Project Fugu

Almost Three Years In…

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@thejohnjansen

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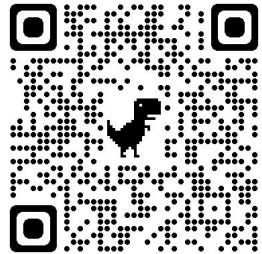
Chromium Blog

News and developments from the open source browser project

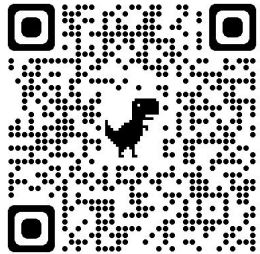
Our commitment to a more capable web

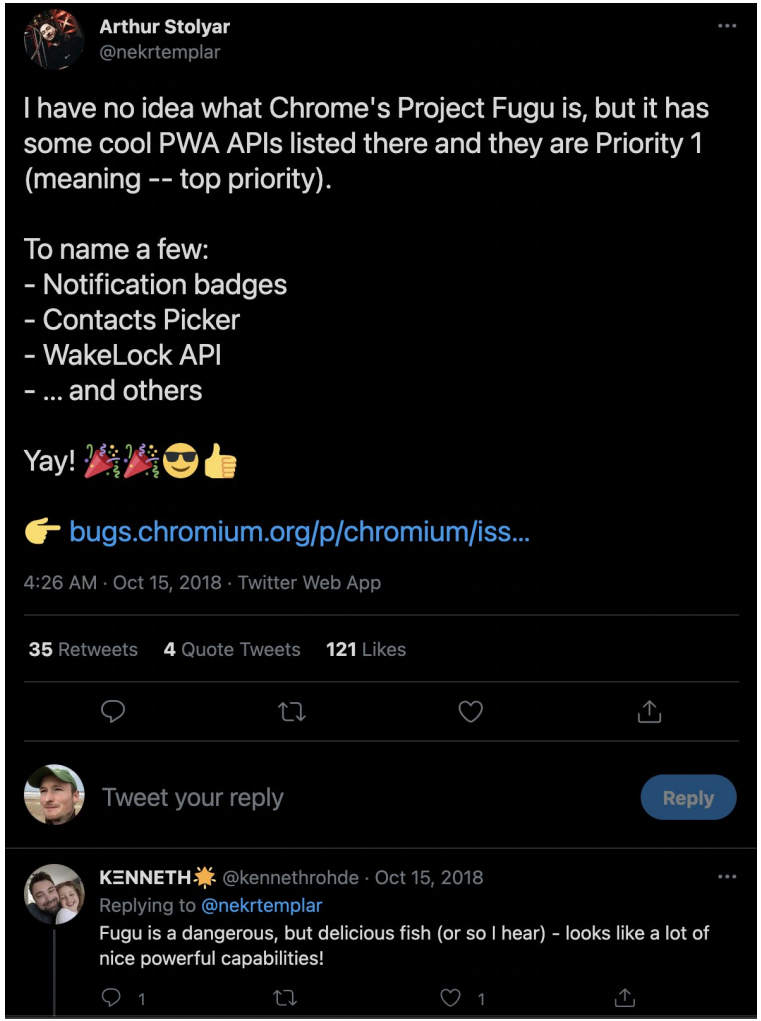
Monday, November 12, 2018

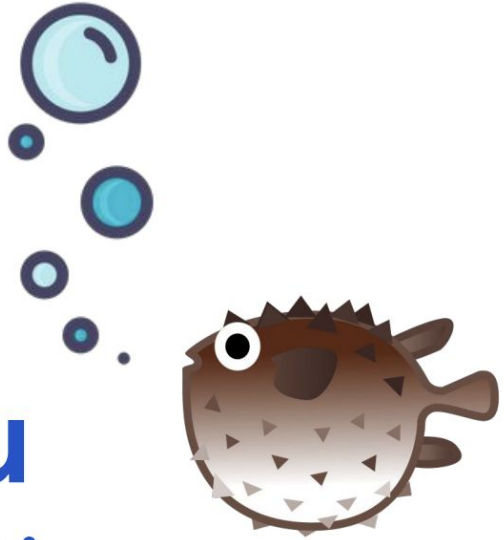
Since the beginning of Chrome we have worked to provide a solid foundation for modern web applications. Those capabilities have enabled new experiences on the web that were never thought possible. WASM is enabling new classes of games and productivity apps like Sketchup and AutoCAD, WebRTC enables new ways to communicate, and service workers allow developers to create reliably fast web experiences regardless of network conditions.



