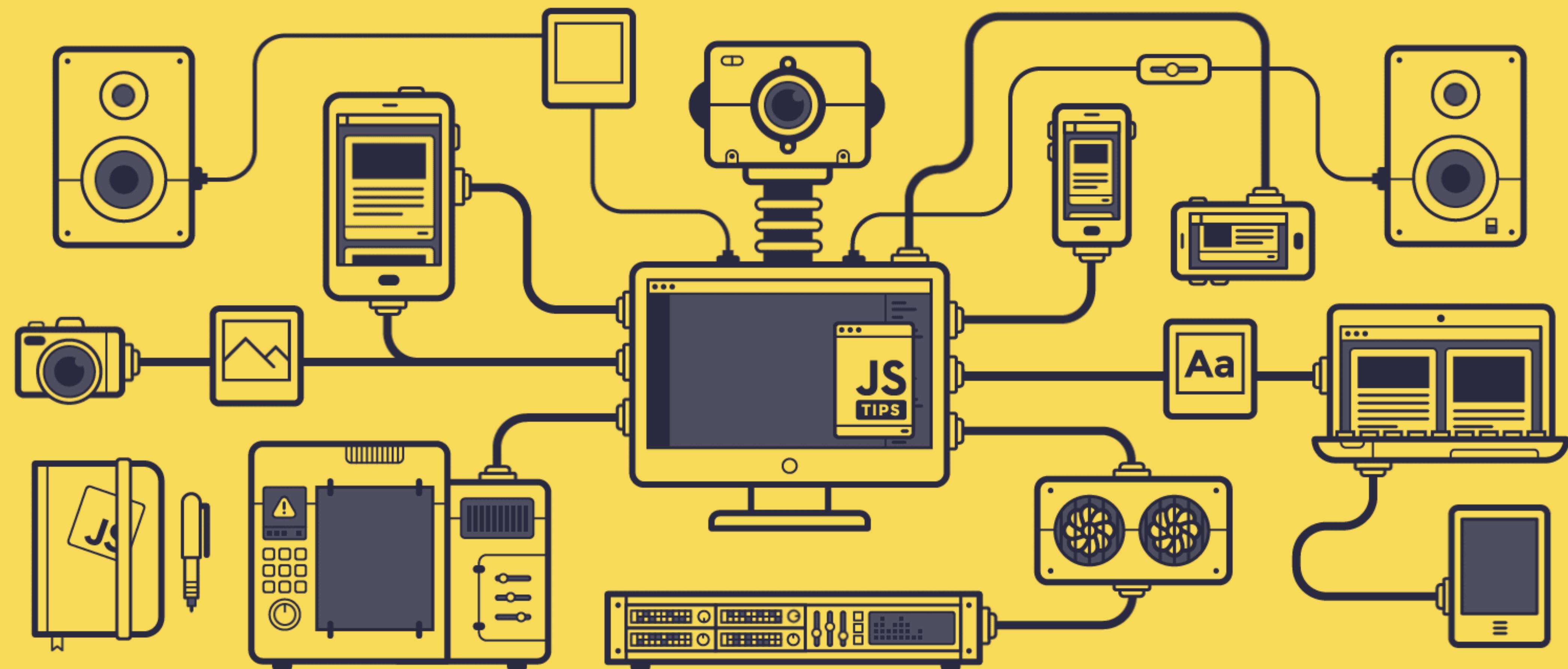
The cool thing about JavaScript is
that you can create stuff that will put
a smile on your face, as a developer.

You can create stuff and it will
visually look like something, and it'll
do stuff, and it makes you feel good,
it makes you fall in love with
programming.

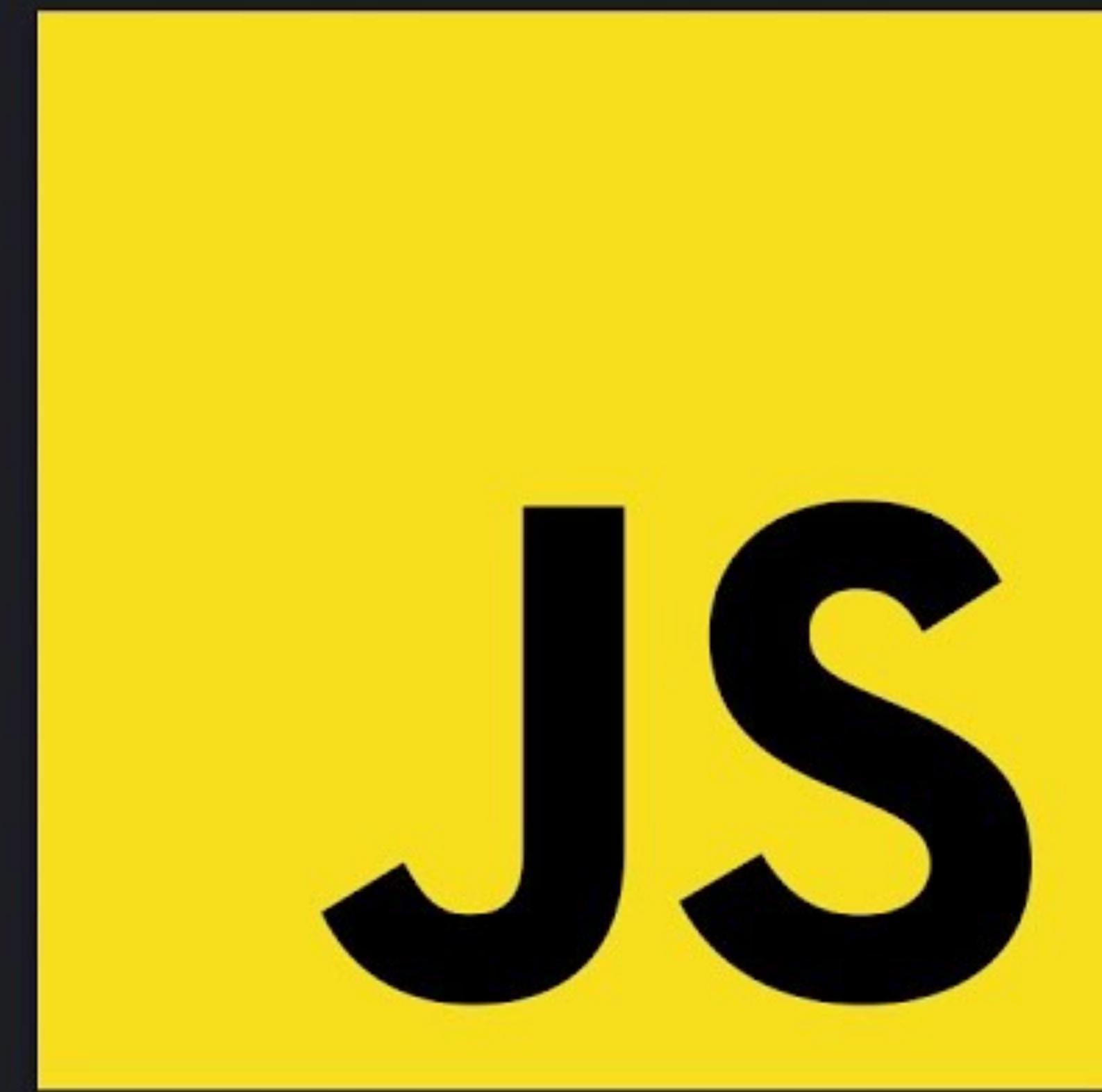
”

Lex Fridman
Computer Scientist

<https://www.youtube.com/watch?v=GLhyjVZp0cw&t=252s>



100 *SECONDS OF*



<https://www.youtube.com/watch?v=DHjqpvDnNGE>

JS

101



<https://www.youtube.com/watch?v=IkIFF4maKMU>

```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Page Title</title>
5      <link rel="stylesheet" href="styles.css" />
6    </head>
7    <body>
8      <h1>This is a Heading</h1>
9      <p>This is a paragraph.</p>
10     <button onclick="tryMe()">Try me</button>
11     <script src="app.js"></script>
12   </body>
13 </html>
14
```

What is JavaScript?

.. is the world's most popular programming language.

... is the programming language of the Web.

... is easy to learn.

... can change content of a webpage (HTML content).

... can change styling of HTML.

```
1  function tryMe() {
2    document.body.style.backgroundColor = "red";
3    document.body.style.color = "white";
4  }
5
```

index.html x

```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Page Title</title>
5      <link rel="stylesheet" href="styles.css" />
6    </head>
7    <body>
8      <h1>This is a Heading</h1>
9      <p>This is a paragraph.</p>
10     <button onclick="tryMe()">Try me</button>
11     <script src="app.js"></script>
12   </body>
13 </html>
14
```

With JavaScript we are able to

... build dynamic web pages and web apps.

