codux

REACT 2 SUMMIT

Technically Included

(The best kind of included)

Presented by Tom Raviv

A bit about me

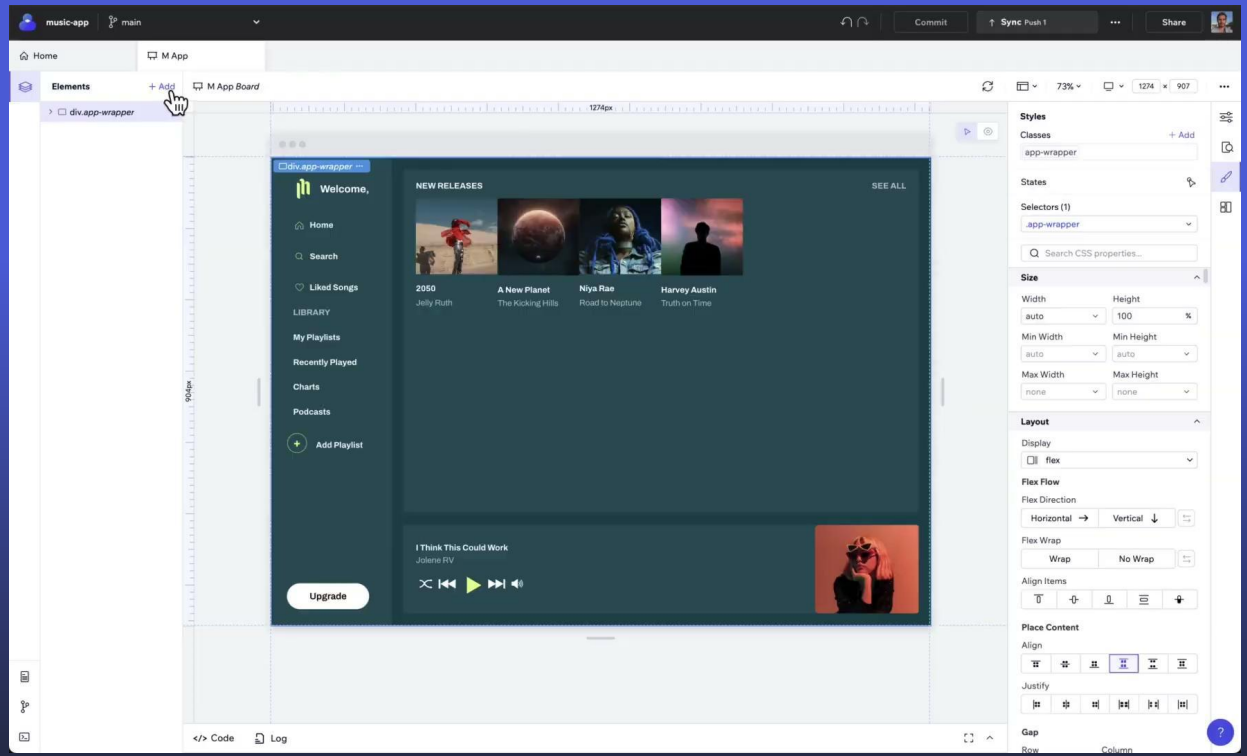
- 10+ Years at Wix.com
  - Started off as a web developer
  - Founded the Wix R&D Academy
  - Lead Stylable.io (OSS)
  - Head DevRel for Codux

