the web platform

will happen, happening, happened

Jakob Cosoroabă

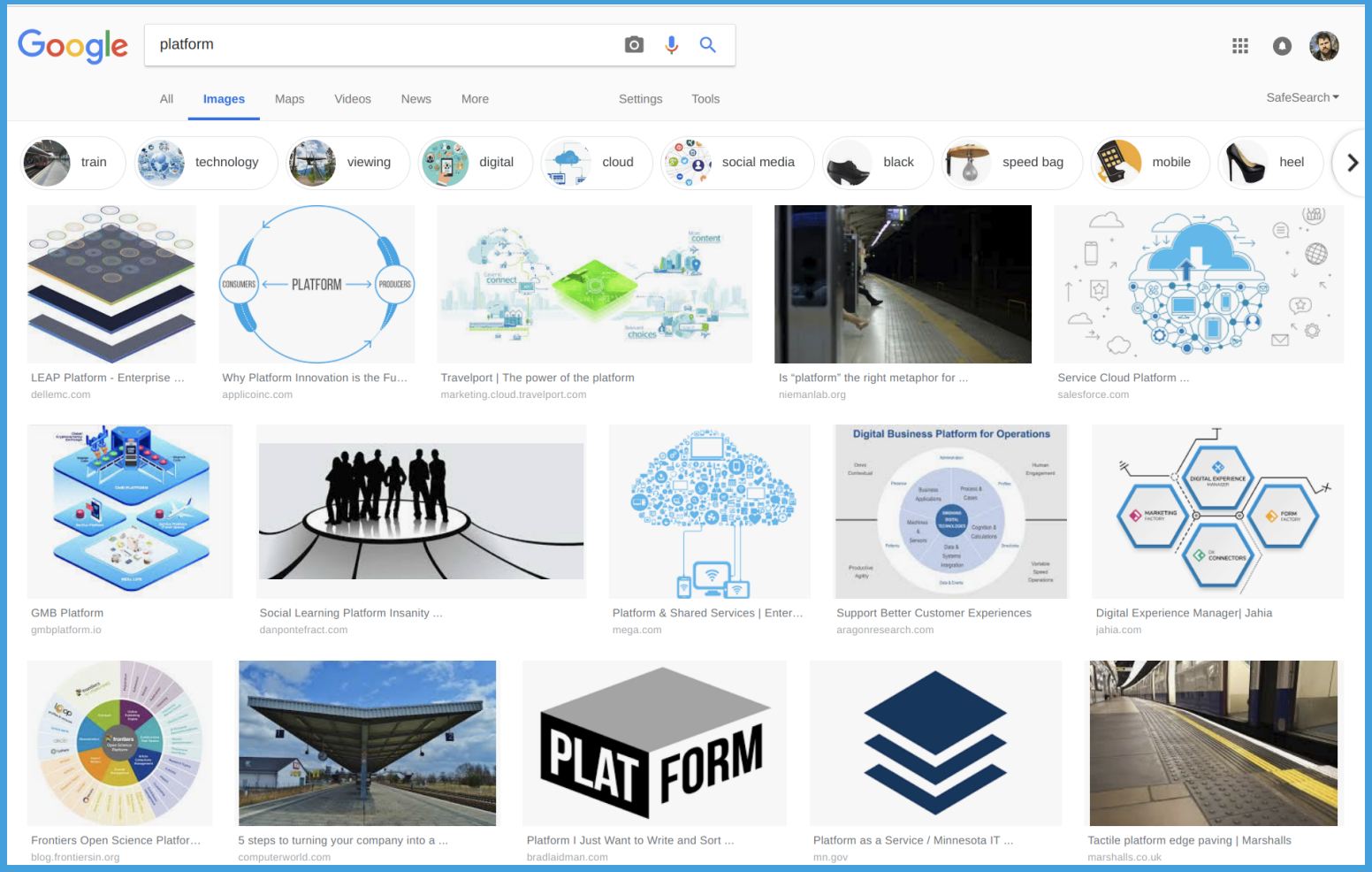
23 Nov 2018

Jakob Cosoroabă

spends too much time on

- Twitter
- Medium
- Reddit
- HackerNews

What is a Platform?



Speaker notes

What is a Platform:

visual person - search on google images - all abstract

in general sense: thing to stuff build stuff upon
so for software: /s/stuff/software

software to build software

stuff to build stuff upon

:s/stuff/software/g

Speaker notes

Internet and Web - where to draw the line

Internet != Facebook

History
(let's keep it short)

~13.772 billion years ago

World Wide Web

The WorldWideWeb (W3) is a wide-area hypermedia information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an executive summary of the project, Mailing lists , Policy , November's W3 news , Frequently Asked Questions .

What's out there?
Pointers to the world's online information, subjects , W3 servers, etc.

