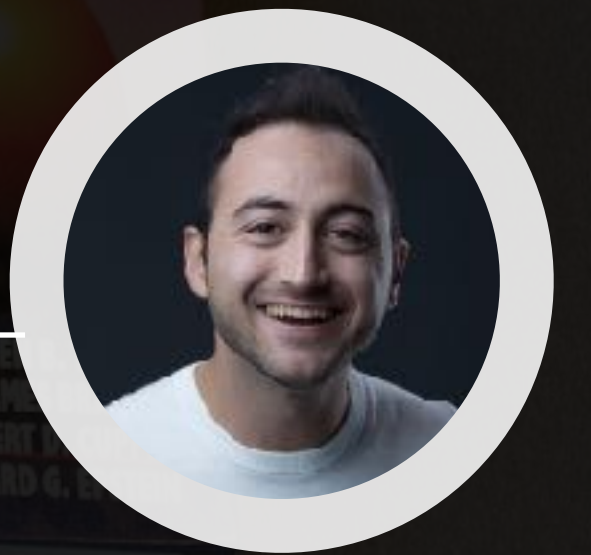


The (Abundant) State of the web

JAD JOUBRAN - JADJOURBAN.IO



[X.com/joubranjad](https://x.com/joubranjad)

[instagram.com/Jad.of.all.Trades](https://www.instagram.com/Jad.of.all.Trades)

[YouTube.com/JadJoubran](https://www.youtube.com/JadJoubran)

WHAT I DO FOR WORK

Learning platform

250,000+ students

LearnJavaScript.online

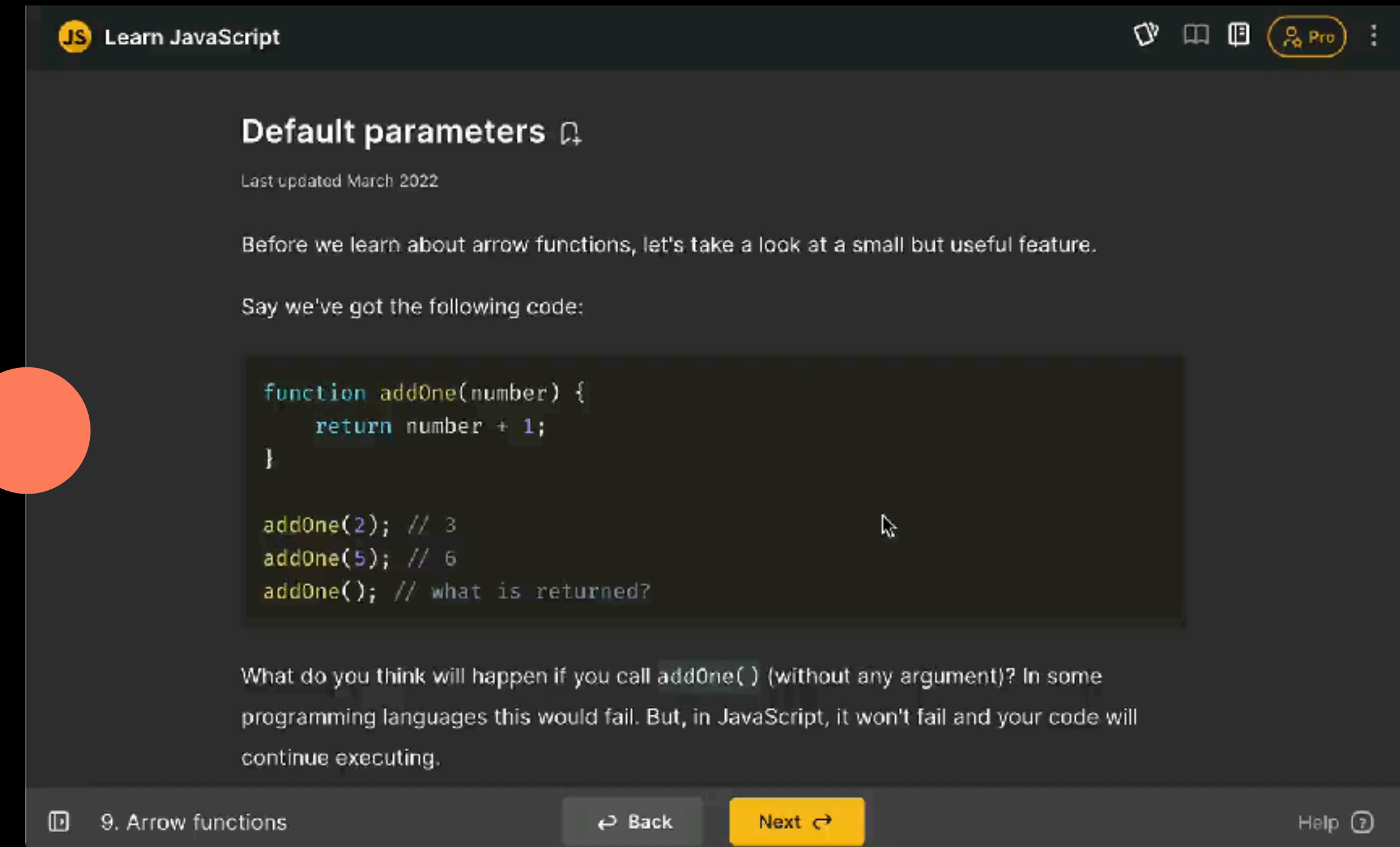
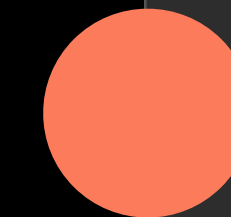
LearnTypeScript.online