Stylable

You Gotta Love Frontend

Codux

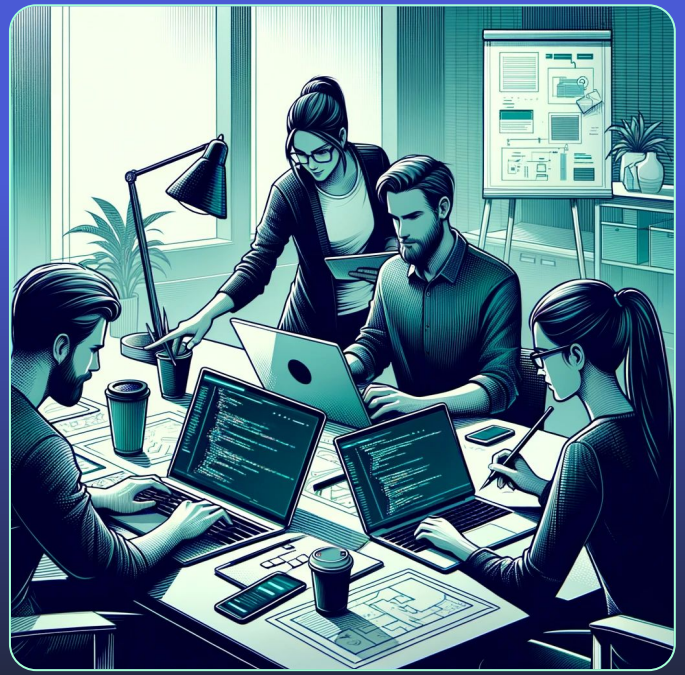
@RavivTom


music-app
main
Commit
Sync Push 1
Share
Home
M App
Elements
+ Add
M App Board
div.app-wrapper
Welcome,
Home
Search
Liked Songs
LIBRARY
My Playlists
Recently Played
Charts
Podcasts
Add Playlist
Upgrade
NEW RELEASES
SEE ALL
2050
Jelly Ruth
A New Planet
The Kicking Hills
Niya Rae
Road to Neptune
Harvey Austin
Truth on Time
I Think This Could Work
Jolene RV
Styles
Classes
app-wrapper
States
Selectors (1)
Size
Width
Height
Min Width
Min Height
Max Width
Max Height
Layout
Display
flex
Flex Flow
Flex Direction
Horizontal
Vertical
Flex Wrap
Wrap
No Wrap
Align Items
Place Content
Align
Justify
Gap
Code
Log

I ❤️ building things

and I ❤️ the web

Cross-functional teams are awesome

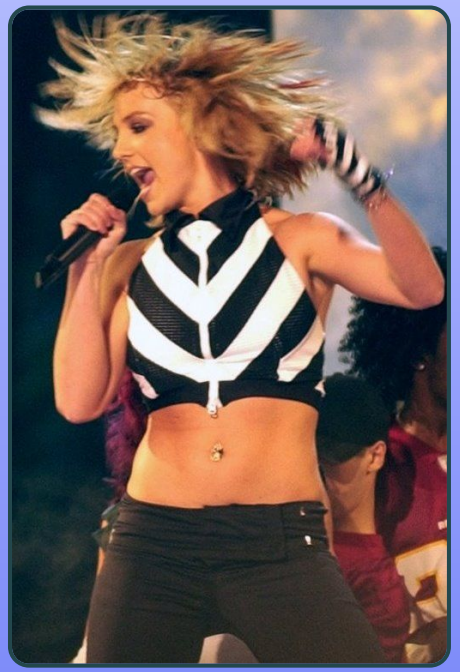


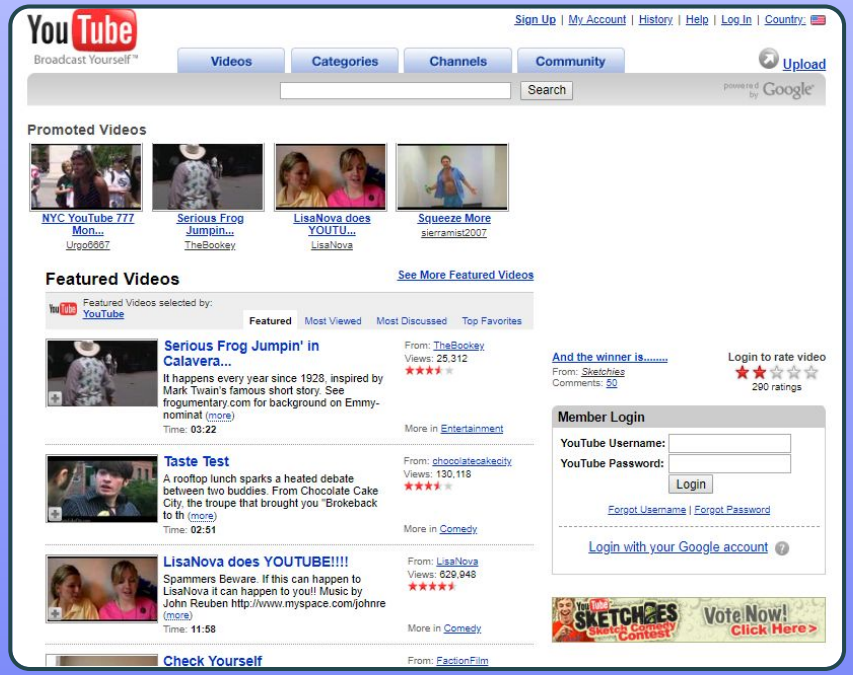
But there are challenges...