Help
on the browser you are using

Software Products
A list of W3 project components and their current state. (e.g. Line Mode ,X11 Viola , NeXTStep , Servers , Tools , Mail robot , Library)

Technical
Details of protocols, formats, program internals etc

Bibliography
Paper documentation on W3 and references.

People
A list of some people involved in the project.

History
A summary of the history of the project.

How can I help ?
If you would like to support the web..

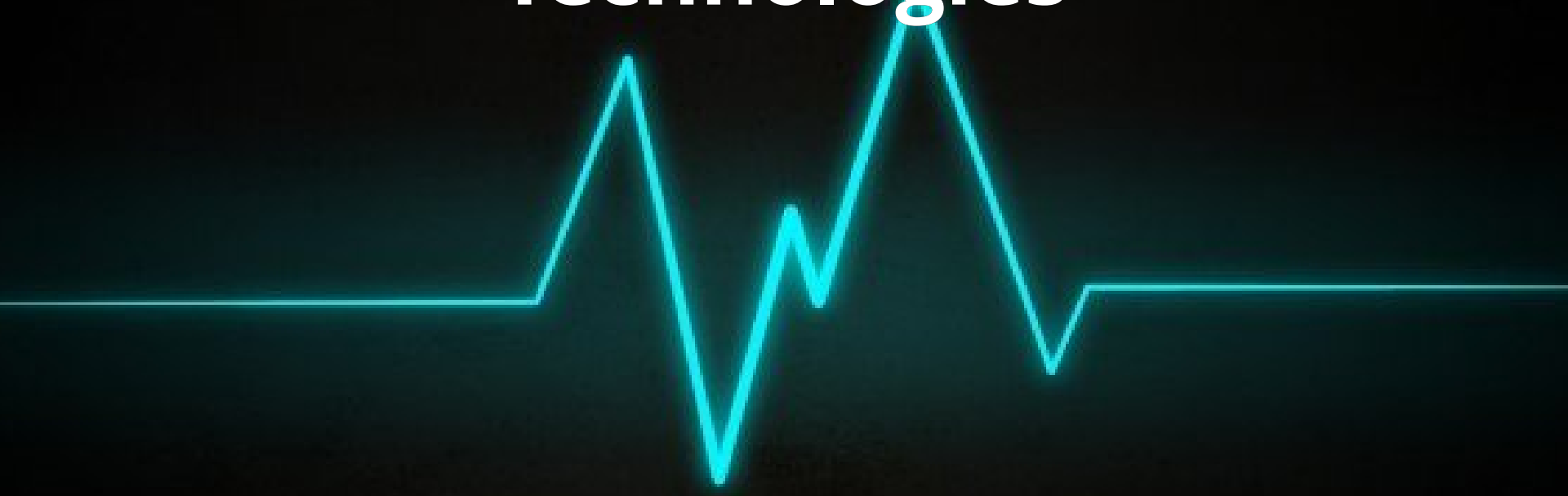
Getting code
Getting the code by anonymous FTP , etc.

6 August 1991

Speaker notes

first 13 billion years nothing
first website
http://info.cern.ch/hypertext/WWW/TheProject.html
html August 6, 1991
Images 1993
CSS 1994
JS 1995

The Pulse of Web Technologies



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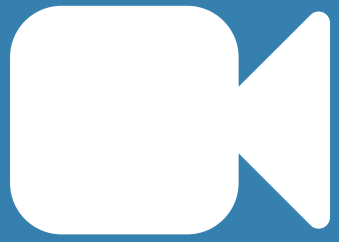
Tehnologic puls
Extend private (flash, activex, vendor prefix)
Spec catches up