... fetch content/ data from a backend (web service, data source, etc.) through an API.

app.js x

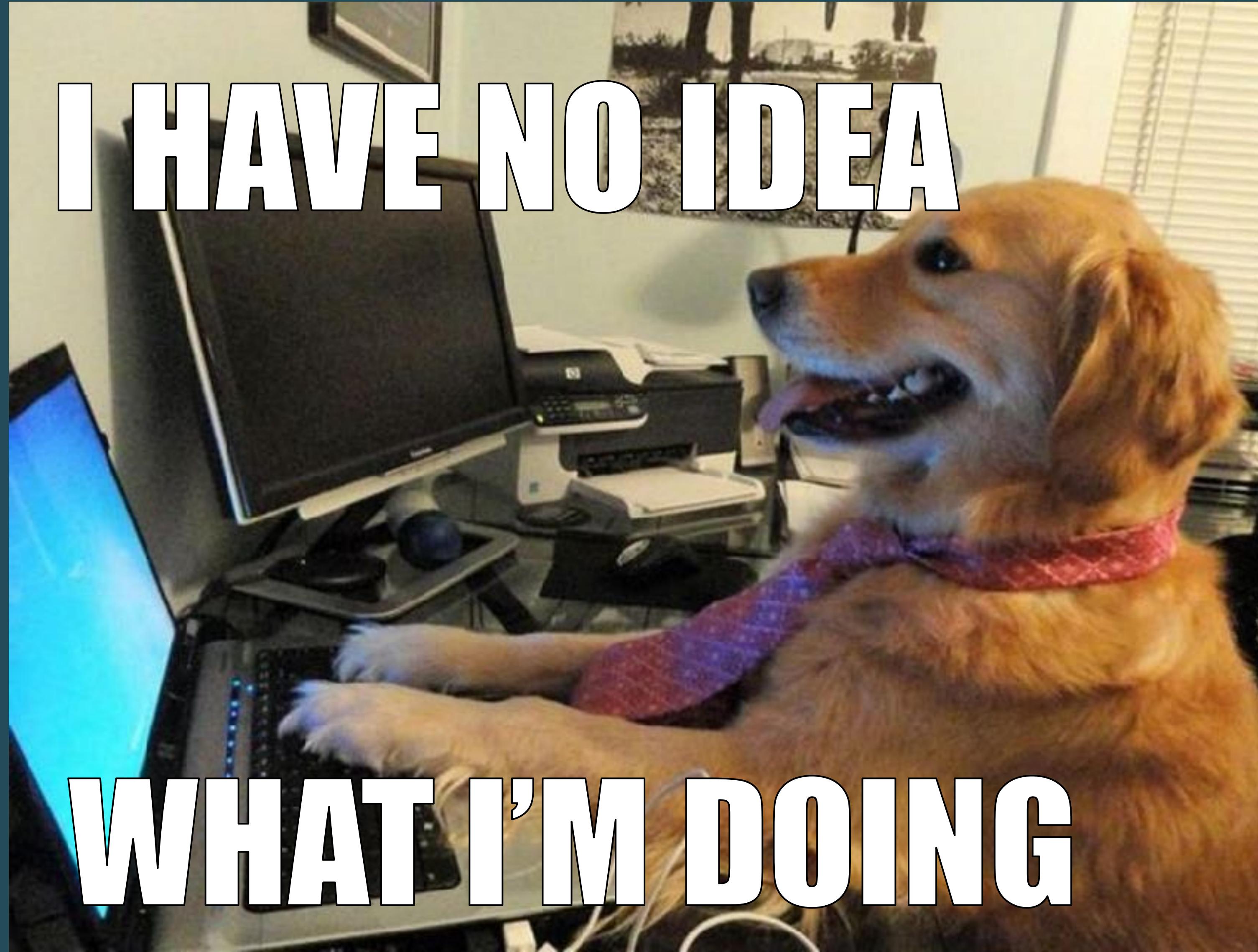
```
1  function tryMe() {
2    document.body.style.backgroundColor = "red";
3    document.body.style.color = "white";
4  }
5
```

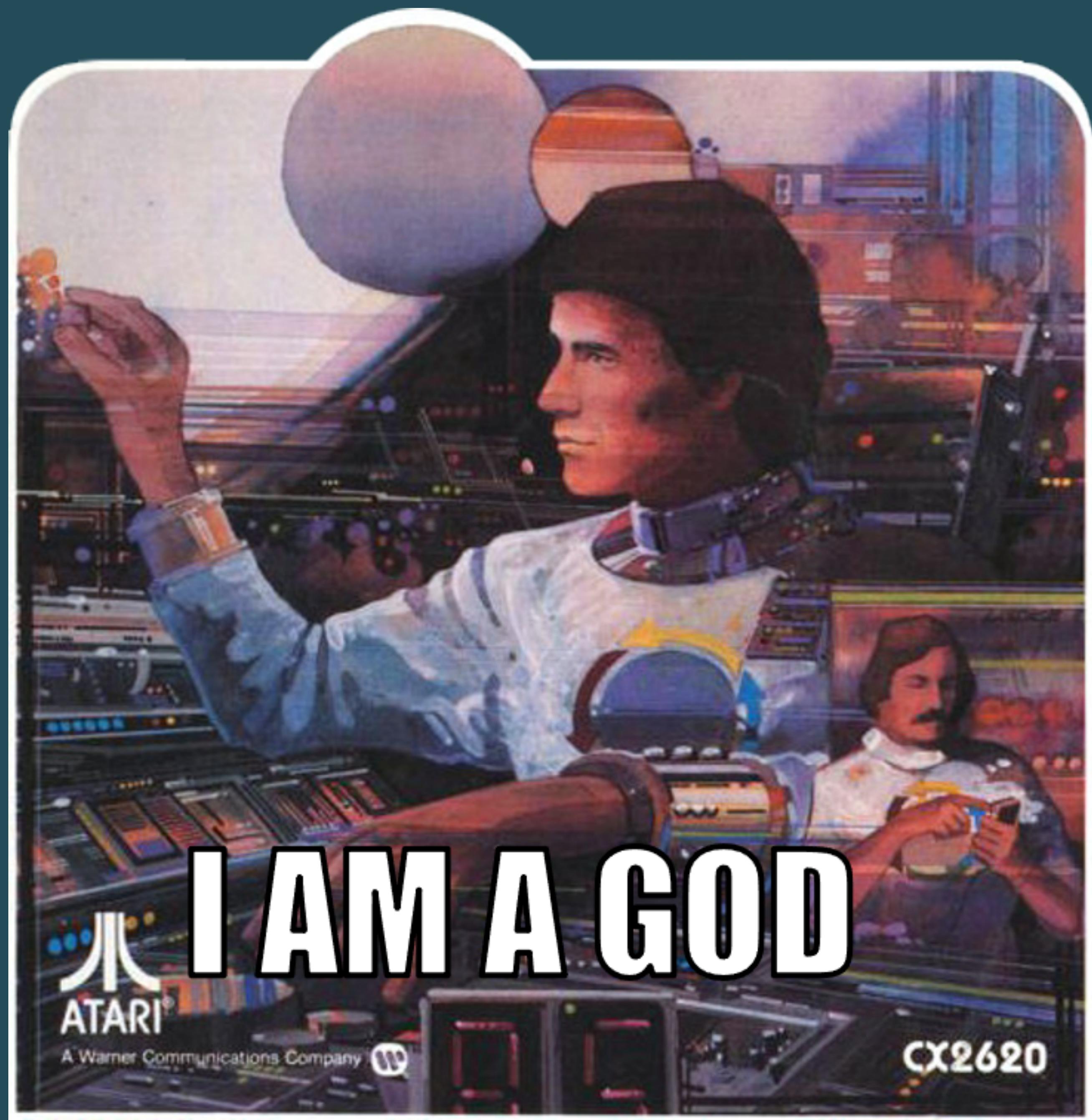
... do DOM-manipulation.

... build and develop anything 

I HAVE NO IDEA

WHAT I'M DOING



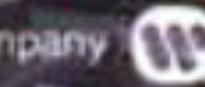


I AM A GOD



ATARI

A Warner Communications Company

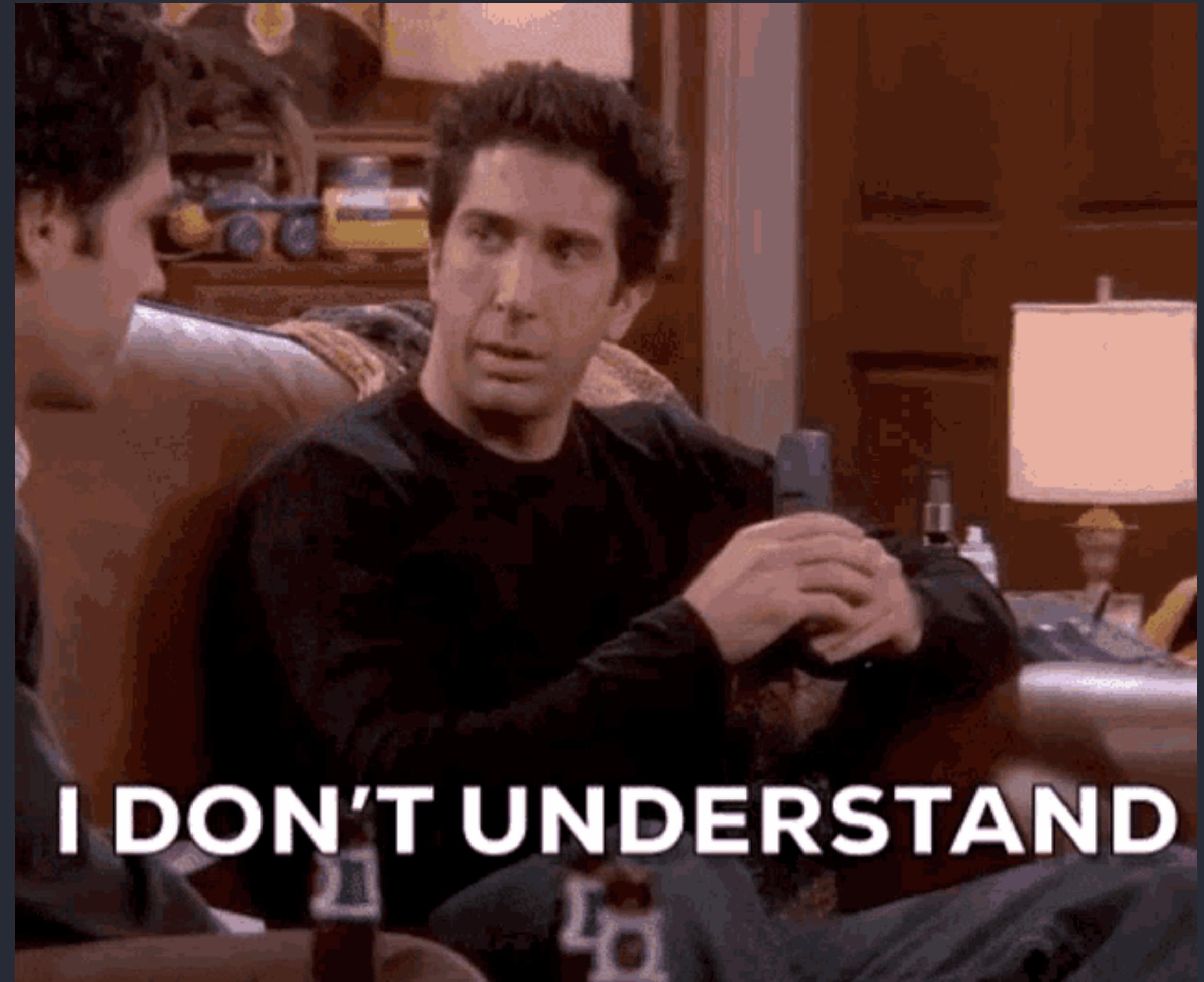


CX2620

JUST DO IT.