However, there are some capabilities, like file system access, idle detection, and more that are available to native but aren’t available on the web. These missing capabilities mean some types of apps can't be delivered on the web, or are less useful. To cope, some developers build native apps, or use wrappers like Cordova or Electron to access the underlying capabilities of the device.




Arthur Stolyar
@nekrtemplar
I have no idea what Chrome's Project Fugu is, but it has some cool PWA APIs listed there and they are Priority 1 (meaning -- top priority).
To name a few:
- Notification badges
- Contacts Picker
- WakeLock API
- ... and others
Yay! 🎉🎉😎👍
👉 bugs.chromium.org/p/chromium/iss...
4:26 AM · Oct 15, 2018 · Twitter Web App
35 Retweets 4 Quote Tweets 121 Likes
Tweet your reply
Reply
KENNETH💥 @kennethrohde · Oct 15, 2018
Replying to @nekrtemplar
Fugu is a dangerous, but delicious fish (or so I hear) - looks like a lot of nice powerful capabilities!
1
1



PWA + Project Fugu

Reaching parity with native

Kenneth Christiansen @kennethrohde

Web Platform Architect, Intel

For a More Capable Web: Project Fugu

Thomas Steiner, Google
Anssi Kostiainen, Intel
John Jansen, Microsoft

TPAC 2019
Fukuoka, Japan


THOMAS
STEINER
Developer Relations
Engineer at Google
@tomayac
TPAC 2021
W3C

Reset Badge

File System Access API

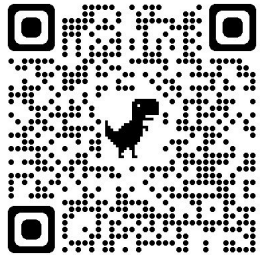
Secure context: This feature is available only in secure contexts (HTTPS), in some or all supporting browsers.

The File System Access API allows read, write and file management capabilities.

Concepts and Usage

This API allows interaction with files on a user's local device, or on a user-accessible network file system
Core functionality of this API includes reading files, writing or saving files, and access to directory structu

Most of the interaction with files and directories is accomplished through handles. A parent `FileSystemHandle` class helps define two child classes: `FileSystemFileHandle` and `FileSystemDirectoryHandle`, for files and directories respectively.



Screen Wake Lock

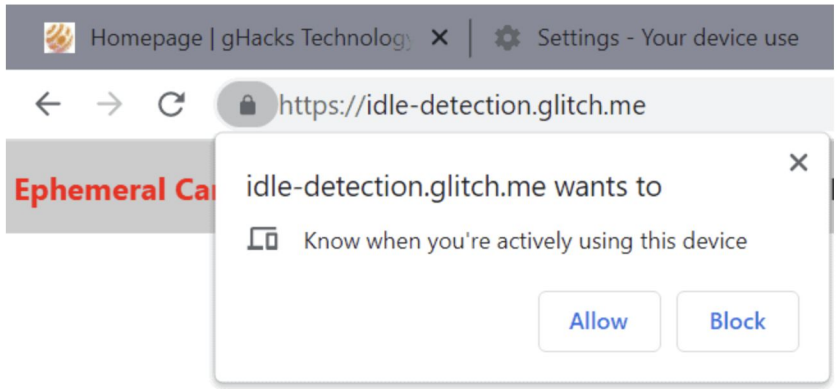
This metric tracks the percentage of pages that acquire a screen wake lock via the Screen Wake Lock API.

DESKTOP	MOBILE
0.0%	0.0%

How to block sites from requesting Idle Detection API permissions in Chrome

by Martin Brinkmann on September 27, 2021 in Google Chrome - 41 comments

Google introduced a controversial API in Google Chrome 94 this month. Called Idle Detection API, it allows sites to query the device to find out whether it is idle or in active use. A device enters idle state if it is not used actively for a period; the API can request the idle state of components or events, such as the keyboard, mouse or screensaver.



Tracking Prevention in WebKit

WebKit has implemented tracking prevention technologies, spanning from 2003 with Safari 1.0 until today. Most of them are on by default. This document describes shipping behavior including Intelligent Tracking Prevention (ITP).

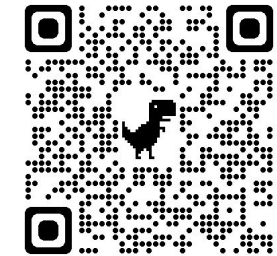
You can learn more about why we prevent cross-site tracking and how we handle the inherent tradeoffs by reading our Tracking Prevention Policy.