ajax, sockets, native

online first offline second
other platforms offline first, online second



Speaker notes

The web how we know it now
How did we get there

Open

Open

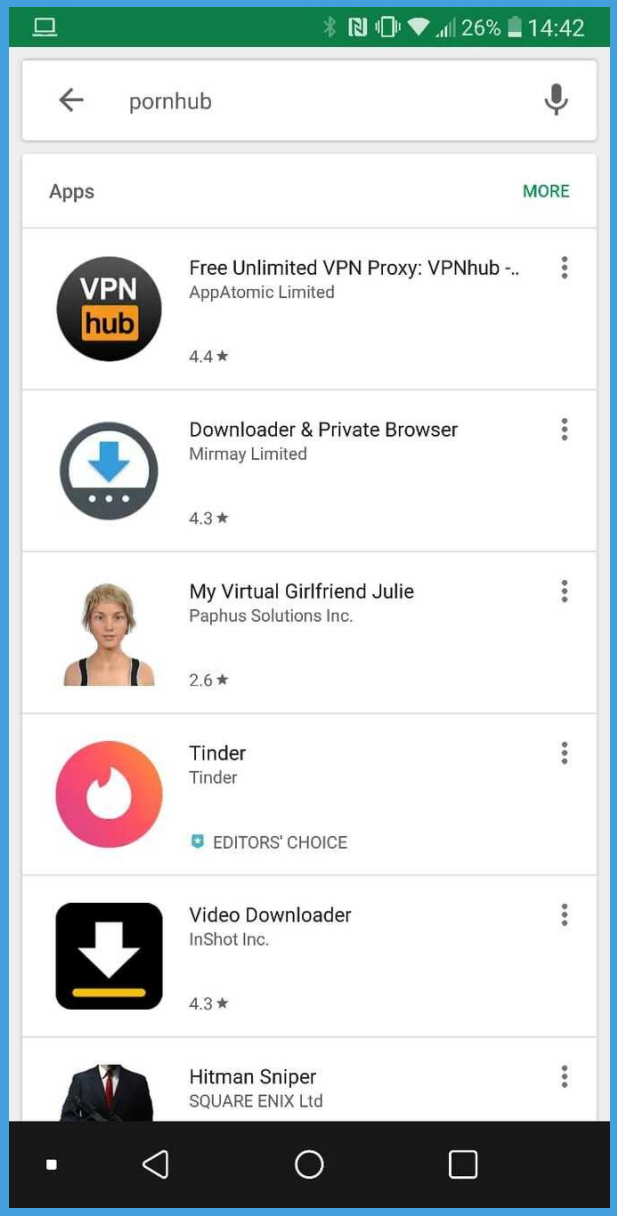
- Low barrier to entry
- No proprietary toolset
- No explicit censorship
- Distributed

Speaker notes

Every device
Inspect Element
Any Editor, or directly in the browser
Only platform where backwards compatible is expected

Censorship

in other platforms



Speaker notes

Porn
Free Speech
China
HTTPS

Diverse

Diverse

- Every Device
- Every Language
- Every Country

Speaker notes

Every device
apple watch, tesla, fridge,

Any Editor, or directly in the browser

spotify - chromium
vscode/atom - electron

Why so popular?