- Constant need to sync
- Endless back-and-forth of implementation, review, and fixes

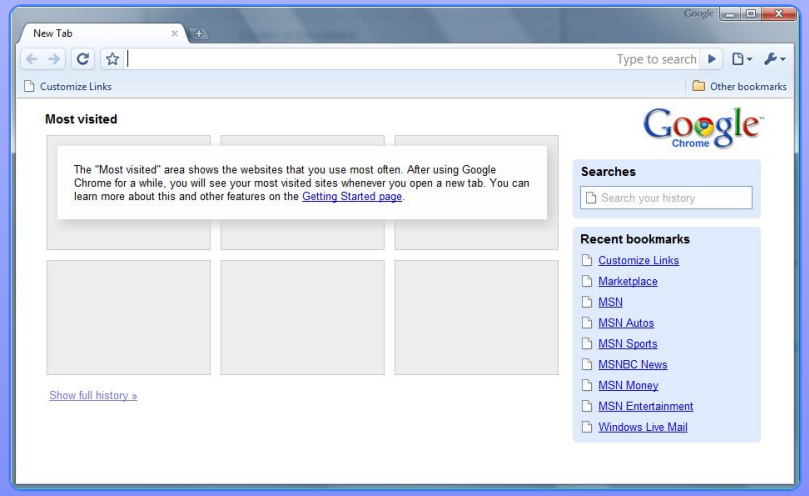
Time runs out, compromises ensue...

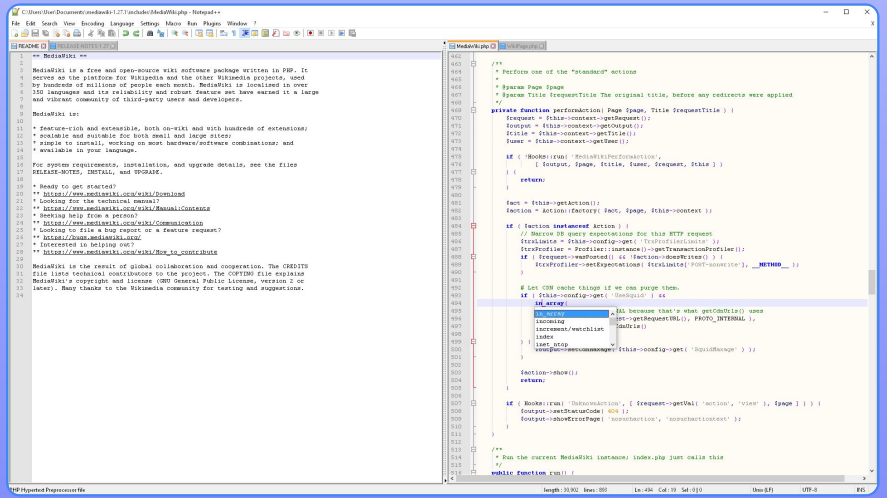
Going back to 2007...