Please,
Do not try to
understand
everything!



I DON'T UNDERSTAND

Accept the gaps

– understanding grows with practice

Chef on TV



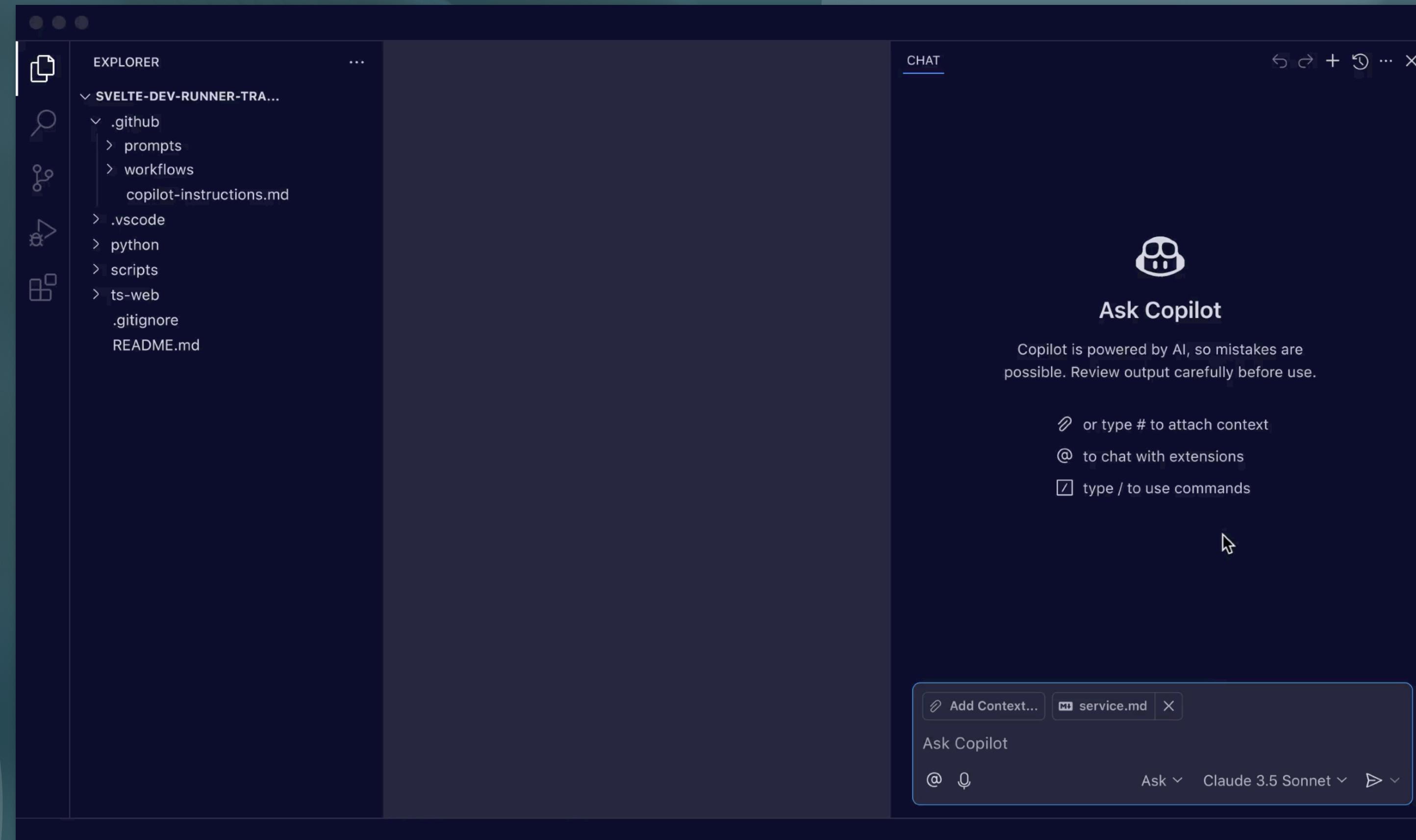
Real Chef



IxD - Interaction Design

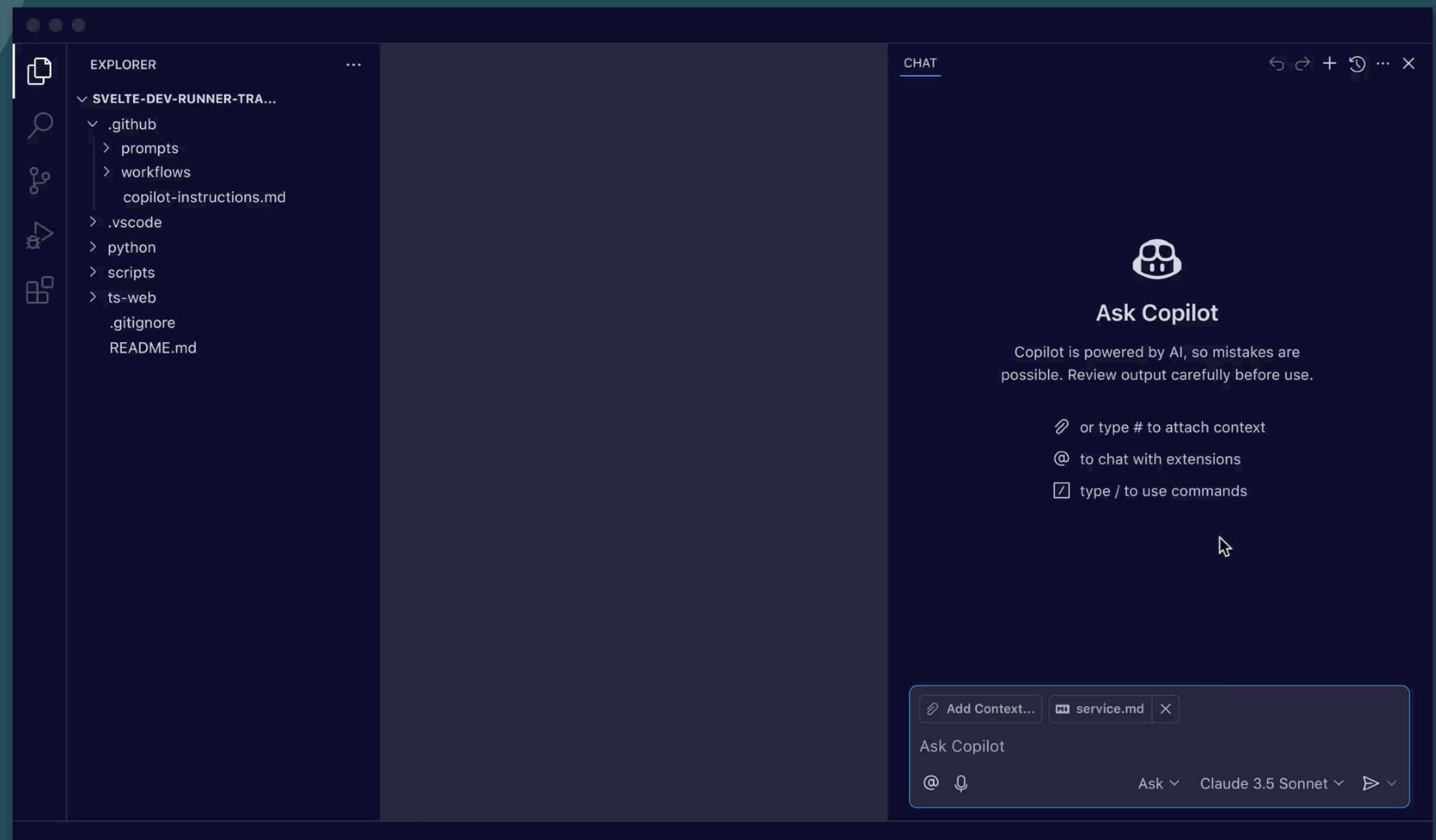
Se det som en smagsprøve på IxD

GitHub Copilot



GitHub CoPilot:

Din AI-parprogrammør



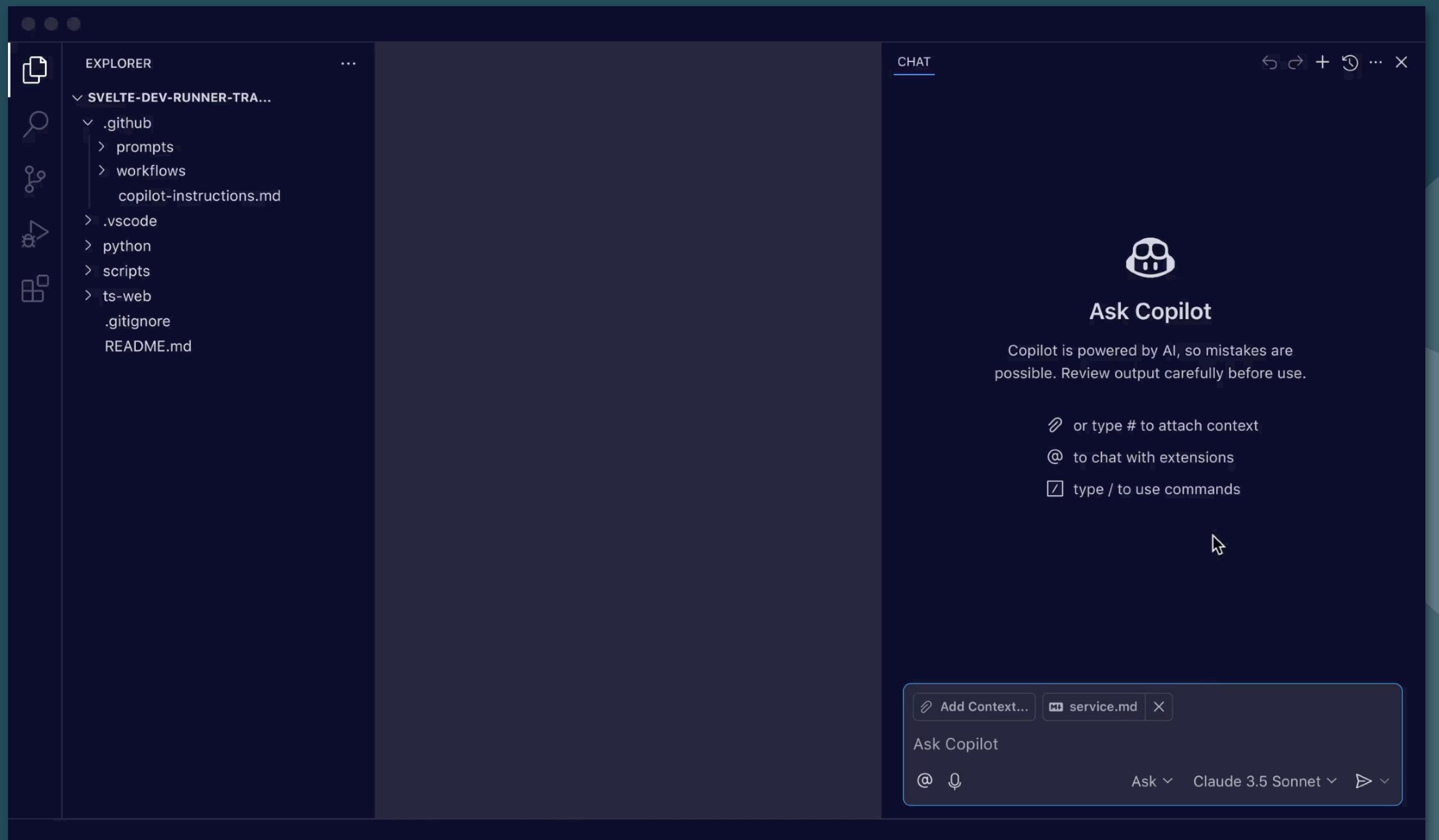
"Code faster. Code smarter."

- AI der hjælper dig med at skrive, forklare og forbedre kode direkte i VS Code.

Men hvad er GitHub Copilot?

AI-assistent integreret i VS Code

- Trænet på millioner af open-source repos
- Kan:
 - Foreslå kode mens du skriver
 - Forklare eksisterende kode
 - Hjælpe med debugging
 - Skrive tests, dokumentation og kommentarer
- Arbejder på tværs af sprog og frameworks



Hvorfor bruge Copilot?

Altså, hvad er målet?

- Øge flow state
- Mindske friktion ved kodning
- Hjælpe med ideer, struktur og syntax



Copilot Chat i VS Code

Der findes tre primære at interagere på...

Mode	Beskrivelse	Typisk brug
 Ask	Stil spørgsmål til Copilot om din kode	"Forklar hvad denne funktion gør"
 Edit	Markér kode → Bed Copilot ændre den	"Gør denne funktion asynkron"
 Agent	Giv handlinger eller opgaver	"Fix all ESLint errors"

Copilot Chat i VS Code

Ask / Edit / Agent

Mode	Beskrivelse	Typisk brug
Ask	Stil spørgsmål til Copilot om din kode	"Forklar hvad denne funktion gør"
Edit	Markér kode → Bed Copilot ændre den	"Gør denne funktion asynkron"
Agent	Giv handlinger eller opgaver	"Fix all ESLint errors"

Situation	Prompt
Forklaring	"Explain this component in simple terms"
Refaktorering	"Rewrite this using async/await"
Test	"Write a Jest test for this function"
Dokumentation	"Add JSDoc comments to this file"
Bugfix	"Why might this function return undefined?"

Copilot Tips & Best Practices

Sådan får du mest ud af Copilot Chat

- Vær specifik – jo mere kontekst, jo bedre svar
- Brug fagsprog og termer
- Brug kommentarer som “prompts” i koden
- Læs og forstå hvad Copilot foreslår
- Brug // til at styre tonen:



Fra AI-assistent til vibe-coding flow

Men nu skal vi “bare” prøve at se hvor vildt det kan blive og
hvor meget det kan!

Hvad er Vibe-coding?

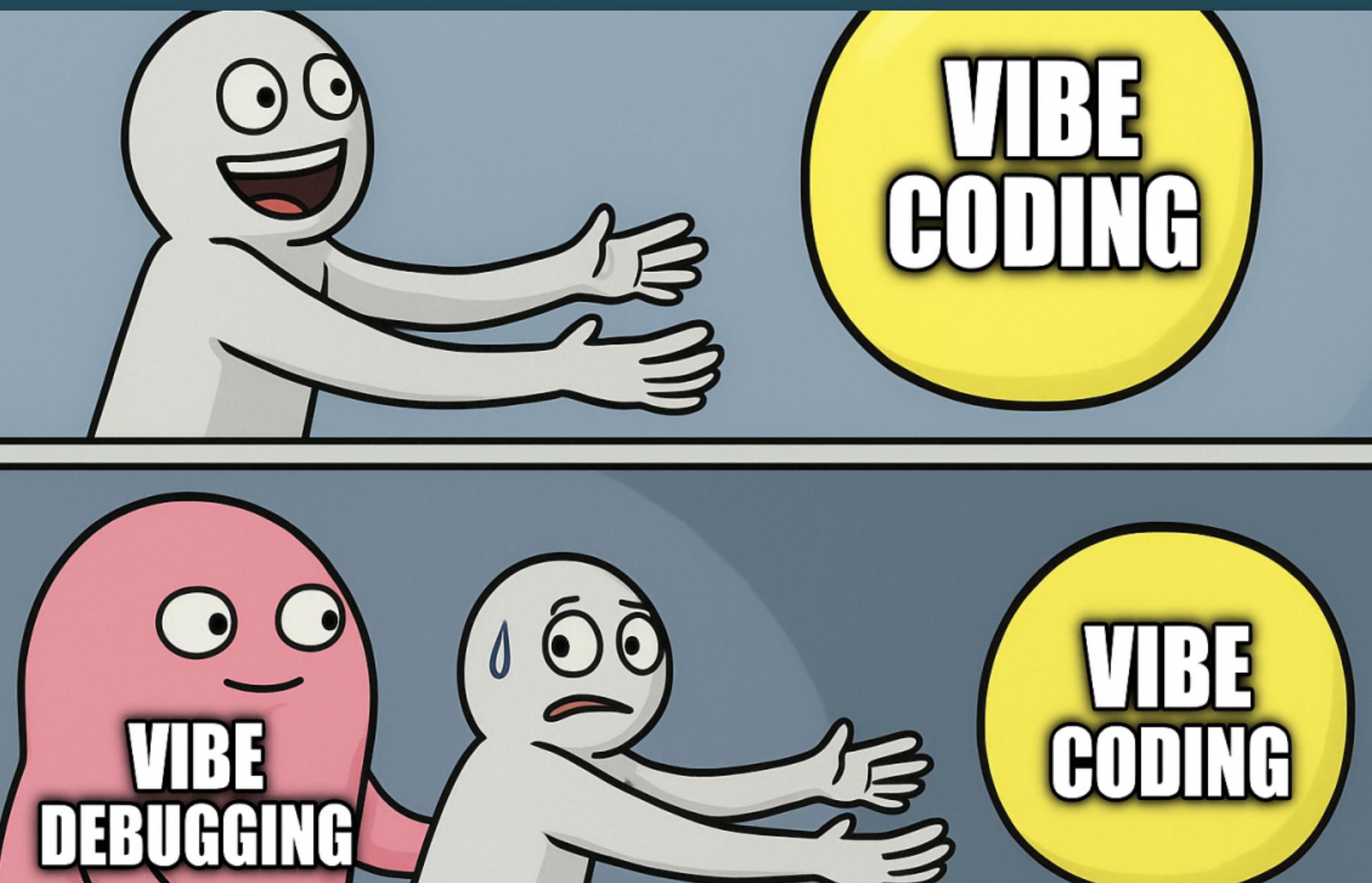
Vibe-coding handler om at kode i flow
– hvor idé, energi og teknologi mødes.

Det er mindre “perfekt kode” og mere
“kreativ proces”.