Cornerstones of the Web

Linkable

Indexable

Composable

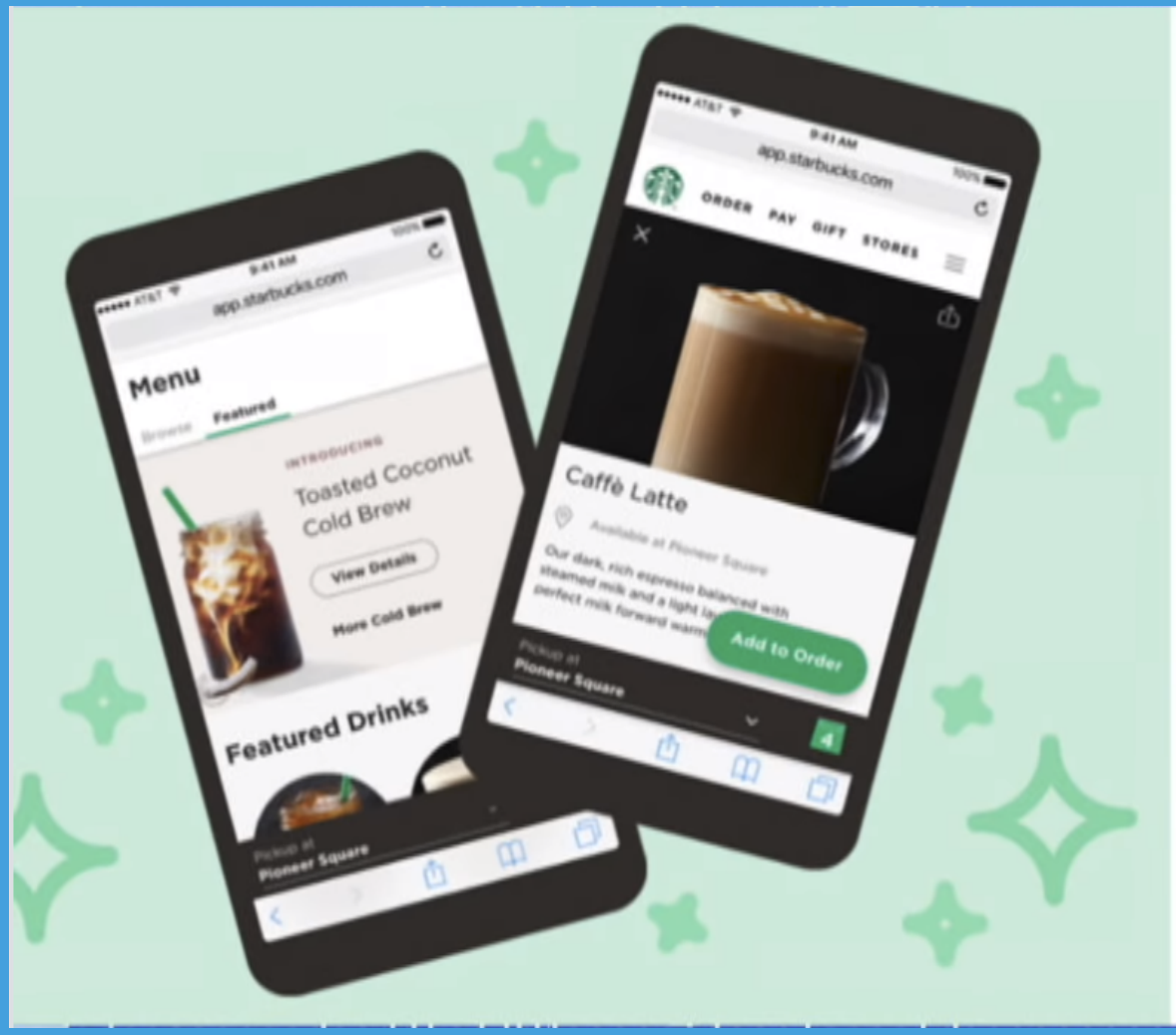
Ephemeral

Secure

Speaker notes

Linkable
Hypertext , how it got started in the first place
#Indexable
Google
#Composable