Contents

Terminology

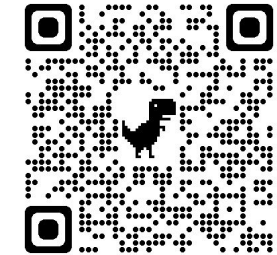
Let's define what we mean by a few things first.

- A **registrable domain** is a website's eTLD+1 or effective top-level domain plus one label. Effective top-level domains are defined in the Public Suffix List.
- **Website or site**. A website is a registrable domain including all of its subdomains. Others define site to also include the scheme, making http://news.example and https://news.example be two different sites. For the purposes of this document, we consider http and https to be be same site, since cookies can (still) span schemes.



Finally, if we find that features and web APIs increase fingerprintability and offer no safe way to protect our users, we will not implement them until we or others have found a good way to reduce that fingerprintability. We continue to have open discussions with other browser makers through the web standards process, many of whom share these concerns. Here are some examples of features we have decided to not yet implement due to fingerprinting, security, and other concerns, and where we do not yet see a path to resolving those concerns:

- Web Bluetooth
- Web MIDI API
- Magnetometer API
- Web NFC API
- Device Memory API
- Network Information API
- Battery Status API
- Web Bluetooth Scanning
- Ambient Light Sensor
- HDCP Policy Check extension for EME
- Proximity Sensor
- WebHID
- Serial API
- Web USB
- Geolocation Sensor (background geolocation)
- User Idle Detection