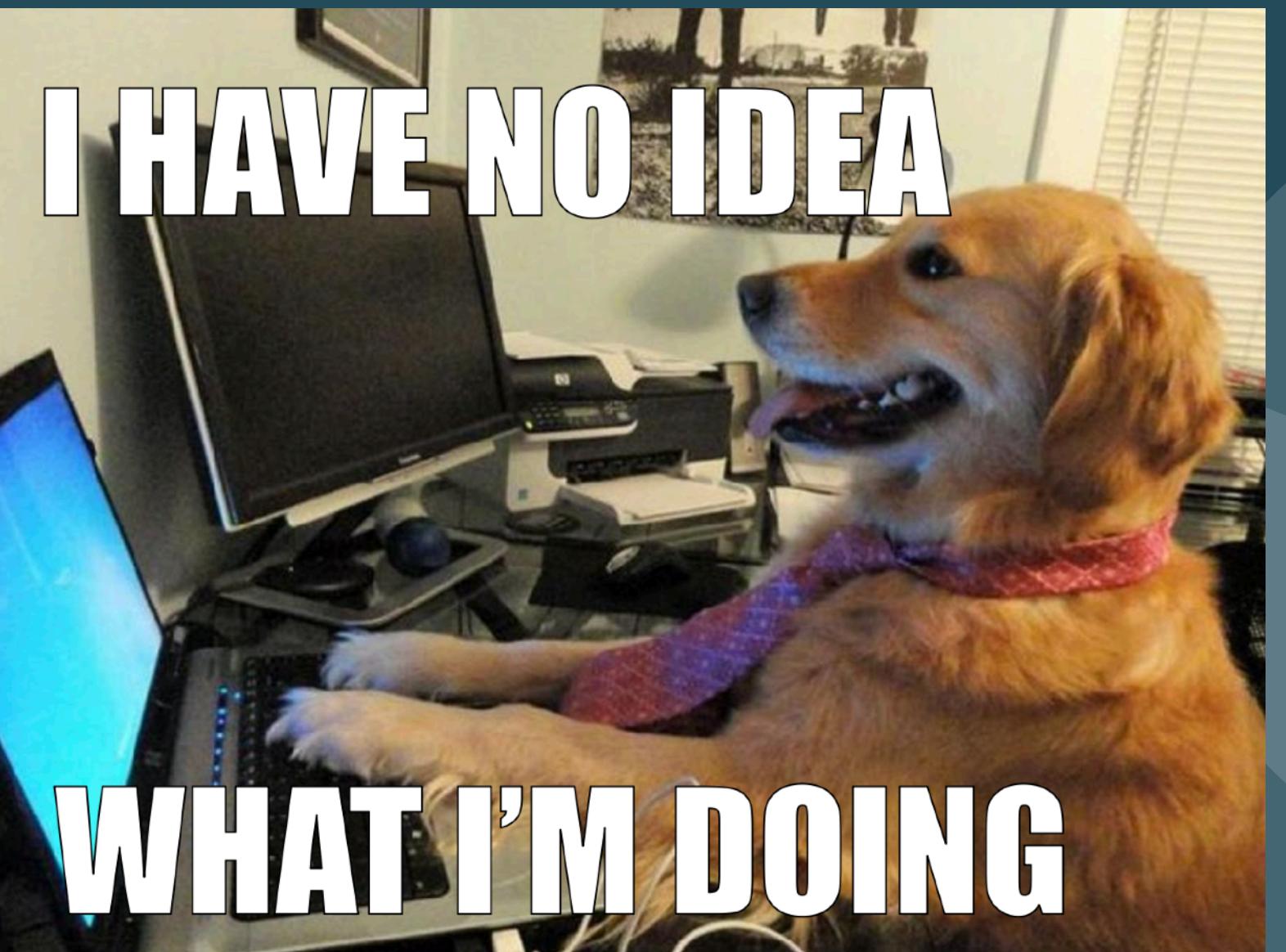
Kernen i vibe-coding

- Fokusér på idé og stemning fremfor perfektion
- Brug AI som kreativ medspiller (Copilot, ChatGPT, osv.)
- Skab hurtige prototyper og “feel the vibe”
- Eksperimentér med kode, design og interaktion i ét flow
- Byg noget du kan mærke – ikke bare noget der “virker”



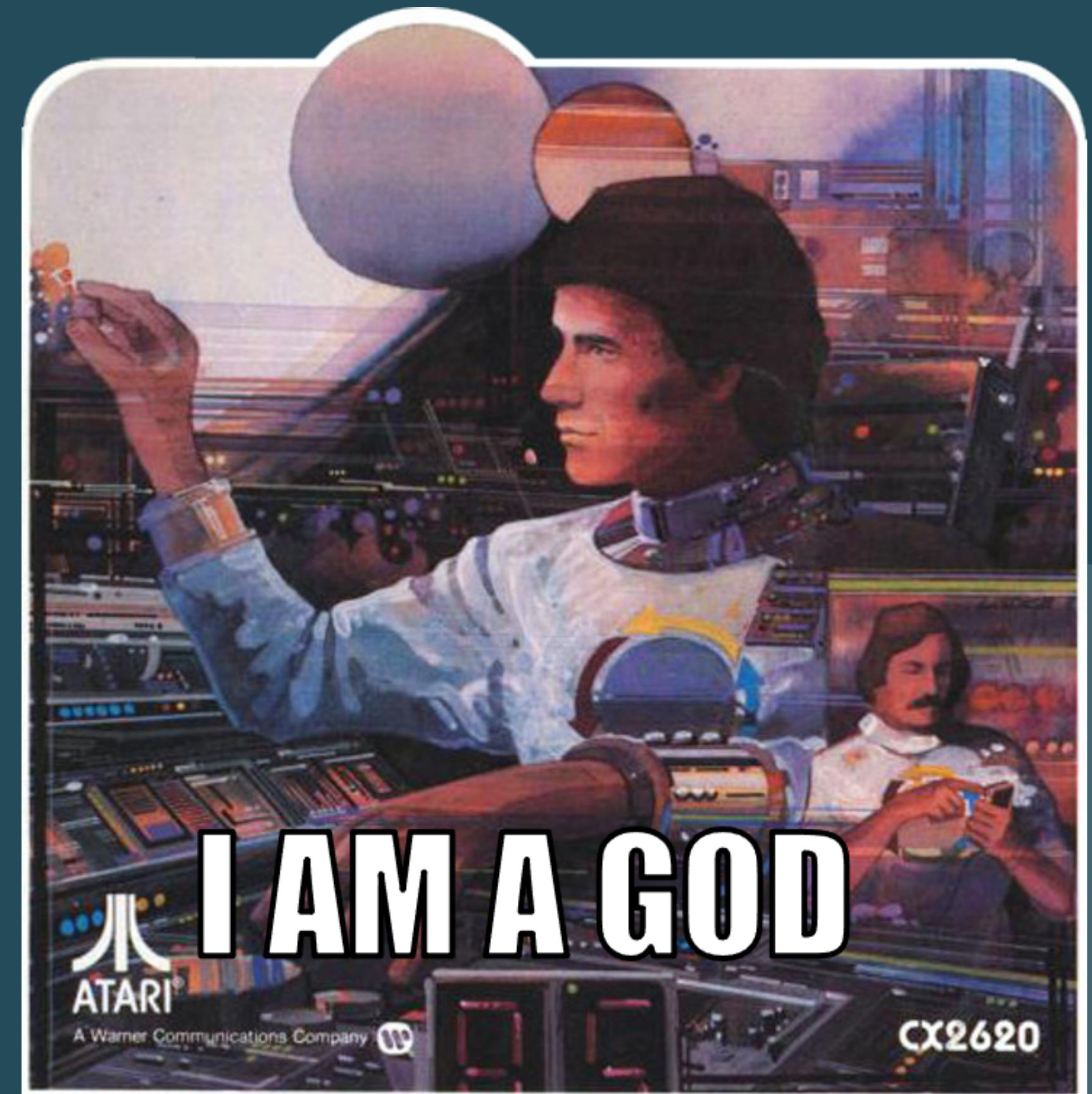
Principper i vibe-coding

- Samarbejd med AI – snak, prompt og justér
- Kod hurtigt, ret bagefter
- Design og kode smelter sammen
- Følg energien – ikke kun opgaven



Formål?!

- At frigøre kreativitet i programmering – så du tør eksperimentere, improvisere og finde din egen stil.



JUST DO IT.