iframes, 3rd party things
Ephemeral
nothing to uninstall
Secure
Sandbox , most exploits Flash/PDF

Now(ish)



Starbucks PWA

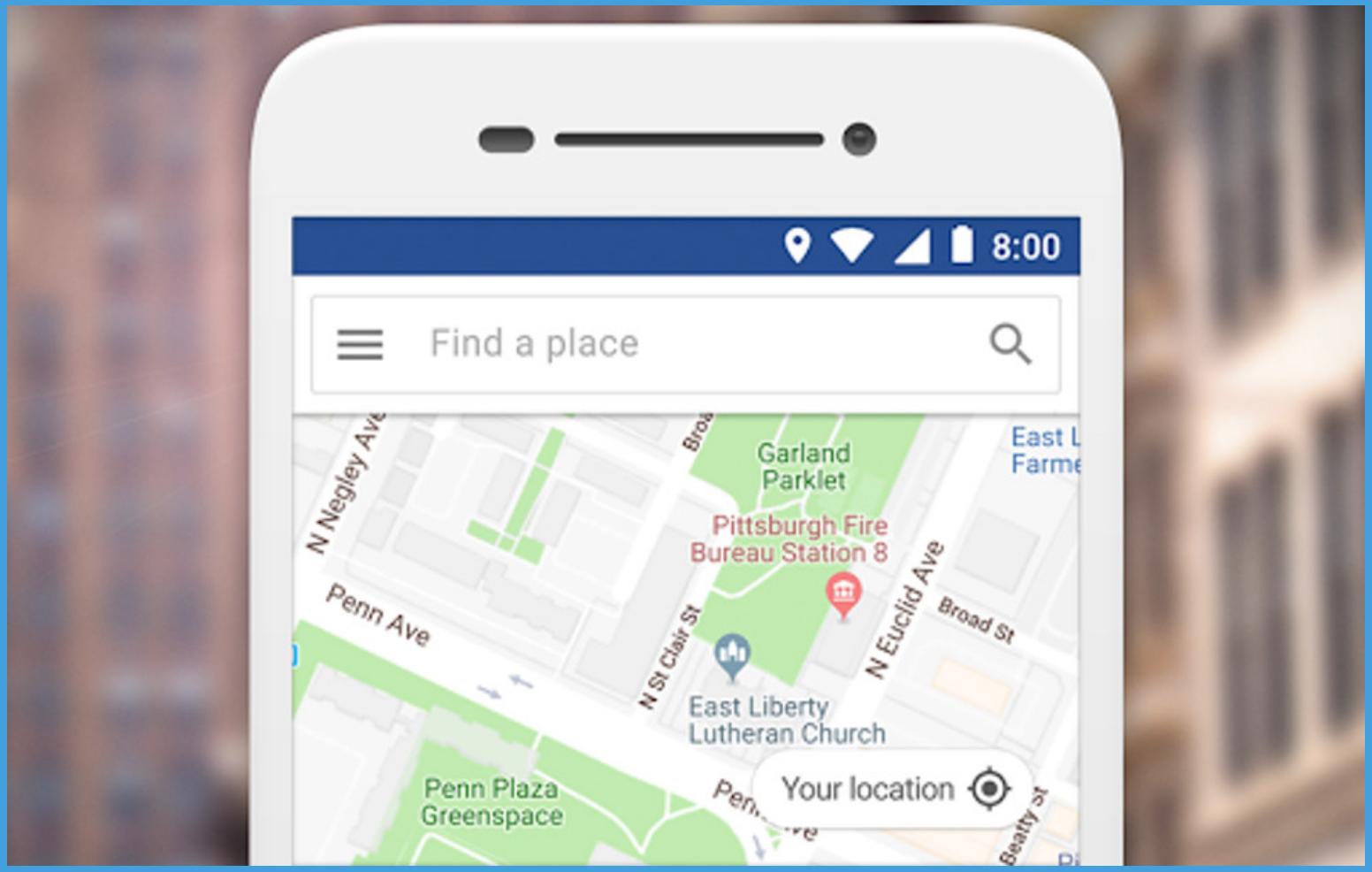
99.84% smaller (233KB) than native iOS app