Entering the domain was easier - a browser and a notepad went a long way





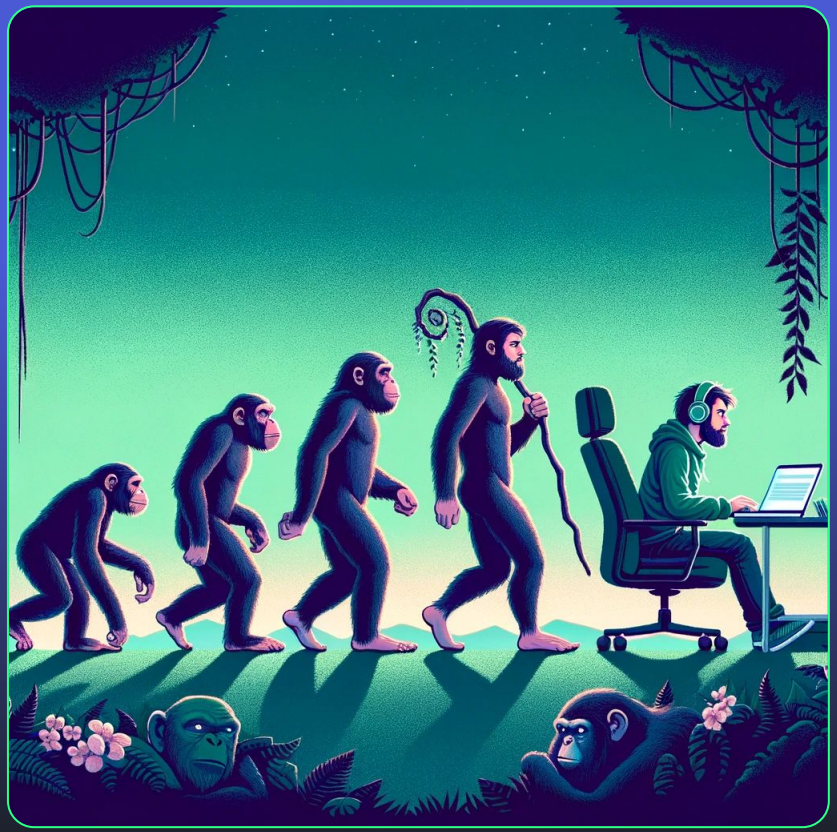
Our focus was different

- Browser compatibility
- Missing APIs & capabilities

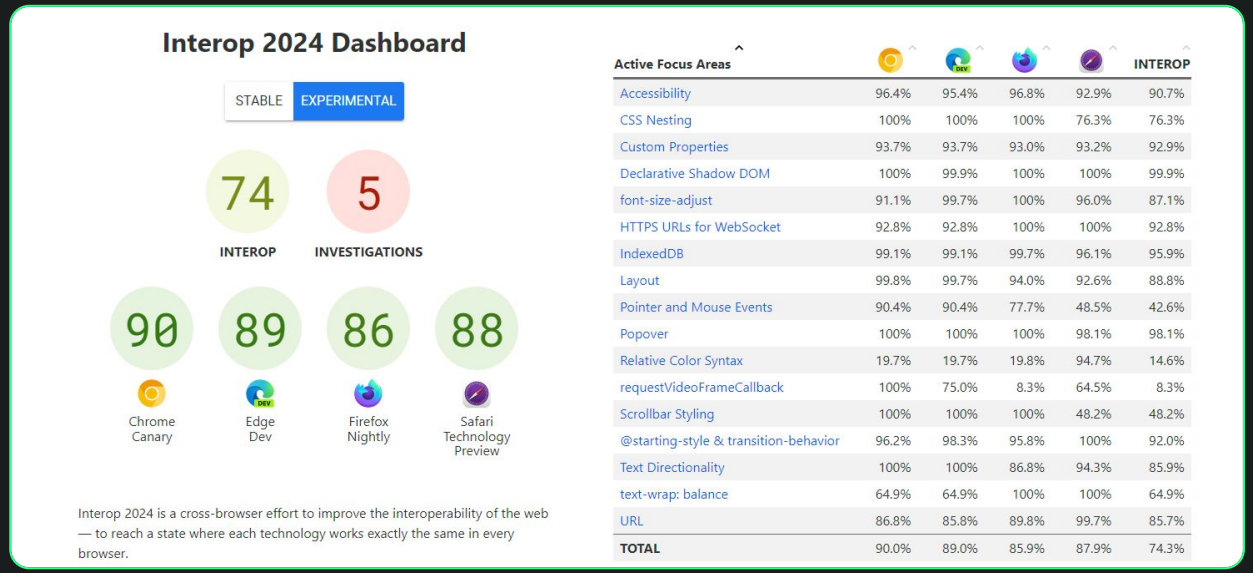
Designers were figuring out the gaps between their legacy tools and the web

We shared a language and we were all playing in the same playground

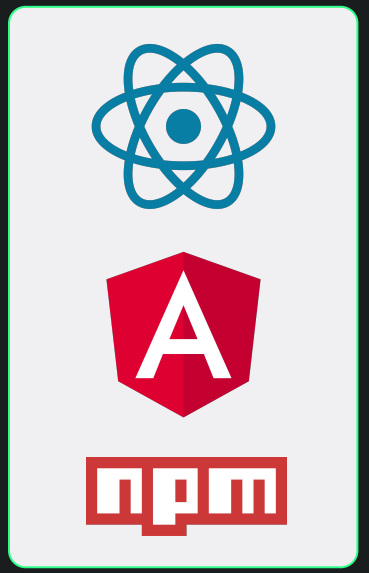
Things continued to evolve...



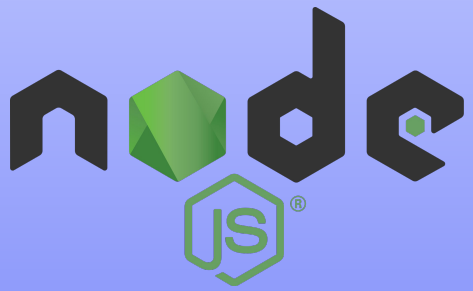
- Browsers became standardized
- Package management entered our world
- Modern frameworks took off
- Working Groups and Tech Committees changed approaches