LearnHTMLCSS.online

LearnProgramming.online

React-Tutorial.app

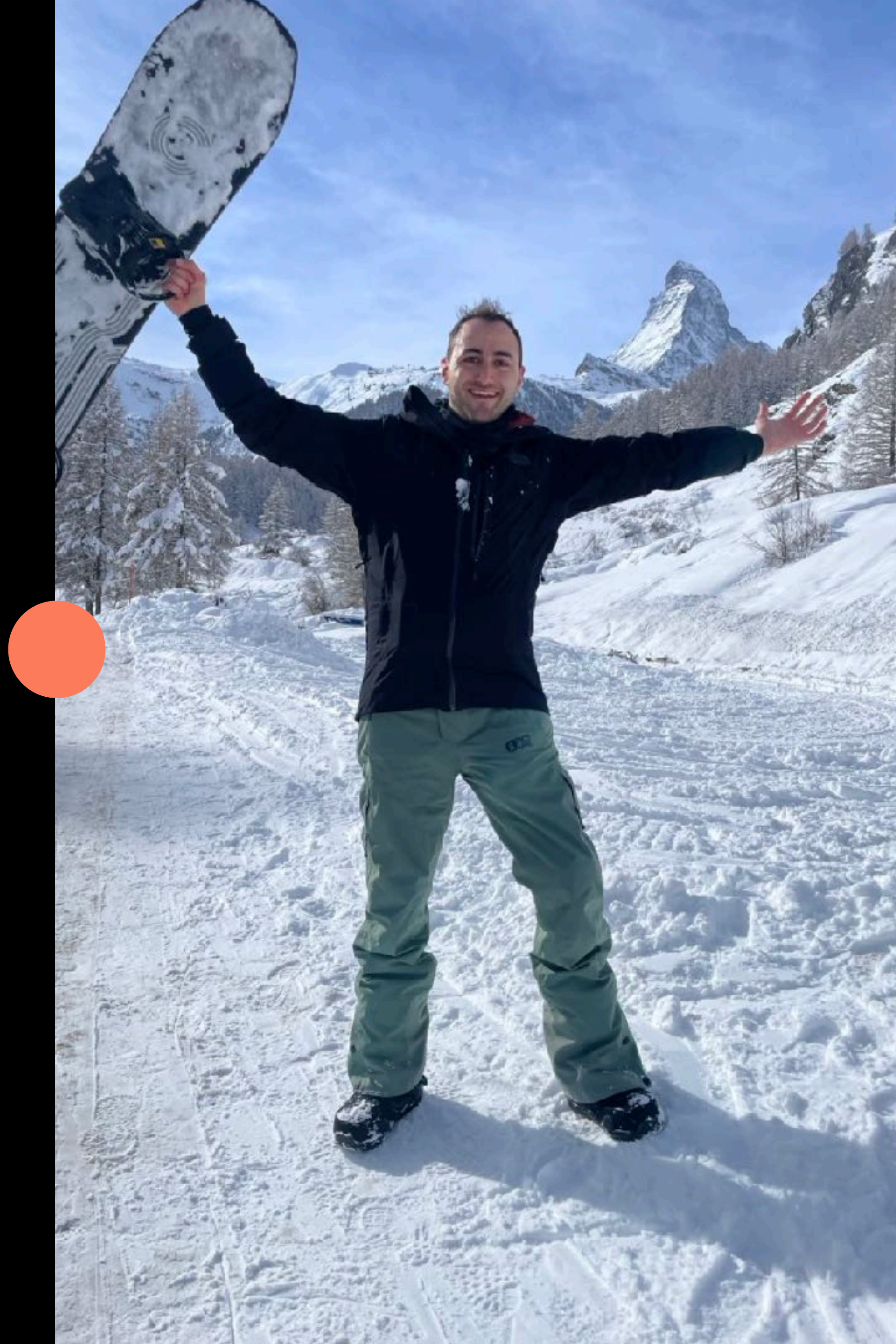
JavaScript/Web Performance Consulting



WHAT I DO FOR FUN

Snowboarding

Yoga, hiking, bouldering, and cycling



DUTCH MOUNTAIN TRAIL: DE ENIGE ECHTE BERGWANDELTOCHT IN NEDERLAND

[Deel pagina](#)

Op de Dutch Mountain Trail waan je je in de bergen, maar dan dichtbij huis. Een pittige bergwandeling langs de hoogste toppen in de regio. Een 101 km lange route door alpenweides, langs snelstromende beken, rotswanden en met spectaculaire vergezichten vanaf elke top. Oostenrijk? Nee, Zuid-Limburg!



[TERUG NAAR OVERZICHT](#)

[ALLES OVER BERGWANDELEN](#) >

[HUTTENKORTING](#) >

[NKBV-LIDMAATSCHAP](#) >

[REISVERZEKERING](#) >

TIPS VOOR BERGWANDELEN MET KINDEREN

[Bekijk de
whitepaper](#)





WIENGETSKE

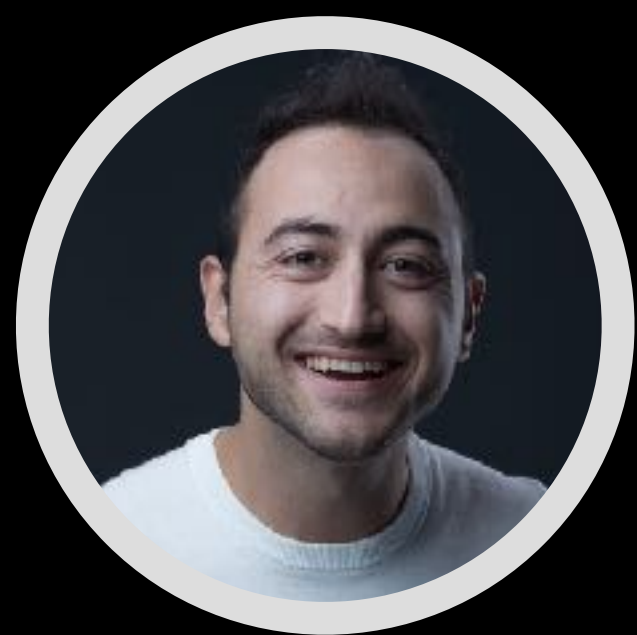
route des vins

LIMBURGSE WIJNROUTE NL



VS.





vs.