+ Instant ordering
+ Fast & accessible
+ Add to homescreen

Speaker notes

PWA
stolen slide

Google Maps Go



Speaker notes

almost PWA

Twitter
Facebook
Messenger Lite

WebGL

https://www.shadertoy.com/embed/Ms2SD1?gui=true&t=10&paused=false&muted=false

https://www.shadertoy.com/

Speaker notes

Live 60FPS

No WebGL available :(
8.5

No WebGL available :(
8.6

The future is already here — it's just not very evenly distributed

William Gibson

WebUSB

Speaker notes

update drivers

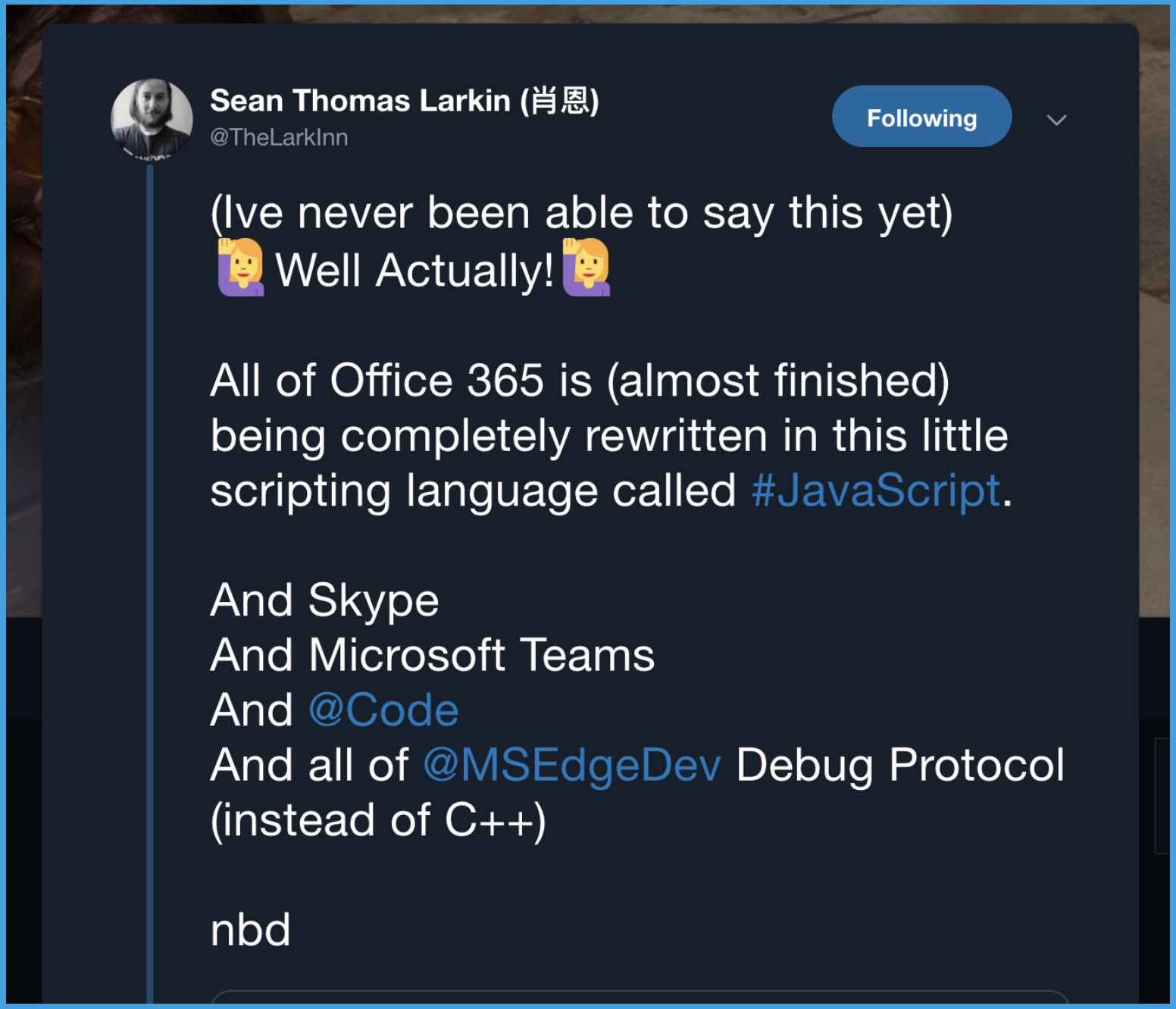
WebAssembly

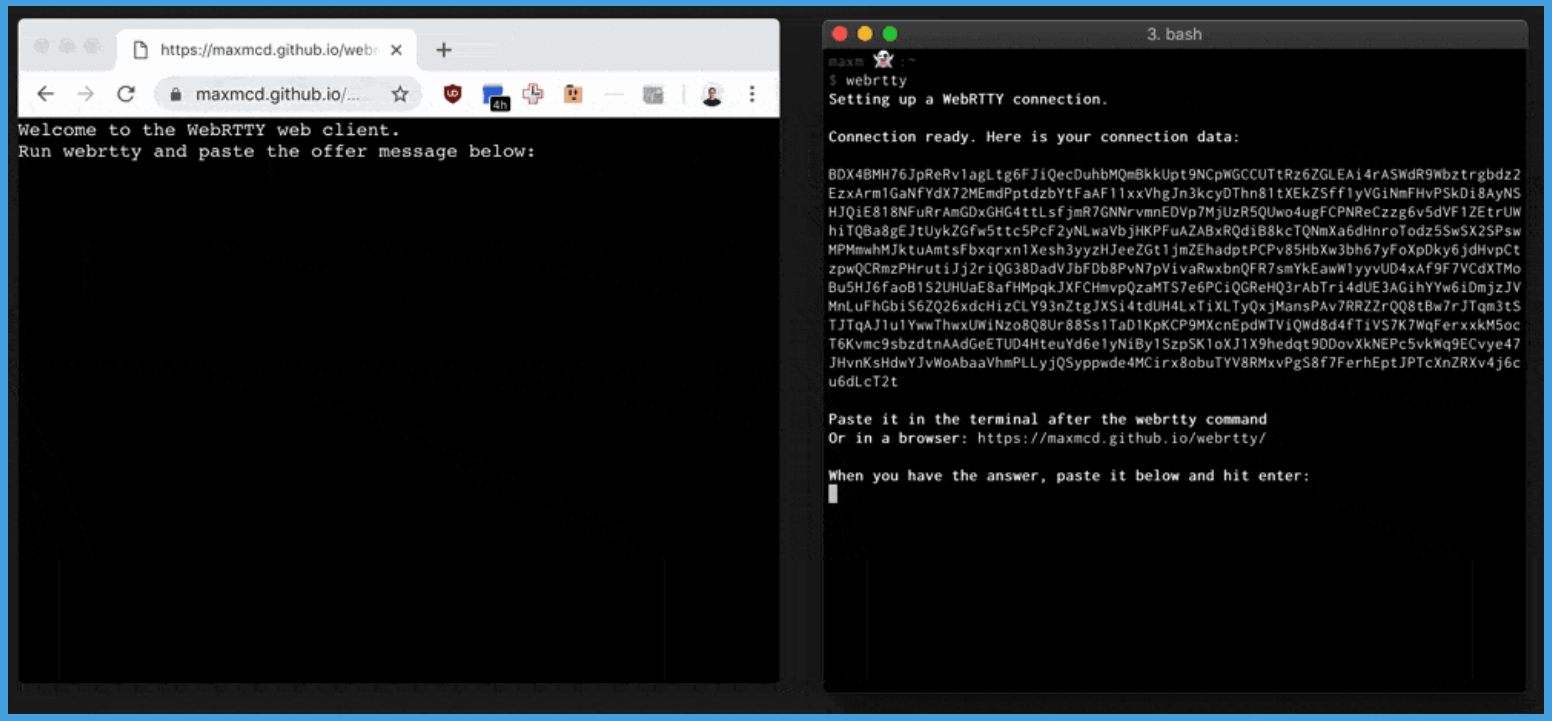
compile to WebASM

Speaker notes

Web-assembly not just the next Java Applets/Flash/Silverlight/NaCL

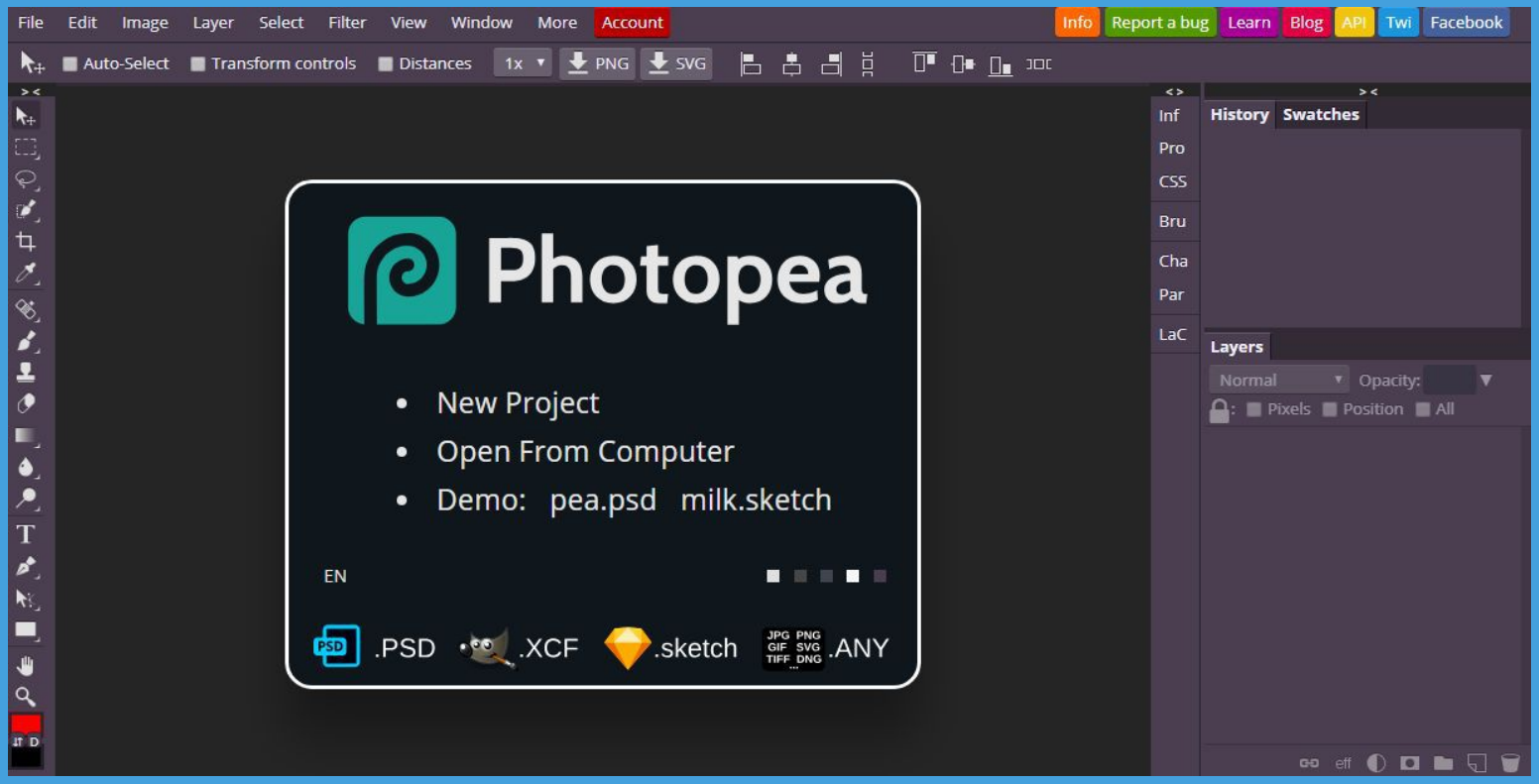
no separate runtime
not just one language (rust, go, elm .. https://github.com/appcypher/awesome-wasm-langs)
WIP integrations, right now webworkers


Sean Thomas Larkin (肖恩)
@TheLarkInn
Following
(Ive never been able to say this yet)
🤦‍♀️ Well Actually! 🤦‍♀️
All of Office 365 is (almost finished) being completely rewritten in this little scripting language called #JavaScript.
And Skype
And Microsoft Teams
And @Code
And all of @MSEdgeDev Debug Protocol (instead of C++)
nbd



Share a terminal session over WebRTC

https://maxmcd.github.io/webtty/



Photopea is a free Photoshop clone that works in web browser

https://www.photopea.com/

in Browser Machine Learning

https://teachablemachine.withgoogle.com/

Web-Blockchain?