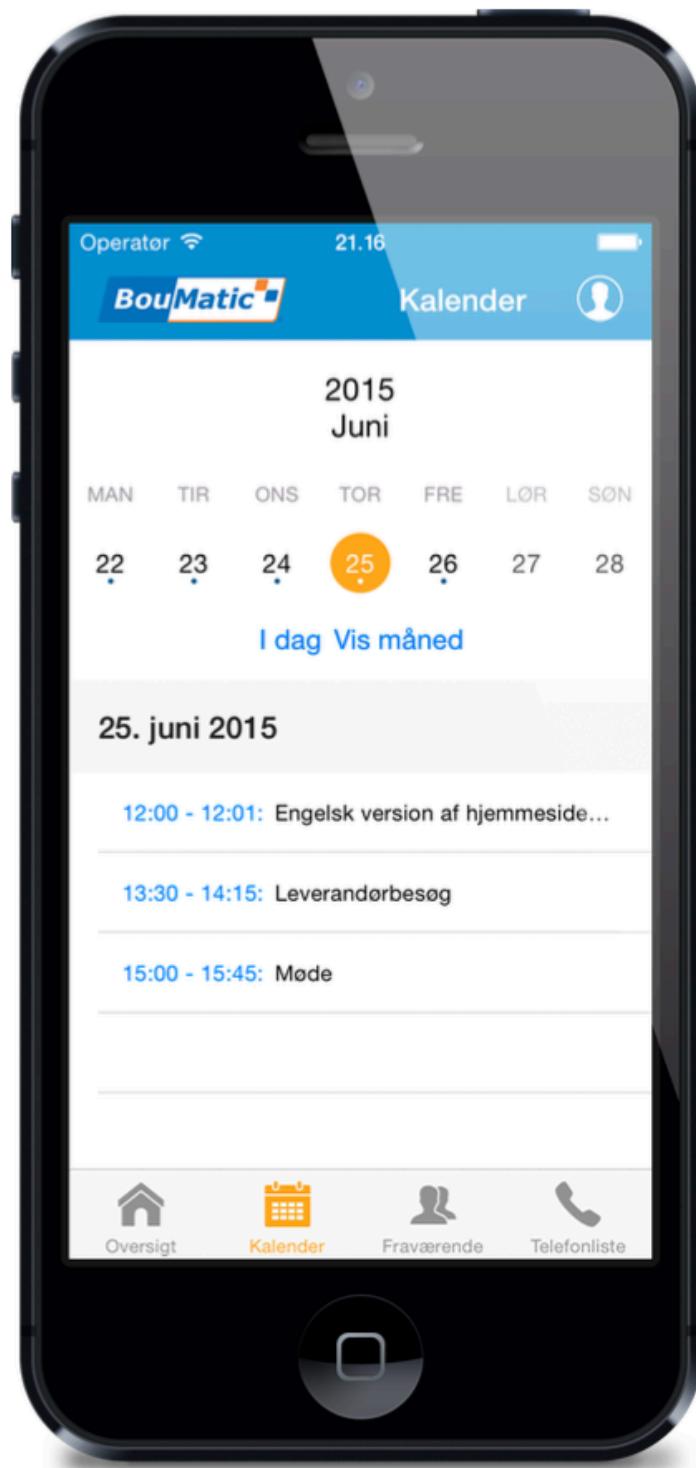
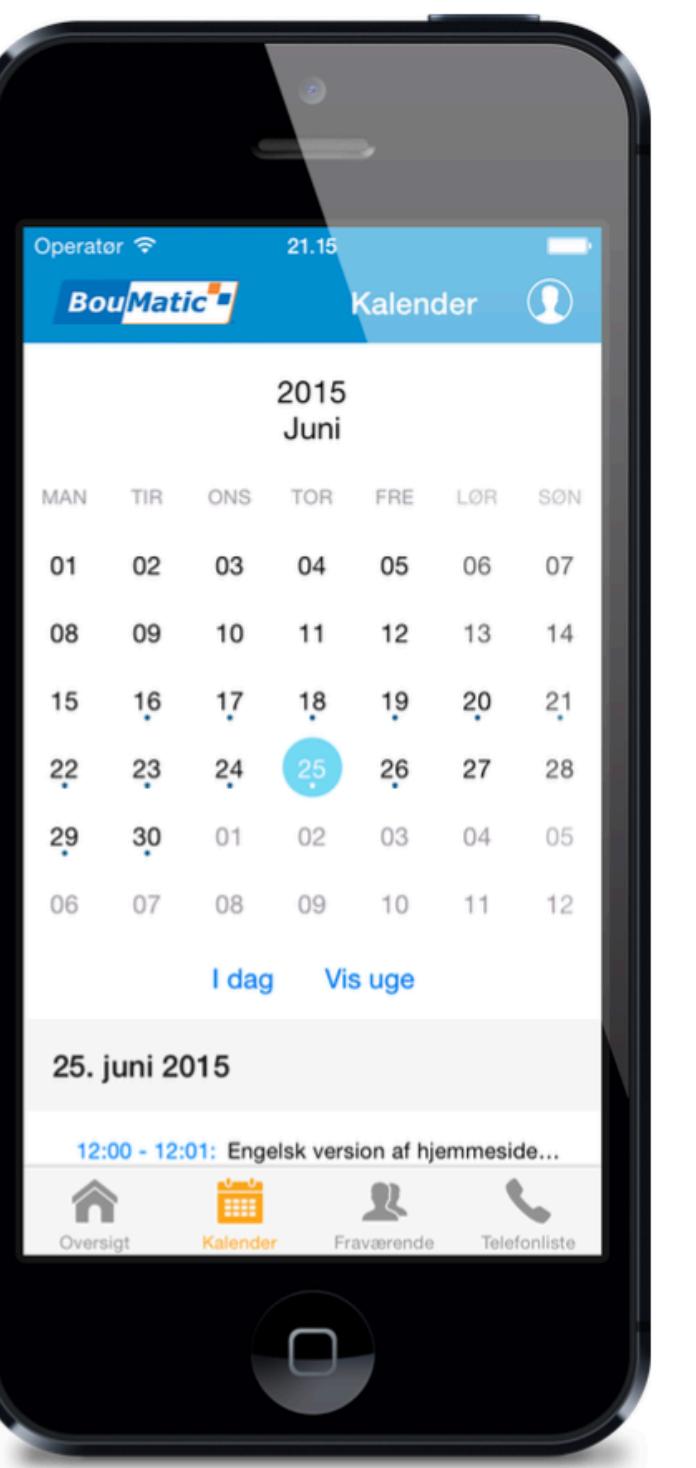
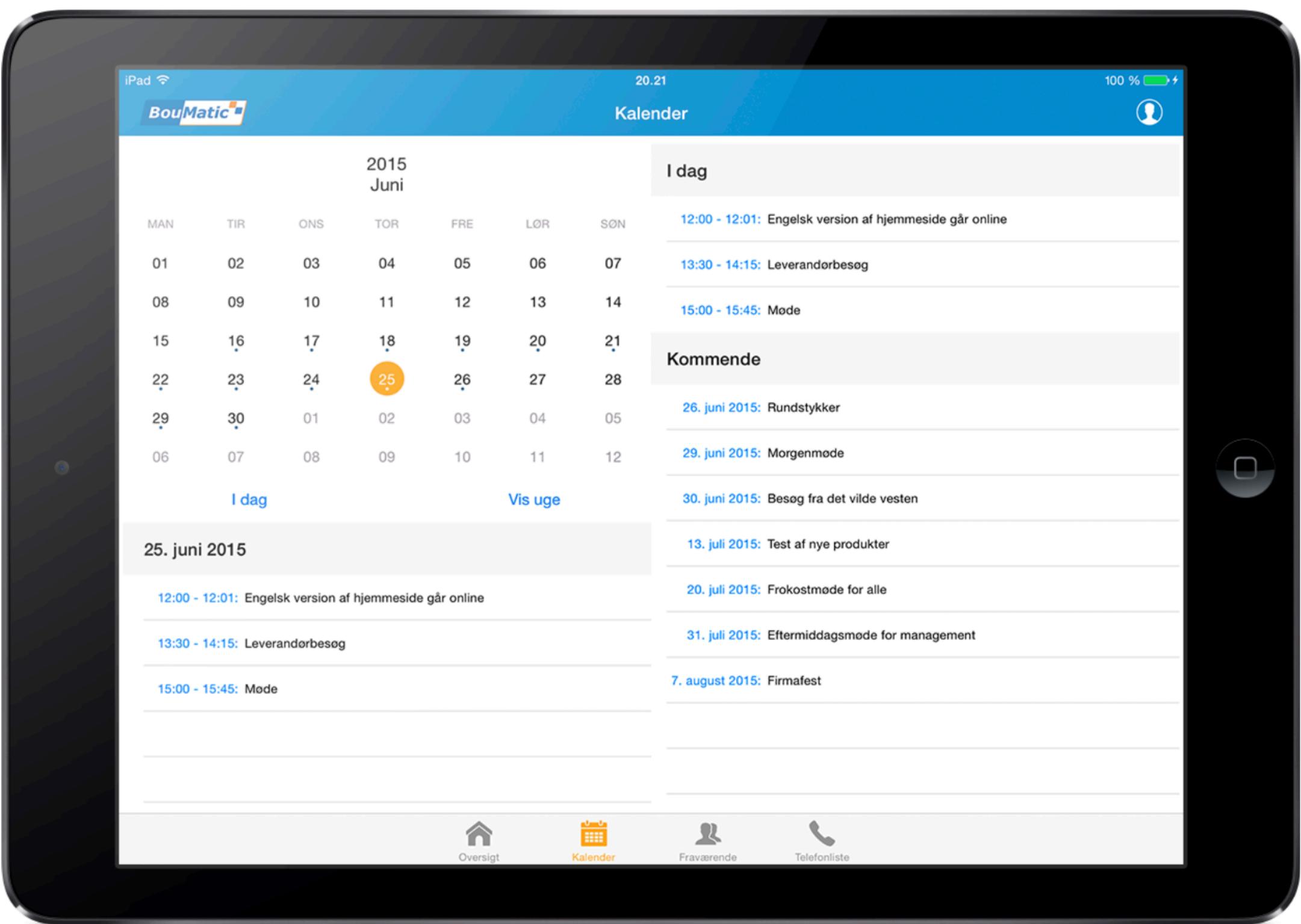