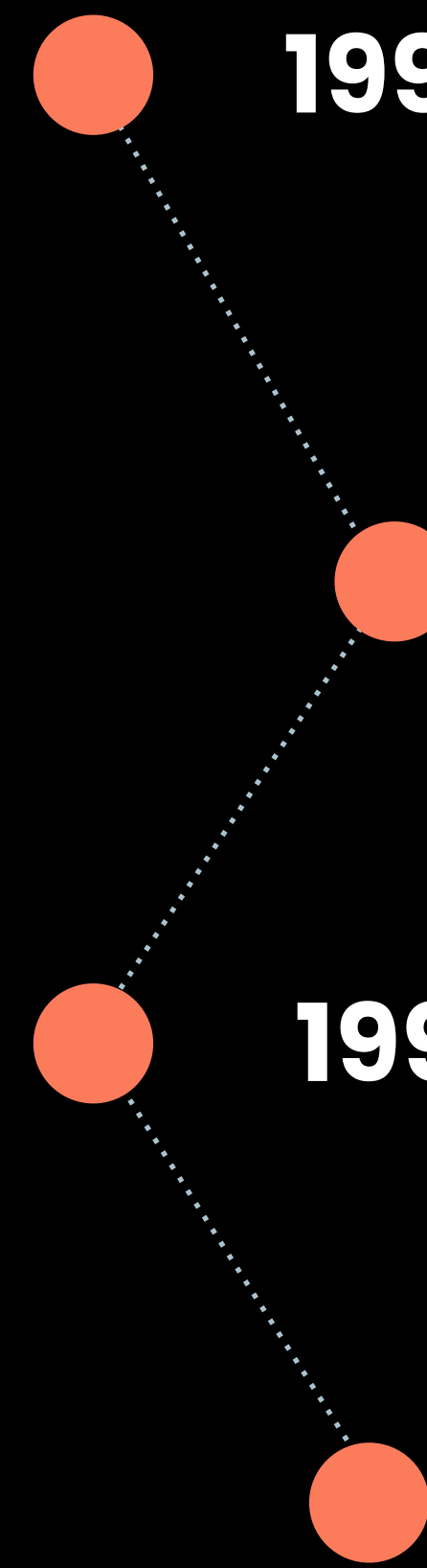


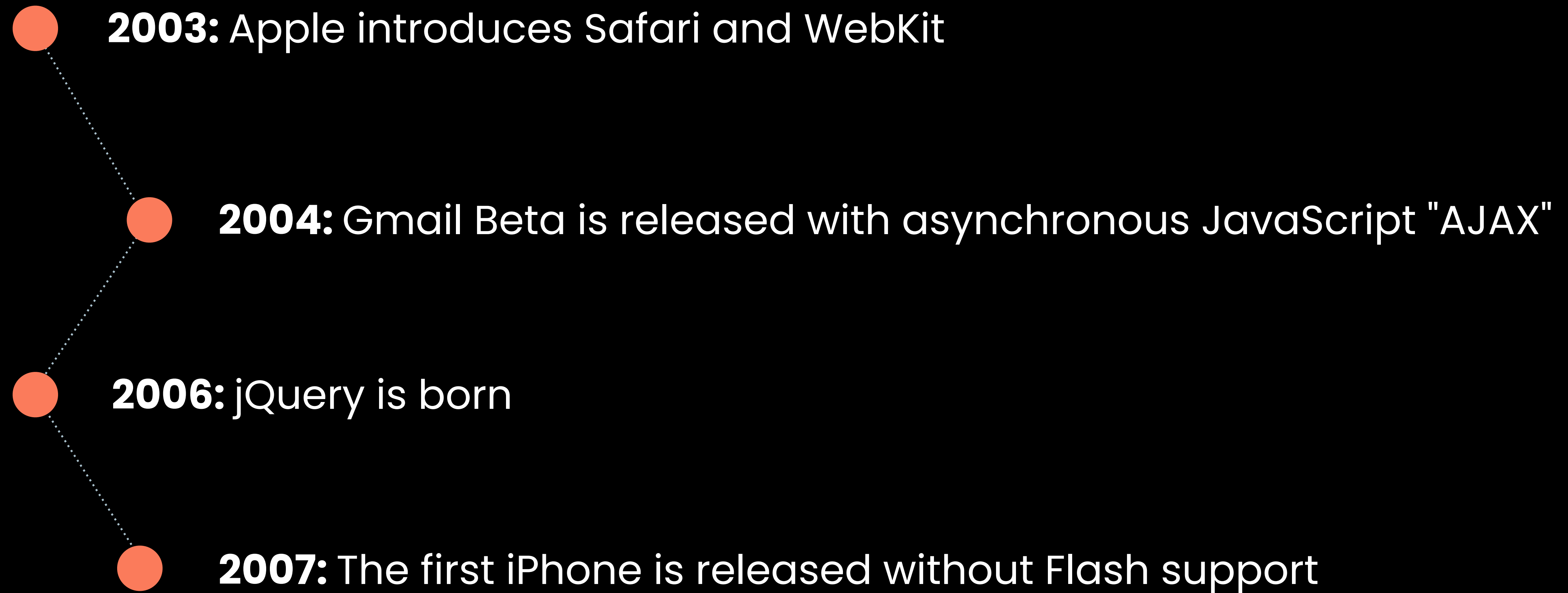