Active Focus Areas					INTEROP
Accessibility	96.4%	95.4%	96.8%	92.9%	90.7%
CSS Nesting	100%	100%	100%	76.3%	76.3%
Custom Properties	93.7%	93.7%	93.0%	93.2%	92.9%
Declarative Shadow DOM	100%	99.9%	100%	100%	99.9%
font-size-adjust	91.1%	99.7%	100%	96.0%	87.1%
HTTPS URLs for WebSocket	92.8%	92.8%	100%	100%	92.8%
IndexedDB	99.1%	99.1%	99.7%	96.1%	95.9%
Layout	99.8%	99.7%	94.0%	92.6%	88.8%
Pointer and Mouse Events	90.4%	90.4%	77.7%	48.5%	42.6%
Popover	100%	100%	100%	98.1%	98.1%
Relative Color Syntax	19.7%	19.7%	19.8%	94.7%	14.6%
requestVideoFrameCallback	100%	75.0%	8.3%	64.5%	8.3%
Scrollbar Styling	100%	100%	100%	48.2%	48.2%
@starting-style & transition-behavior	96.2%	98.3%	95.8%	100%	92.0%
Text Directionality	100%	100%	86.8%	94.3%	85.9%
text-wrap: balance	64.9%	64.9%	100%	100%	64.9%
URL	86.8%	85.8%	89.8%	99.7%	85.7%
TOTAL	90.0%	89.0%	85.9%	87.9%	74.3%