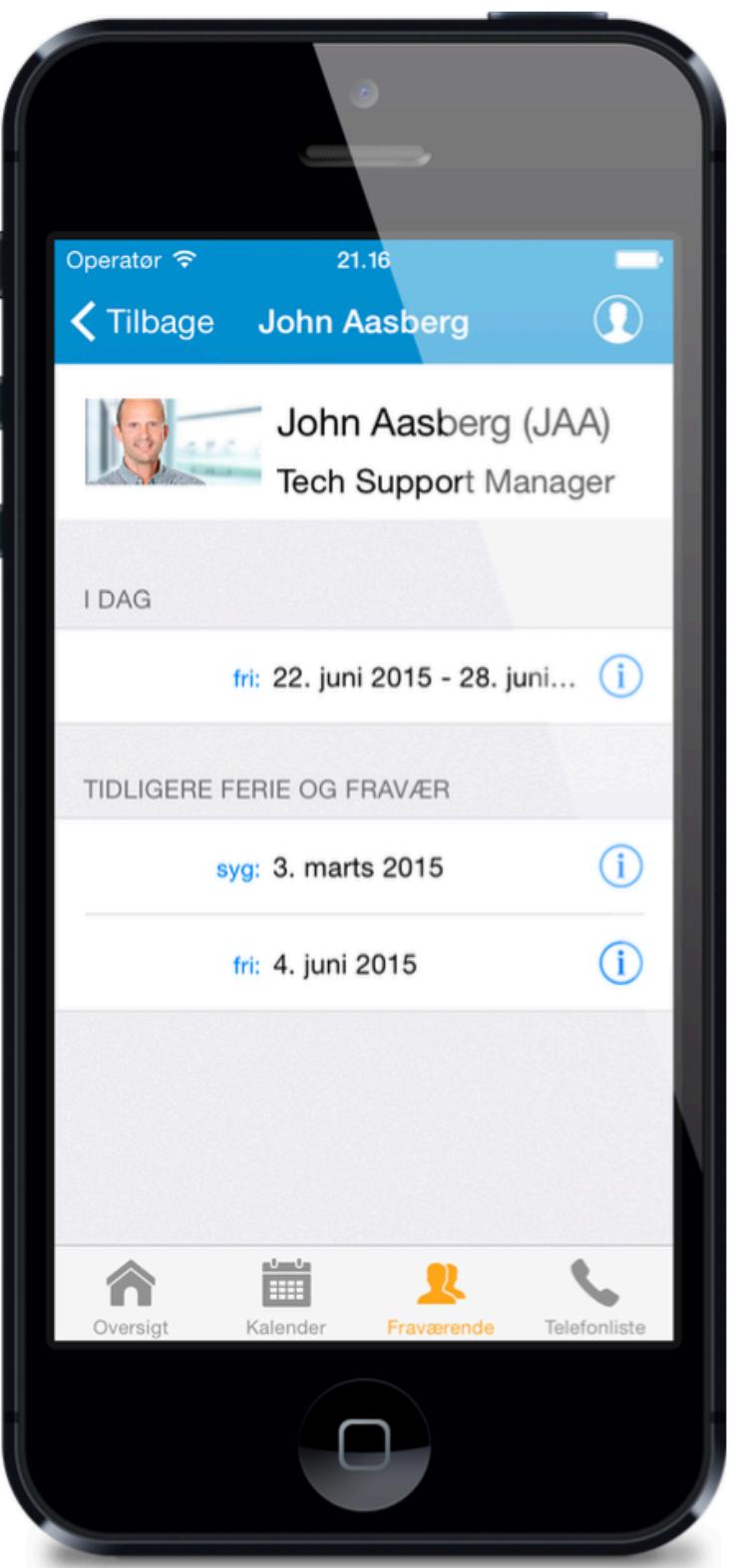
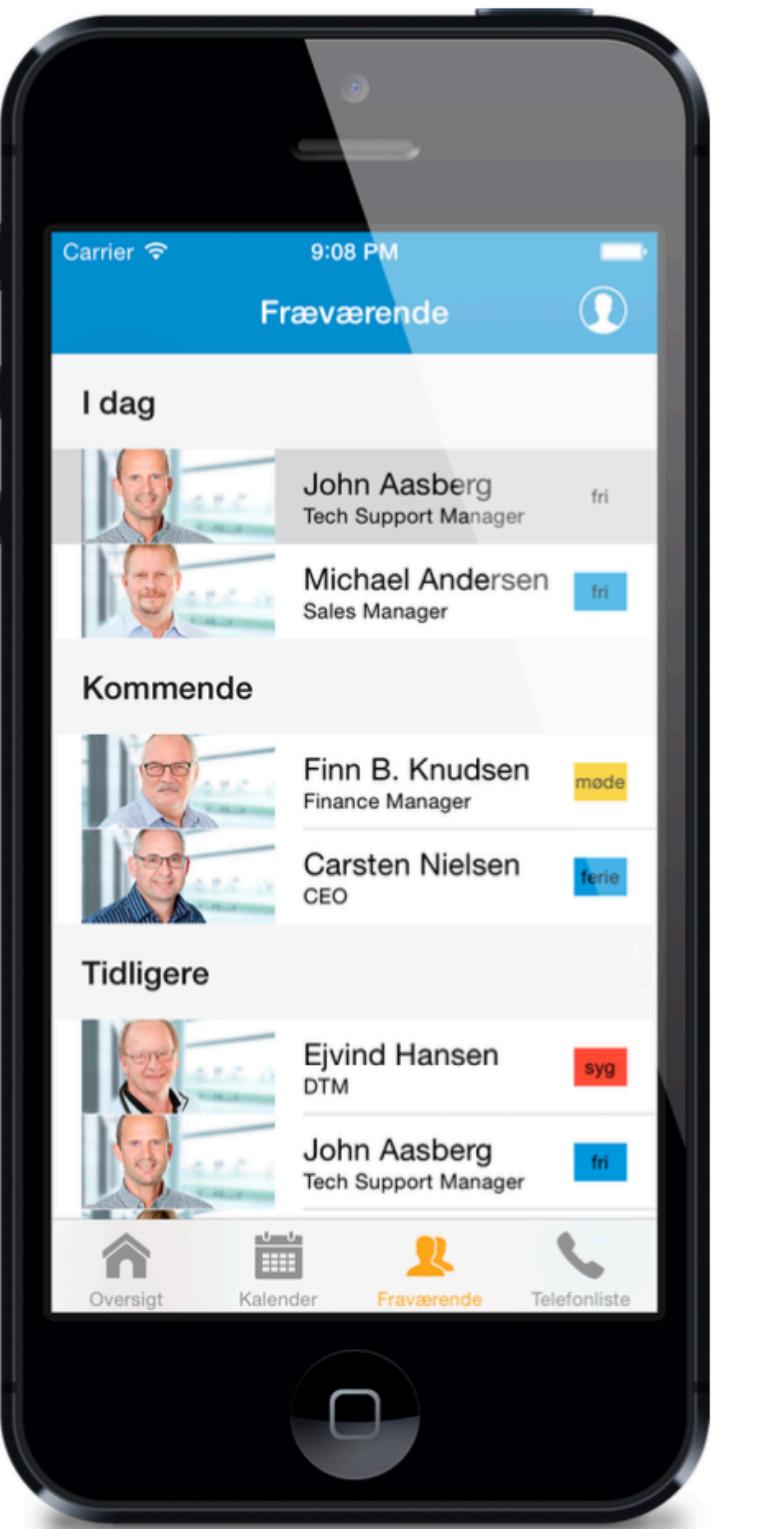
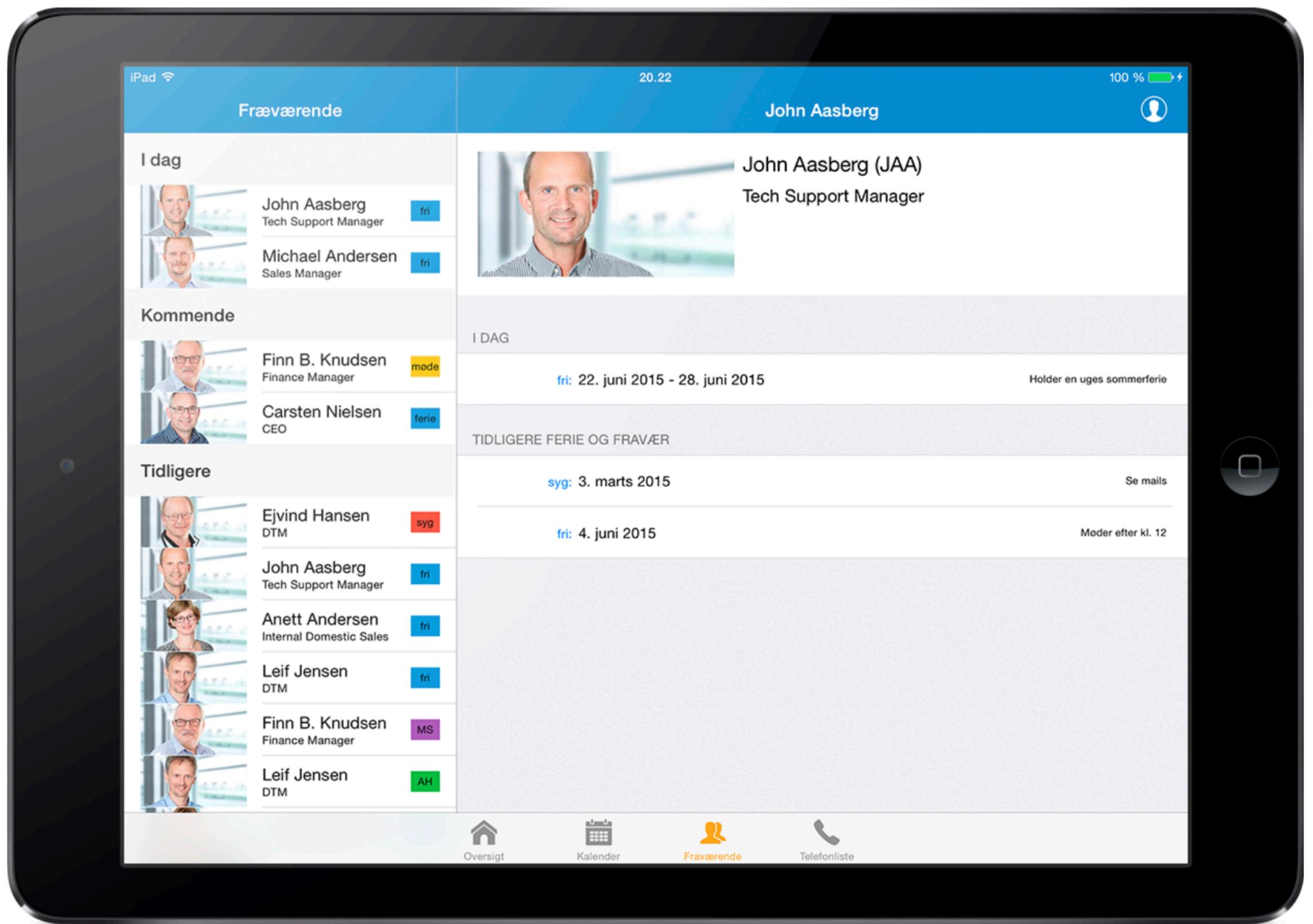
BouTime

De mange versioner og Frameworks
som endte i en Vibe-code-udgave



The image shows an iPad displaying the BouMatic TimeSystem mobile application. The top status bar indicates it's an iPad with signal strength, battery level at 100%, and the time 20.21. The main screen is titled "TimeSystem". It features two large orange buttons at the top: "Kalender" on the left and "Fraværende" on the right, each with a right-pointing arrow. The "Kalender" section displays a list of events for the day: "I dag" (Today) with entries from 12:00 to 15:45. The "Fraværende" section displays a list of absent employees: John Aasberg (Tech Support Manager) and Michael Andersen (Sales Manager), each with a small profile picture and a blue "fr" button. Below these sections are three more: "Kommende" (Upcoming) listing events like "Rundstykker" and "Morgenmøde"; "Tidligere" (Past) listing events like "Besog fra det vilde vesten" and "Firmafest"; and "Telefonliste" (Phone List) which is currently empty. At the bottom of the screen are four navigation icons: a house (Oversigt), a calendar (Kalender), a person (Fraværende), and a phone (Telefonliste).