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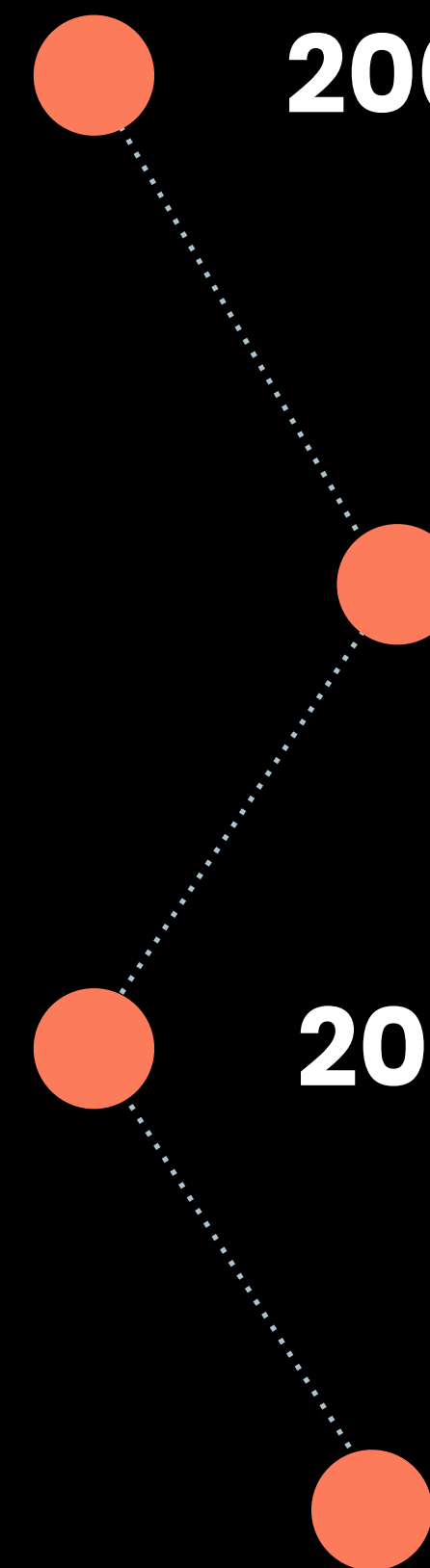