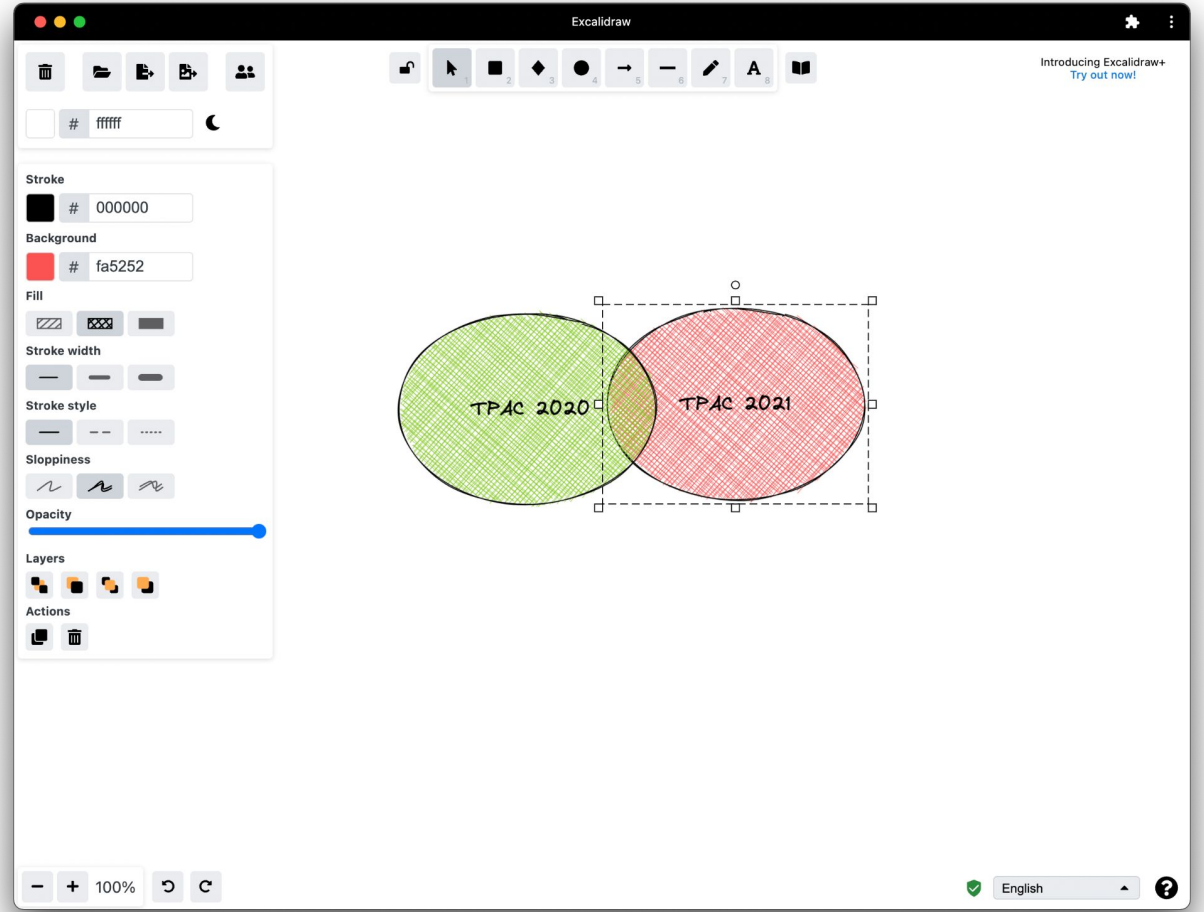


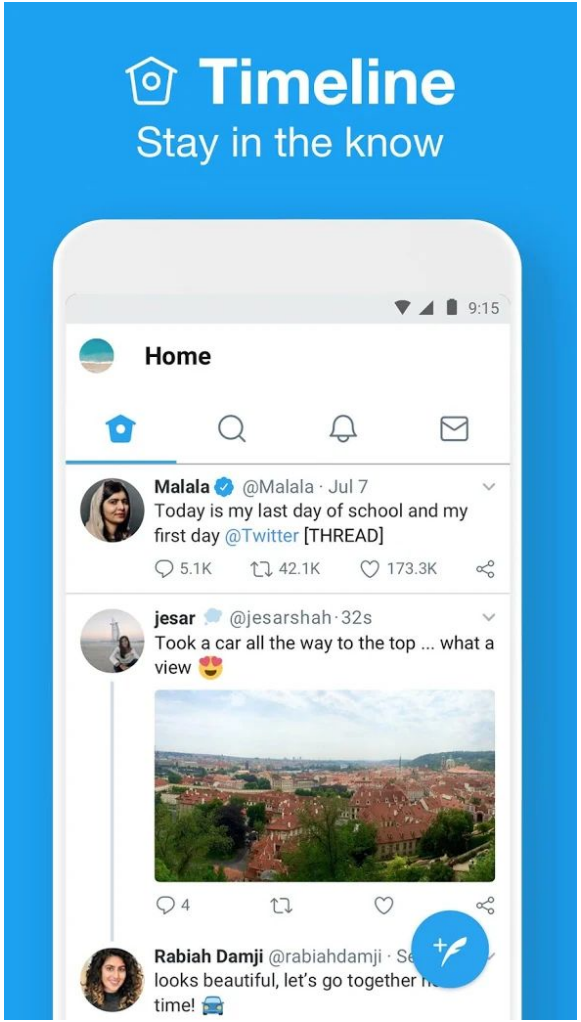
Fugu API Tracker

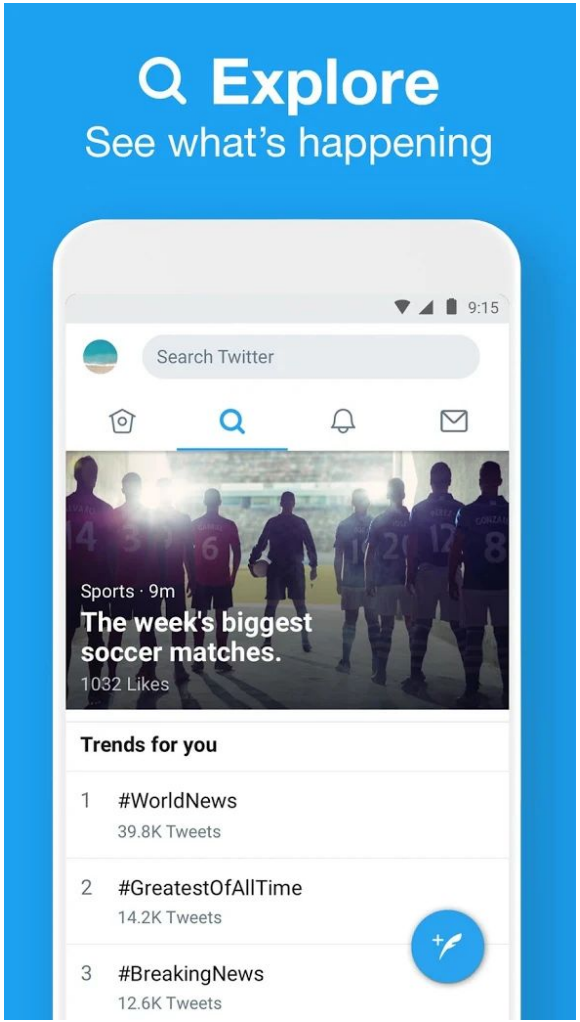
STABLE	BETA	DEV
Chromium 93	Chromium 94	Chromium 95
Stable 49 days ago (Aug 31, 2021)	Stable 28 days ago (Sep 21, 2021)	Stable in 0 days (Oct 19, 2021)