BouTime

Information

Besøg fra Emmeloord Skjern
Vi får besøg af Clemens Kok, vores QC kollega fra fabrikken i Emmeloord. Clemens vil være her til og med onsdag d.12 og vil komme rundt på fabrikken for at se hvordan vi producere emnerne ned til dem.
10. nov. - 12. nov. 2025
Oprettet: 10. november 2025
A. Jesper Hjorth Pedersen

Besøget af John Kotts Skjern
Vi havde d. 21. oktober besøg af John Kotts i Skjern. Han var meget tilfreds med den udvikling der er sket på vores lokation i Skjern siden han var her sidst. Alt i alt et godt besøg - så stor ros til alle i huset.
24. okt. - 24. nov. 2025
Oprettet: 24. oktober 2025
A. Laila Rewaldt Nielsen

Gæster i Skjern. Skjern
Tirsdag d. 11. November har IT besøg af Mikkel Simonsen fra Kolding og Lex Timmer fra Emmeloord.
11. nov. - 11. nov. 2025
Oprettet: 21. oktober 2025
A. Benny Hansen

Julegaver Kolding og Skjern
Der er sendt link ud til julegavevalg til jeres private mailadresse. Deadline for valg af julegave er d. 21. november 2025.
17. okt. - 22. nov. 2025
Oprettet: 17. oktober 2025
A. Laila Rewaldt Nielsen

Begivenheder

Juleafslutning Skjern Skjern
Vi holder juleafslutning i kantinen Skjern d. 18. december 2025 kl. 09.00 -11.00 i forbindelse med rundstykker.
24. oktober 2025 - 18. december 2025
A. Laila Rewaldt Nielsen 16:00 - 16:00

Juleafslutning i Kolding Kolding
Vi holder juleafslutning i Kolding d. 19. december 2025 kl. 09.00 -11.00 i forbindelse med rundstykker.
24. oktober 2025 - 19. december 2025
A. Laila Rewaldt Nielsen 16:00 - 17:00

Kort informationsmøde med Langtidsrask Skjern
Langtidsrask kommer d. 4. december kl 9.30 - 9.45 for at holde et kort informationsmøde for medarbejdere hos BouMatic i Skjern, om hvad de tilbyder. Det vil foregå i lokalerne udenfor kantinen.
04. december 2025
A. Laila Rewaldt Nielsen 09:30 - 09:45

Fraværende

Bettina Beermann Syg
Syg. Ikke til stede
21. oktober 2025 - 21. december 2025

Susanne B. Jansen Ikke tilstede
Kursus
10. november 2025 - 14. november 2025

Peter Frisenvænge Aagaard Forretningsrejse
PFA Slovakia
10. november 2025 - 15. november 2025

Marianne Pedersen Skjern
Skjern
11. november 2025

Hanne Mortensen Hjemme
arbejder hjemme, ikke tilstede fra 9.00 - 10.15
11. november 2025

Laila Rewaldt Nielsen Førdag
Fri
11. november 2025

Mikkel Simonsen Skjern
Skjern
11. november 2025

Marianne Pedersen Hjemme
Arbejder hjemmefra
11. november 2025

Heidi Hygum Olsen Andet
HHO
kommer kl. 9
11. november 2025

Lilian Ahle Hansen Går tidligt
LAH
Går kl 14.45
11. november 2025

William Schmidt Hjemme
WS
Arbejder hjemme
11. november 2025

Kontakter

BouTime

Kalender

Opret begivenhed

Denne uges begivenheder

Juleafslutning Skjern Skjern
Vi holder juleafslutning i kantinen Skjern d. 18. december 2025 kl. 09.00 -11.00 i forbindelse med rundstykker.
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A. Laila Rewaldt Nielsen 16:00 - 17:00

Besøg af Connie Klindt fra Langtidsrask Skjern
Vi har besøg af Connie Klindt fra langtidsrask fra 12.15 – 12.45 på følgende datoer:
9. september, 7. oktober, 11. november og 9. december. I kan finde hende i kantinen.
11. november 2025
A. Laila Rewaldt Nielsen

Kommende begivenheder

Kort informationsmøde med Langtidsrask Skjern
Langtidsrask kommer d. 4. december kl 9.30 - 9.45 for at holde et kort informationsmøde for medarbejdere hos BouMatic i Skjern, om hvad de tilbyder. Det vil foregå i lokalerne udenfor kantinen.
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04. december 2025
A. Laila Rewaldt Nielsen

Hjem

Information

Kalender

Fraværende

Kontakter

BouTime - BouMatic A/S & SA X Bolt AI builder: Websites, app +

https://bolt.new

Community Enterprise Resources ▾ Careers Pricing

bolt.new

b² Introducing Bolt V2

What will you **build** today?

Create stunning apps & websites by chatting with AI.

Let's build a dashboard to track KPIs for...

+ Claude Agent Plan Build now ➔

or import from Figma GitHub

bolt

Resources

- Support ↗
- Blog ↗
- Gallery ↗
- Status ↗

Company

- Careers
- Privacy
- Terms

Social

- Discord
- LinkedIn
- YouTube
- Twitter/X
- Instagram
- Reddit

Profile icon

Logout icon

This screenshot shows the bolt.new website builder interface. The main heading is "What will you **build** today?" with the subtitle "Create stunning apps & websites by chatting with AI.". Below this is a dark-themed workspace with a text input field containing "Let's build a dashboard to track KPIs for...". To the left is a sidebar for "Claude Agent" with a "+ Add" button, a "Plan" button, and a "Build now ➔" button. At the bottom of the workspace are links to "Figma" and "GitHub" for importing designs. The footer contains the bolt logo, navigation links for "Resources" (Support, Blog, Gallery, Status), "Company" (Careers, Privacy, Terms), and "Social" media links (Discord, LinkedIn, YouTube, Twitter/X, Instagram, Reddit). It also includes a user profile icon and a "Logout" icon.

BouTime - BouMatic A/S & SA b BouTime - Bolt.new

https://bolt.new/~sb1-qss4ren1

b / / BouTime

When creating a new event, please ensure the start date is set to today in the ui.

bolt

I'll update the CreateEventModal to set the start date to today by default when creating a new event.

Set default start date to today for new events

✓ Update `src/components/modals/CreateEventModal.tsx`

✓ Start application

`npm run dev`

Perfect! Now when creating a new event, both the start date and end date will default to today's date, making it much more convenient for users to create events without having to manually select the current date.

Set default start date to today f... Version 226

Also, ensure the end date is never lower than the start date

bolt

How can Bolt help you today? (or /command)

+ Select Switch to Claude Agent Discuss

Files Search

src > components > modals > `CreateEventModal.tsx`

```
1 import React, { useState, useEffect } from 'react';
2 import { X, Calendar, Clock, MapPin, Repeat, Plus, Trash2 } from 'lucide-react';
3 import { Modal } from '../shared/Modal';
4 import { addDoc, collection, updateDoc, doc, deleteDoc } from 'firebase/firestore';
5 import { db } from '../../../../../lib/firebase';
6 import { useAuth } from '../AuthProvider';
7 import { canCreateEditEventsNews } from '../../../../../lib/auth';
8 import { format, parseISO } from 'date-fns';
9 import { da } from 'date-fns/locale';

10 interface Event {
11   id: string;
12   title: string;
13   description: string;
14   start: string;
15   end: string;
16   location: string;
17   allDay: boolean;
18   repeat?: {
19     type: "weekly" | "monthly" | "yearly" | "none";
20     interval?: number;
21     until?: string;
22     weekdays?: number[];
23     monthlyPattern?: "date" | "weekday";
24     ordinalWeekdays?: Array<{
25       ordinal: number;
26       weekday: number;
27     }>;
28   };
29 }
30 createdBy?: string;
31 }

32 interface CreateEventModalProps {
33   isOpen: boolean;
34   onClose: () => void;
35   event?: Event;
36 }
37 }
```

~/project
npm install
added 484 packages in 3s
80 packages are looking for funding
run `npm fund` for details

~/project 3s
npm run dev

The screenshot shows a developer's workspace in a dark-themed IDE. On the left, the Explorer sidebar displays the project structure for 'BOUTIME-V4', including files like `firebase.ts`, `App.tsx`, and `index.css`. The `src/pages/Home.tsx` file is open in the main editor, showing code that fetches absences from a Firebase collection, applies client-side filtering, and sorts them by start date.

The code in `Home.tsx`:

```
46  export function Home() {
102    useEffect(() => {
119      }, []);
120
121      // Fetch absences with optimized query
122      useEffect(() => {
123        const today = new Date();
124        const todayISO = startOfDay(today).toISOString();
125
126        const absencesRef = collection(db, "absences");
127        const q = query(absencesRef, where("end", ">=", todayISO), orderBy("end", "asc"))
128
129        const unsubscribe = onSnapshot(q, snapshot => {
130          const fetchedAbsences = snapshot.docs.map(doc => ({
131            id: doc.id,
132            ...doc.data()
133          }) as Absence[]);
134
135          console.log("Fetched absences:", fetchedAbsences);
136
137          setAbsences(fetchedAbsences);
138          setLoading(prev => ({ ...prev, absences: false }));
139        });
140
141        return () => unsubscribe();
142      }
143    }
144  }
145
146  return (
147    <div>
148      <h1>Boutime</h1>
149      <h2>Absences</h2>
150      <table>
151        <thead>
152          <tr>
153            <th>Employee</th>
154            <th>Start Date</th>
155            <th>End Date</th>
156            <th>Reason</th>
157          </tr>
158        </thead>
159        <tbody>
160          <tr>
161            <td>John Doe</td>
162            <td>2023-10-01</td>
163            <td>2023-10-02</td>
164            <td>Illness</td>
165          </tr>
166        </tbody>
167      </table>
168    </div>
169  )
170
```

The terminal at the bottom shows a log entry from Vite:

```
8:37:24 PM [vite] hmr update /src/pages/Home.tsx, /src/index.css (x6)
* History restored
```

A chat interface on the right side of the screen discusses the requirements for displaying both active and future absences:

- Message 1: jeg vil gerne sikre at alt aktivt fravær vises på forsiden. Også kommende fravær. Giver det mening? (Home.tsx:124)
- Message 2: Ja, det giver mening at vise både aktivt og kommende fravær på forsiden. Lige nu filtrerer din kode korrekt for at inkludere både aktivt fravær (som er i gang nu) og kommende fravær (som starter i fremtiden). (Home.tsx:124)
- Message 3: Din nuværende kode i `Home.tsx` gør allerede det rigtige:
 1. **Firebase query** filtrerer kun fravær hvor slutdatoen er i dag eller senere: `where("end", ">=", todayISO)`
 2. **Client-side filtering** i `categorizeAbsences` sikrer også at kun relevante fravær vises:

```
if (endDate >= today) {
  allAbsences.push(absence);
}
```
 3. **Sortering** sker efter startdato, så aktivt fravær kommer først.
- Message 4: Dette betyder at forsiden viser:
 - **Aktivt fravær**: Folk der er fraværende lige nu
 - **Kommende fravær**: Folk der skal være fraværende snart
- Message 5: Koden ser korrekt ud og skulle vise alle relevante fravær. Er der noget specifikt fravær du ikke kan se, eller vil du have ændret hvordan det vises?