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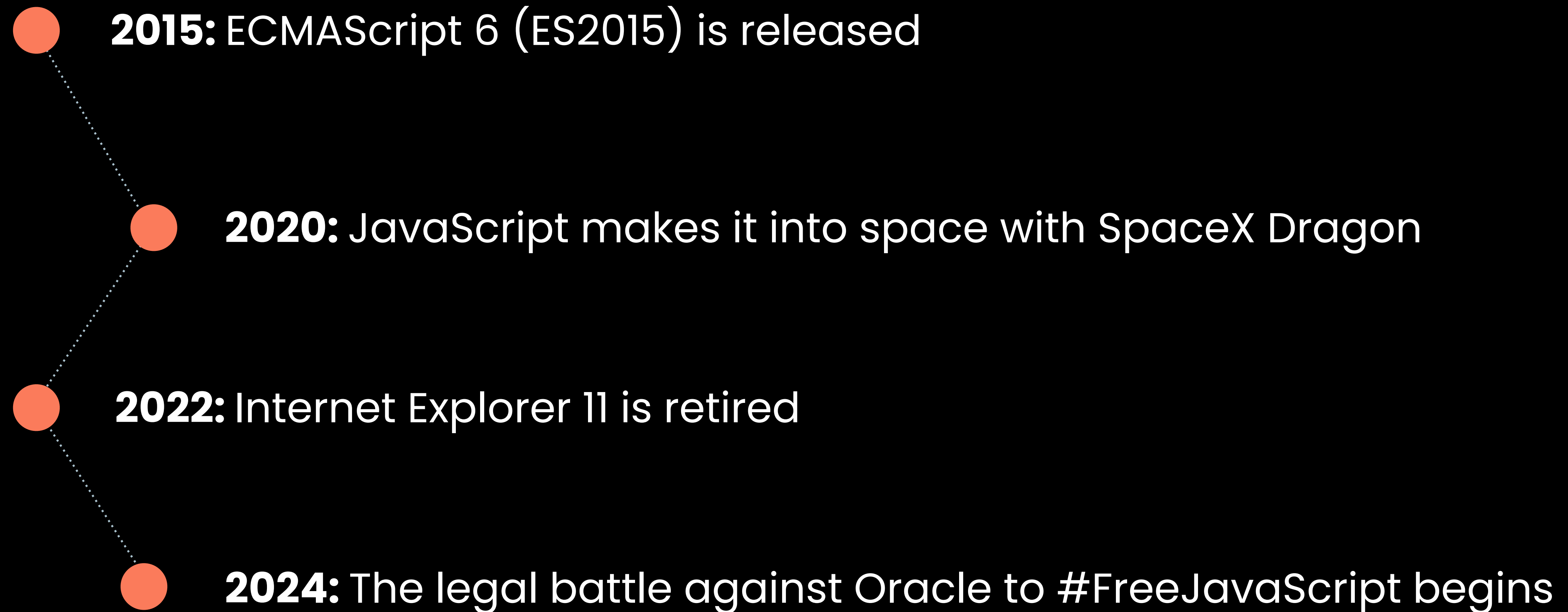