Our language and runtimes drastically changed



...and so did our responsibilities

Tests

MOCHA

Server-side

NEXT.JS

Responsive design

iOS

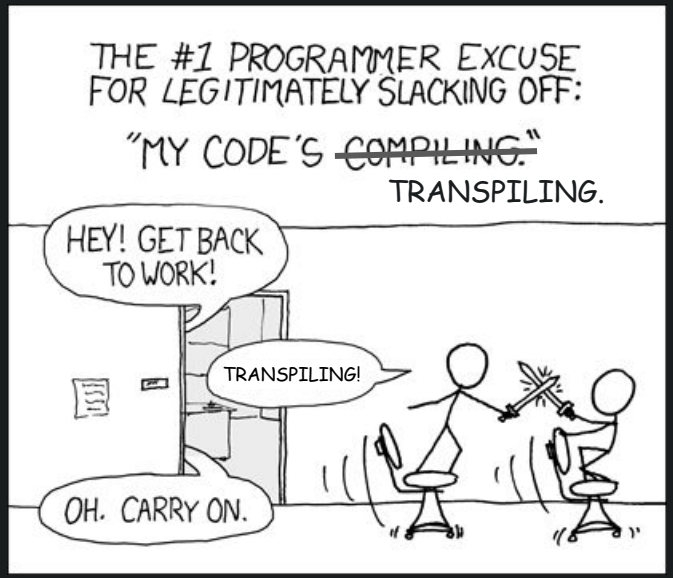
Android

Accessibility

W3C Web Accessibility Initiative WAI

Internationalization

SEO



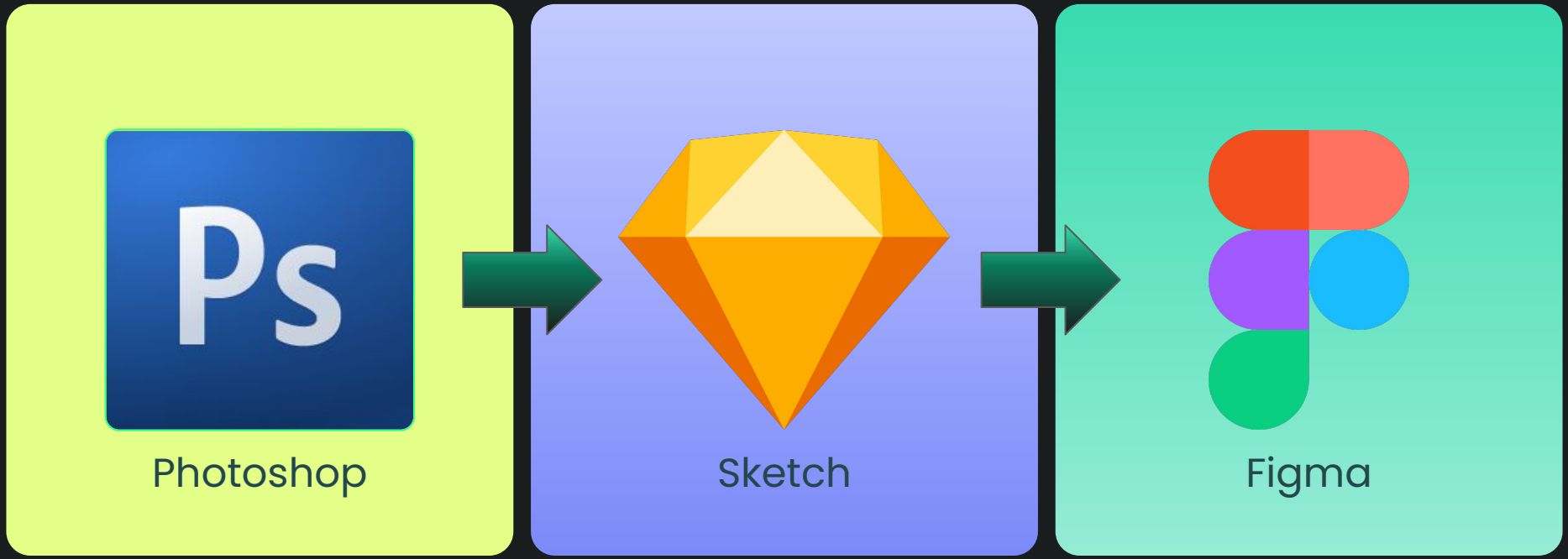
xkcd #303

Meanwhile for our designer friends...

UX and web design were shaping up

- Web design trends
- Usability testing
- Responsive design
- Accessible design
- Asset management
- Theming and user-generated content

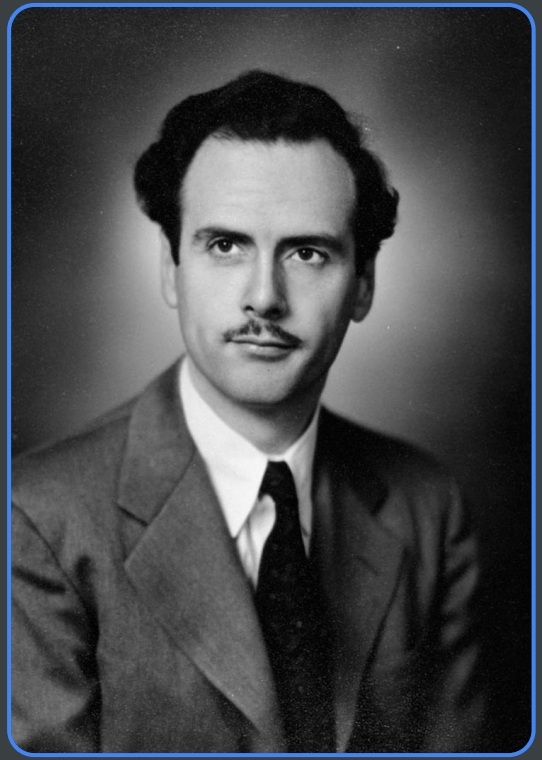
Design tools evolved



As each role professionalized, they drifted apart, and the gap grew wider

So, how can we bring back the love? ❤️❤️❤️

"The medium is the message."



Marshall McLuhan

Code is truth;

Code is truth;
you're its keepers!

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you're its keepers!

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you're its keepers!