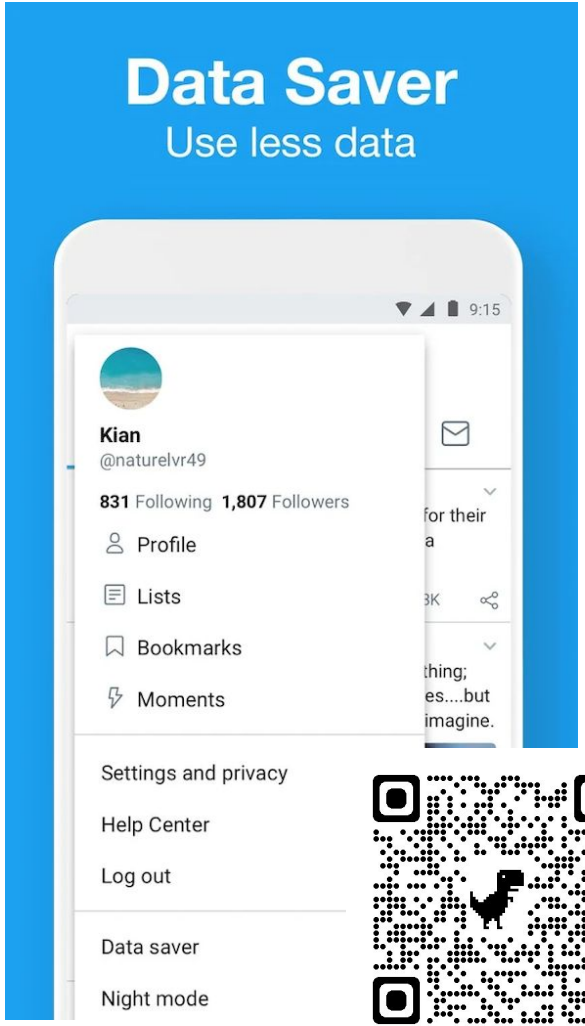
Shipped

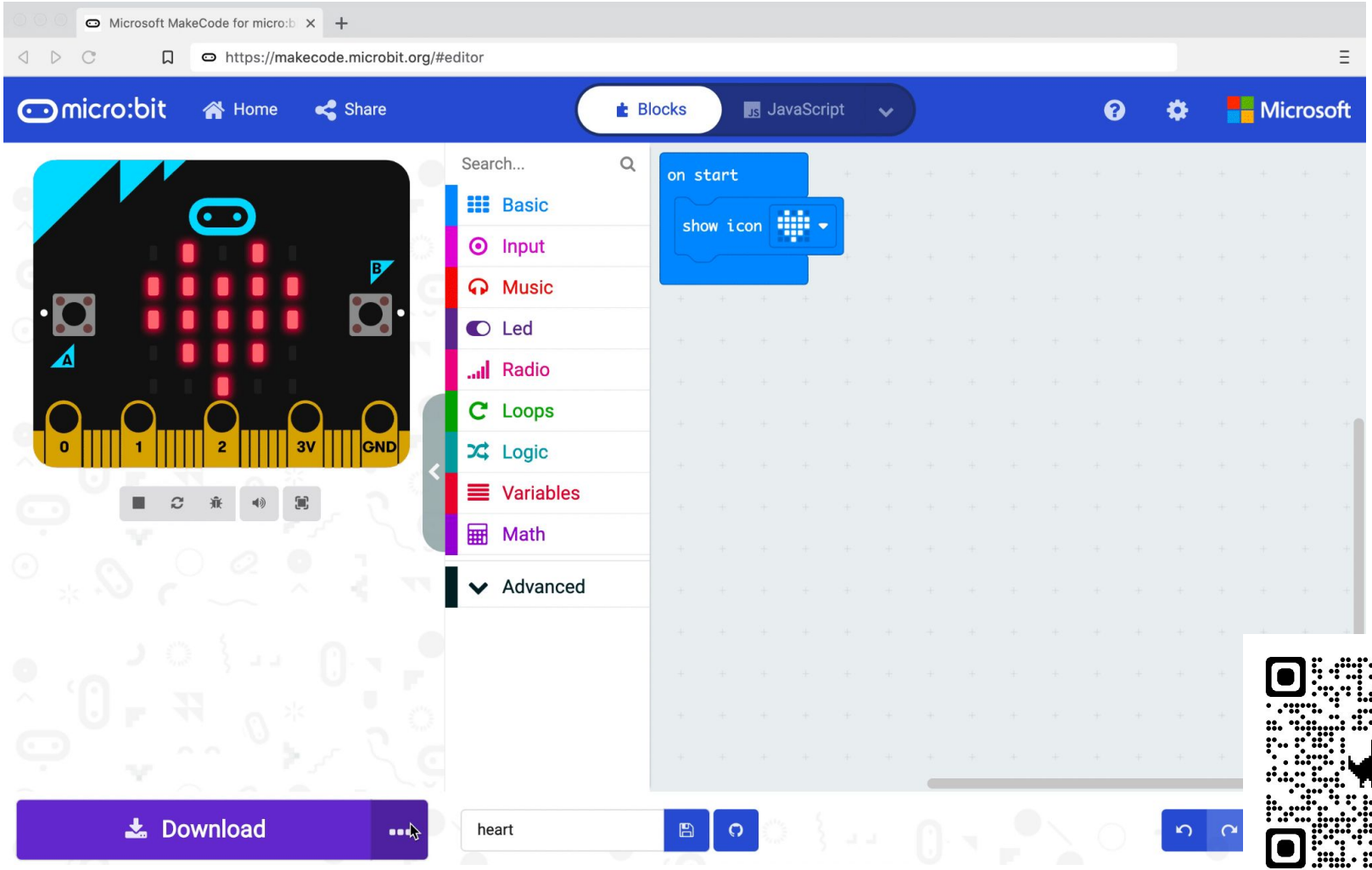
Web Bluetooth API	M56		+
WebUSB API	M61		+
Web Share Target	M71		+
Web Share API Level 2	M75		+
Web Share Target Level 2	M76		+
Async Clipboard: Read and Write Images	M76		+
Enter Key Hint	M77		+
Expand Storage Quota	M78		+