Source: deno.com/blog/history-of-javascript

- 
- **1995:** Brendan Eich creates the very first version of JavaScript in 10 days
 - **1996:** Microsoft introduces JScript in Internet Explorer 3
 - **1997:** Netscape submits JavaScript to ECMA International (trademark issues)
 - **1999:** Microsoft releases IE 5 with even more proprietary technology

- 
- **2003:** Apple introduces Safari and WebKit
 - **2004:** Gmail Beta is released with asynchronous JavaScript "AJAX"
 - **2006:** jQuery is born
 - **2007:** The first iPhone is released without Flash support

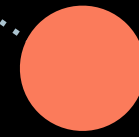
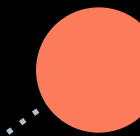
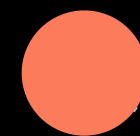
- 
- **2008:** Google releases Chrome browser, the fastest web browser at the time
 - **2009:** Ryan Dahl begins work on Node.js
 - **2012:** Microsoft makes TypeScript 0.8 available for the public
 - **2013:** First version of React is released

- 
- **2015:** ECMAScript 6 (ES2015) is released
 - **2020:** JavaScript makes it into space with SpaceX Dragon
 - **2022:** Internet Explorer 11 is retired
 - **2024:** The legal battle against Oracle to #FreeJavaScript begins

The Web has come a long way

Developer Experience

Native Capabilities



User Interface

Developer Experience

Baseline

<dialog>: The Dialog element



Baseline

This

been

[Learn](#)

Subgrid



Baseline 2022

Since September

This feature is

[Learn more](#)

Document Picture-in-Picture API



Limited availability



This feature is not Baseline because it does not work in some of the most widely-used browsers.