Speaker notes

Brave
WebpaymentsAPI
Nimiq - browserbased coin
Monero mining

Blurred Lines

(not the song)

Speaker notes

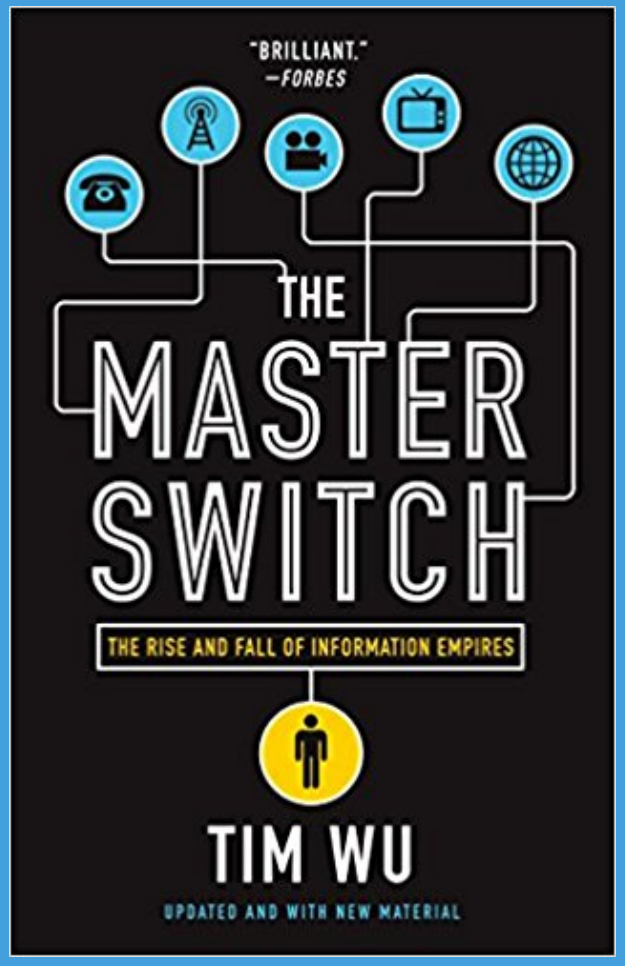
right now html is everywhere
as long as it works end users don't know/care

chrome desktop apps

The Master Switch

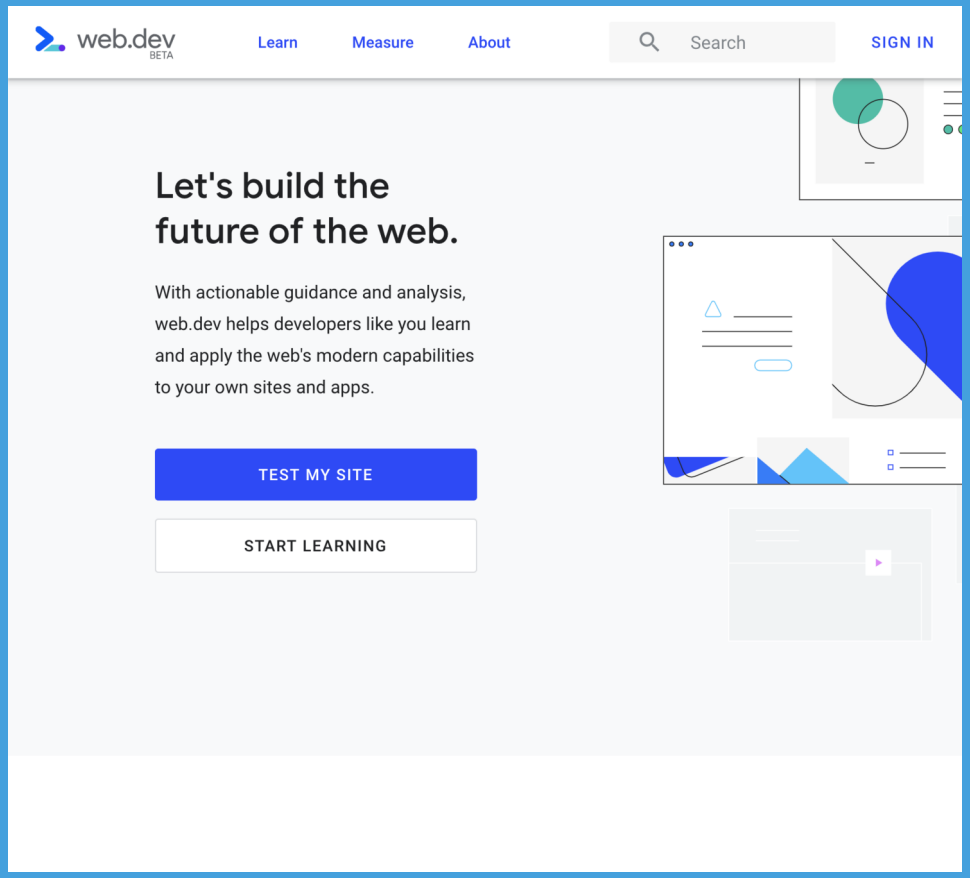
The Rise and Fall of Information Empires

- Book by Tim Wu



web.dev

Let's build the future of the web.



THANK YOU

Stay in contact

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