Welcome them back into our world

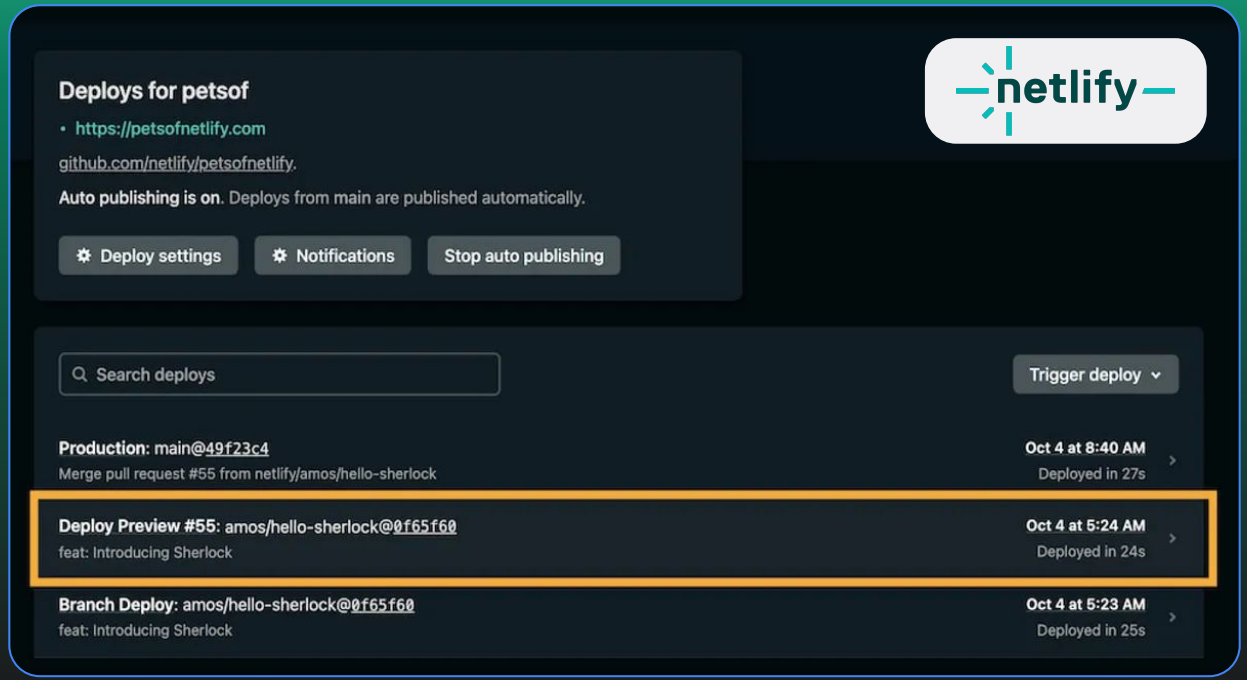
Tools & process

Building a common language

Embracing change & building trust

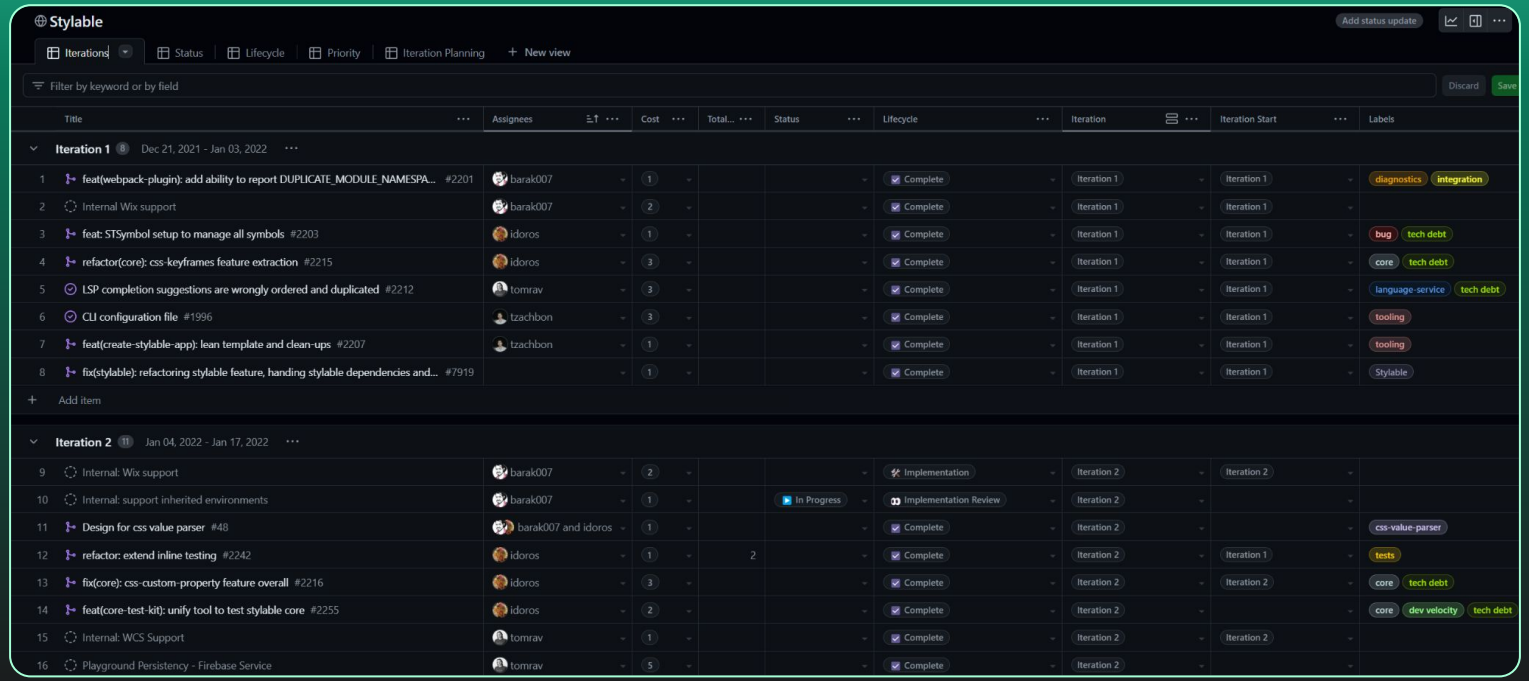
Tools & process

- Short feedback loops, less waterfall



Tools & process

- Code / task management matters too!