[Learn more](#)

[See full compatibility](#)

[Report feedback](#)

Want to dive deeper? Check out webstatus.dev

light-dark()

light-dark(light-color, dark-color)

Works in combination with the color-scheme property

```
:root {  
  color-scheme: light dark;  
}  
  
body {  
  background-color: light-dark(white, black);  
}
```


CSS Layers

Declare cascade layers and define order of precedence

```
@layer base, component, page;

@import url("components/_base.css") layer(base);

@import url("components/typography.css") layer(component);
@import url("components/helpers.css") layer(component);
@import url("components/buttons.css") layer(component);
@import url("components/forms.css") layer(component);
@import url("components/cards.css") layer(component);

@import url("pages/signin.css") layer(page);
@import url("pages/profile.css") layer(page);
```


Container queries

Style an element based on the size of its containing parent element

Card



Plan your vacation

Why not take some time off and go on vacation? Use our unique tools to plan your next vacation!




```
<div class="card-container">
  <div class="card"></div>
</div>
<style>
  .card-container {
    container: card / inline-size;
  }
  @container card (max-width: 25rem) {
    .card {
      flex-direction: column;
    }
  }
</style>
```


Web Components

Most prevalent use case: Share UI components between frameworks

Low-level primitives or use Lit (lit.dev), which costs 6kb (min+gzipped)

```
<app-button variant="floating">New</app-button>
```


User Interface

<dialog>

dialog.showModal()

::backdrop { }

Modal mode rendered in the Top Layer

```
<!DOCTYPE html>
<html lang="en" class="modal-open">
  ▶ <head> ⋮ </head>
  ▶ <body> ⋮ </body>
</html>
▼ #top-layer
  ▶ ↵ dialog reveal
```


:has() selector

Parent-level styling based on child or sibling content

Unlocks many interesting use cases

```
body:has(dialog[open]) {  
  overflow: hidden;  
}
```



Baseline 2023

NEWLY AVAILABLE

:scroll-state() selector

Selectively apply styles based on the container's scroll state

3 types: scrollable, snapped, and stuck

```
@container my-header scroll-state(stuck: top) {  
  .my-header {  
    opacity: 0.8;  
  }  
}
```


Customisable <select>

Finally. Yes. For real.

[Live demo](#) from Una Kravets

Native carousels

What? Really? Yes.

[Live demo](#) from Adam Argyle

[Carousel gallery](#)

Scroll-driven animations

Animate properties based on a scroll-based timeline

[Progress indicator + code](#) from Bramus van Damme

[Cover to fixed header + code](#) from Bramus van Damme

[Shrinking header + code](#) from Bramus van Damme

Native capabilities

View Transitions

Efficiently create animated transitions between two different states.

Decent SPA support. Limited MPA support.

[Demo](#) from Jake Archibald

```
document.startViewTransition(() => {  
  heroImg.classList.add("full-size");  
});
```

Document Picture-in-Picture

Open a floating, always-on-top window that can display arbitrary HTML

Use case by yours truly

Speculation rules

Prefetch or preload documents

[Live demo \(+ MPA view transitions\)](#) by yours truly

```
<script type="speculationrules">{  
  "prerender": [  
    {  
      "source": "list",  
      "urls": ["app.html"]  
    }  
  ]  
}</script>
```

File System Access API

Interact with files on the user's local device (IDE, photo/video editor, etc.)

[Live demo](#) by Mehmet

```
button.addEventListener("click", async () => {  
  const [fileHandle] = await window.showOpenFilePicker();  
  const file = await fileHandle.getFile();  
  const contents = await file.text();  
});
```


(Declarative) Web Push

Varying requirements and browser support

Apple's Declarative API enforces the `userVisibleOnly` promise

What does this all mean?

Beyond the inflection point

We went from scarcity to abundance

We are no longer constrained by the web

The web has unprecedented power in reaching the customers of today & tomorrow

Inflection point in the age of AI

It has become easier than ever to build a website/webapp

You must work harder on your Unique Value Proposition

All these features open a wide variety of use cases

How to learn all of this in the age of AI?

It's important to be educated on the capabilities of the web

Syntax has become less important

Wide knowledge is still important (Performance, UX, Accessibility)

(Progressive) Web Apps

Apple implemented "Web Apps" with Web Push support

We're in an ecosystem where no single platform has won (android/iOS/web)

The web continues evolving beyond a collection of pages into a platform for rich, app-like experiences.