Excalidraw
Introducing Excalidraw+
Try out now!
ffffff
Stroke
000000
Background
fa5252
Fill
Stroke width
Stroke style
Sloppiness
Opacity
Layers
Actions
TPAC 2020
TPAC 2021
100%
English


Timeline
Stay in the know
9:15
Home
Malala @Malala · Jul 7
Today is my last day of school and my first day @Twitter [THREAD]
5.1K 42.1K 173.3K
jesar @jesarshah · 32s
Took a car all the way to the top ... what a view
4
Rabiah Damji @rabiahdamji
looks beautiful, let's go together
time!


Explore
See what's happening
9:15
Search Twitter
Sports · 9m
The week's biggest soccer matches.
1032 Likes
Trends for you
1 #WorldNews
39.8K Tweets
2 #GreatestOfAllTime
14.2K Tweets
3 #BreakingNews
12.6K Tweets


Data Saver
Use less data
9:15
Kian
@naturelvr49
831 Following 1,807 Followers
Profile
Lists
Bookmarks
Moments
Settings and privacy
Help Center
Log out
Data saver
Night mode


Microsoft MakeCode for micro:b
https://makecode.microbit.org/#editor
micro:bit
Home
Share
Blocks
JavaScript
Microsoft
Search...
Basic
Input
Music
Led
Radio
Loops
Logic
Variables
Math
Advanced
on start
show icon
0
1
2
3V
GND
A
B
Download
heart

Home

Premium DE

Search

- Home
- Explore
- Subscriptions
- Originals
- YouTube Music
- Library
- History
- Your videos
- Your movies
- Watch later
- Downloads
- Show more

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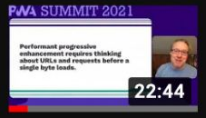
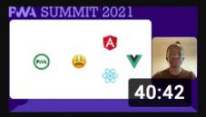
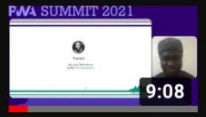
1 

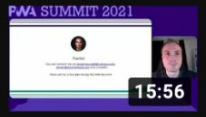
Performant progressive enhancements for PWAs
PWA Summit

2 

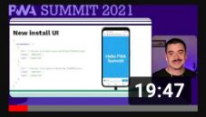
PWAs Today
PWA Summit

3 

New web capabilities and you
PWA Summit

4 

Securing PWA authentication offline
PWA Summit

5 

Make your PWAs look and launch
PWA Summit

Project Fugu

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