Building a common language

- Misaligned internal names

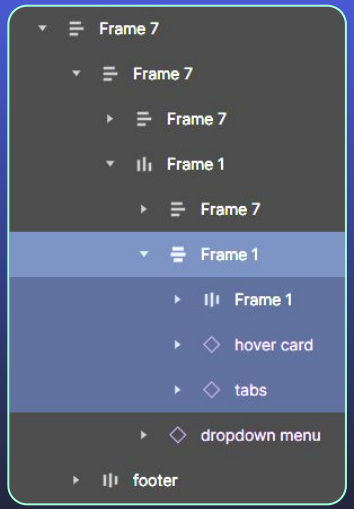
Dropdown?

Select?

Combobox?

Building a common language

- Beware of naming pitfalls in your tools



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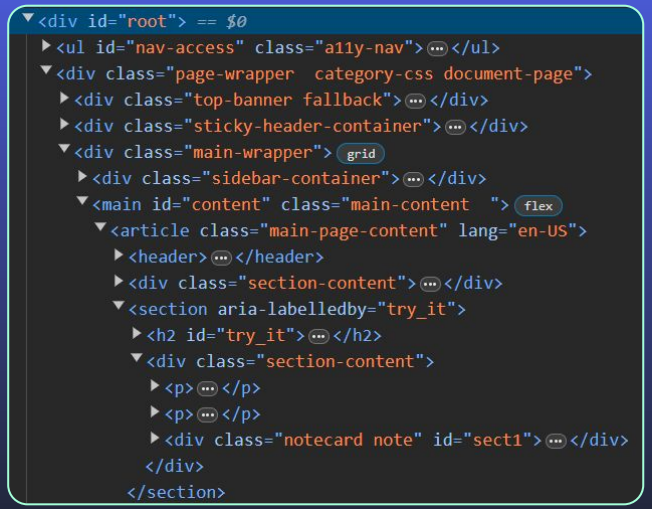
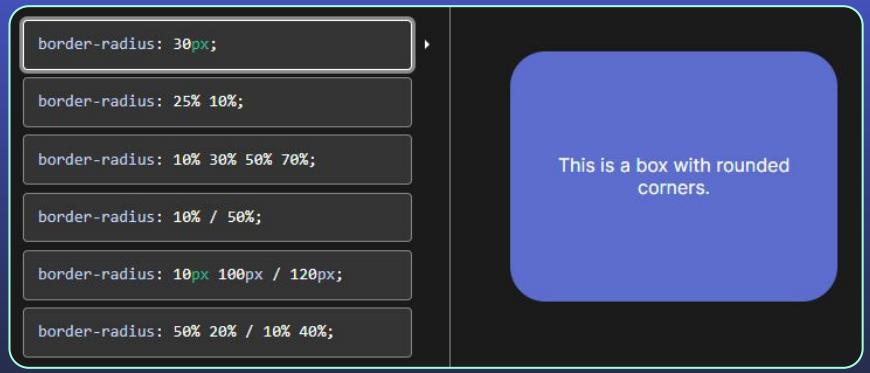


Building a common language

- Beware of naming pitfalls in your tools

??



Building a common language

- Adopt an alphabet

Building a common language

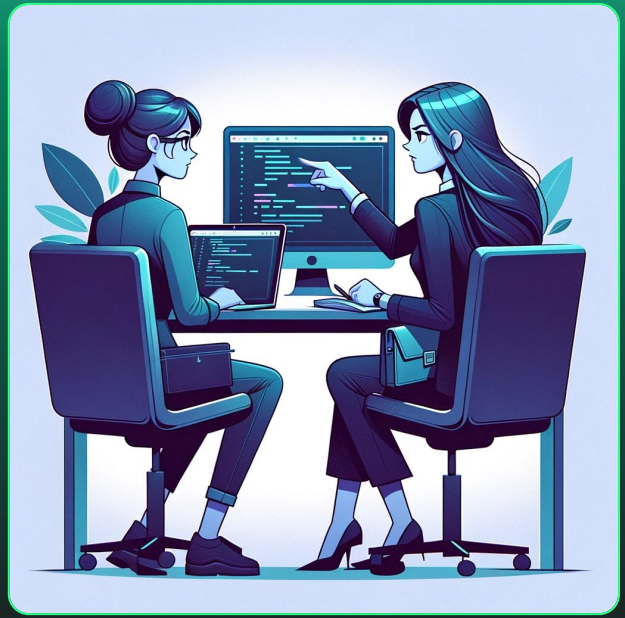
- Go further and adopt a vocabulary

Building a common language

- Go bigger! Whole sentences now

Embracing change & building trust

- Learning is a worthwhile investment



Designers are not coming for your code, they're coming to it.

Include them, technically!

- Invest in your designer's technical skills
- Enable easy access for all team members
- Work together to establish a shared language in your tools & processes
- Adopt tools that offer cross-domain solutions

@RavivTom