Happy learning,
testaccountalt



0

day streak

Today: 1/10



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Practice flashcards

2

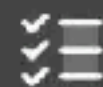
00:00

Answer questions based on the topics you are learning in the course.



Review flashcards

Refresh your memory by answering questions you've previously tackled.



Explore chapters

1. Basic Functions

2. Strings I

Live code or it didn't happen...

Gemini

2.5 Pro (preview) ▼

Create a landing page for the Dutch Mountain Trail where there's a section for each...

✦ Show thinking ▼

Okay, I can help you create a modern and sleek landing page for the Dutch Mountain Trail! This page will highlight the "Seven Summits" of the trail, each with a brief description, and will be built using HTML and Tailwind CSS for a responsive and accessible design.

I'll use a deep green as the primary color, evoking nature, and a warm amber as an accent color. The design will be minimal and focus on readability and a pleasant user

Ask Gemini



Video



Deep Research



Gemini can make mistakes, including about people, so double-check it.
[Your privacy & Gemini](#)

Dutch Mountain Trail Page with...



Code

✓ Preview

Share



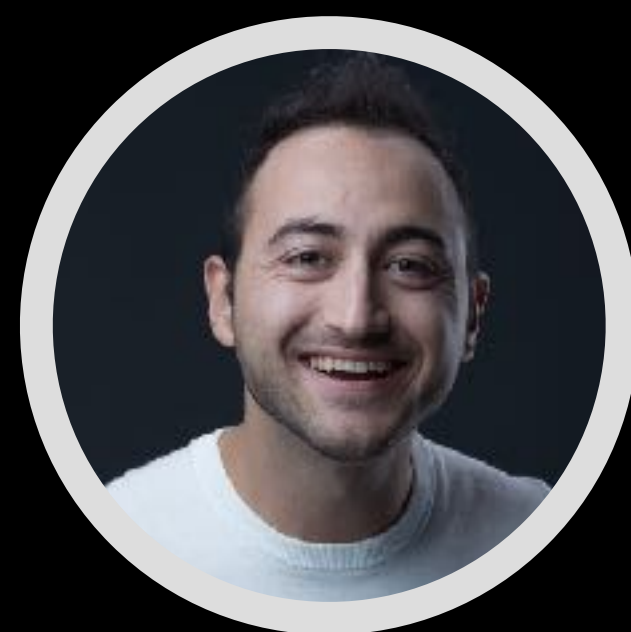
Dutch Mountain Trail

Discover the "Seven Summits" of the Netherlands

Dutch Scenery

About the Trail

The Dutch Mountain Trail is a challenging 101 km long-distance hike winding through the stunning landscapes of South Limburg. Renowned for its (by Dutch standards) steep climbs and beautiful vistas, it's an adventure that takes you over seven distinct peaks, offering a true taste of the Netherlands' most hilly and scenic region.



vs.



1

1

Live code...

What's next?

What's next?

Popover + anchor positioning + interesttarget

CSS Scoped styles

CSS if() conditions and custom functions

Typed attr()

What's next?



Project Fugu



Web AI

our top three priorities

1

#AppleBrowserBan

Apple's ban of third party browsers on iOS is deeply anti-competitive, starves the Safari/WebKit team of funding and has stalled innovation for the past 10 years and prevented Web Apps from taking off on mobile.

2

Deep System Integration

Web Apps need to become just Apps. Apps built with the free and open web need equal treatment and integration. Closed and heavily taxed proprietary ecosystems should not receive any preference.

3

Web App Equality

All artificial barriers placed by gatekeepers must be removed. Web Apps if allowed can offer equivalent functionality with greater privacy and security for demanding use-cases.

Source: open-web-advocacy.org



Questions?

In Summary

The web continues evolving beyond a collection of pages into a platform for rich, app-like experiences.

The fundamental limitations of the Web will most likely stay.

However, the fundamental benefits are still undefeated.

The web has unprecedented power in reaching the customers of today & tomorrow.

THANK YOU!

Add link here

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[X.com/joubranjad](https://x.com/joubranjad)

[instagram.com/Jad.of.all.Trades](https://www.instagram.com/Jad.of.all.Trades)

[YouTube.com/JadJoubran](https://www.youtube.com/JadJoubran)

