



**BE THE
FUTURE**

The text "BE THE FUTURE" is displayed in large, bold, white letters. The letters have a textured, slightly distressed appearance. The background behind the text is a stylized white fox running from left to right, composed of thin white lines forming its body and tail.

**A WebAppok
és a Firefox OS**

Szalai „KAMI” Kálmán

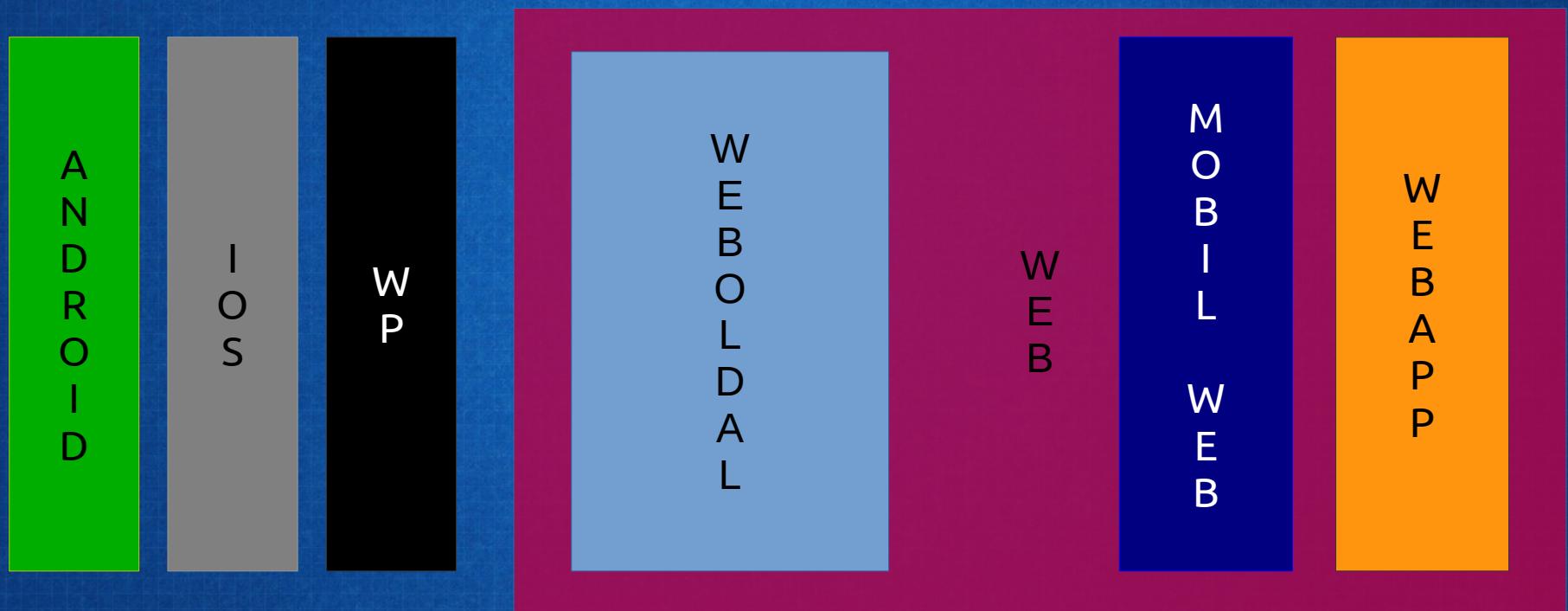
Mozilla Reps

kami911@gmail.com

A web
platform



HTML5 versus Natív



MONTHLY USAGE OF APP AND MOBILE WEB

<http://www.nielsen.com/us/en/reports/2014/an-era-of-growth-the-cross-platform-report.html>



**89% OF THEIR TIME SPENT
ON MEDIA IS THROUGH
MOBILE APPS**

MEN

29 HRS 32 MINUTES

22 HRS 27 MINUTES

WOMEN

30 HRS 58 MINUTES

23 HRS 39 MINUTES

● Q4 2013

● Q4 2012



**11% OF THEIR TIME SPENT
ON MEDIA IS THROUGH THE
MOBILE WEB**

MEN

3 HRS 45 MINUTES

4 HRS 8 MINUTES

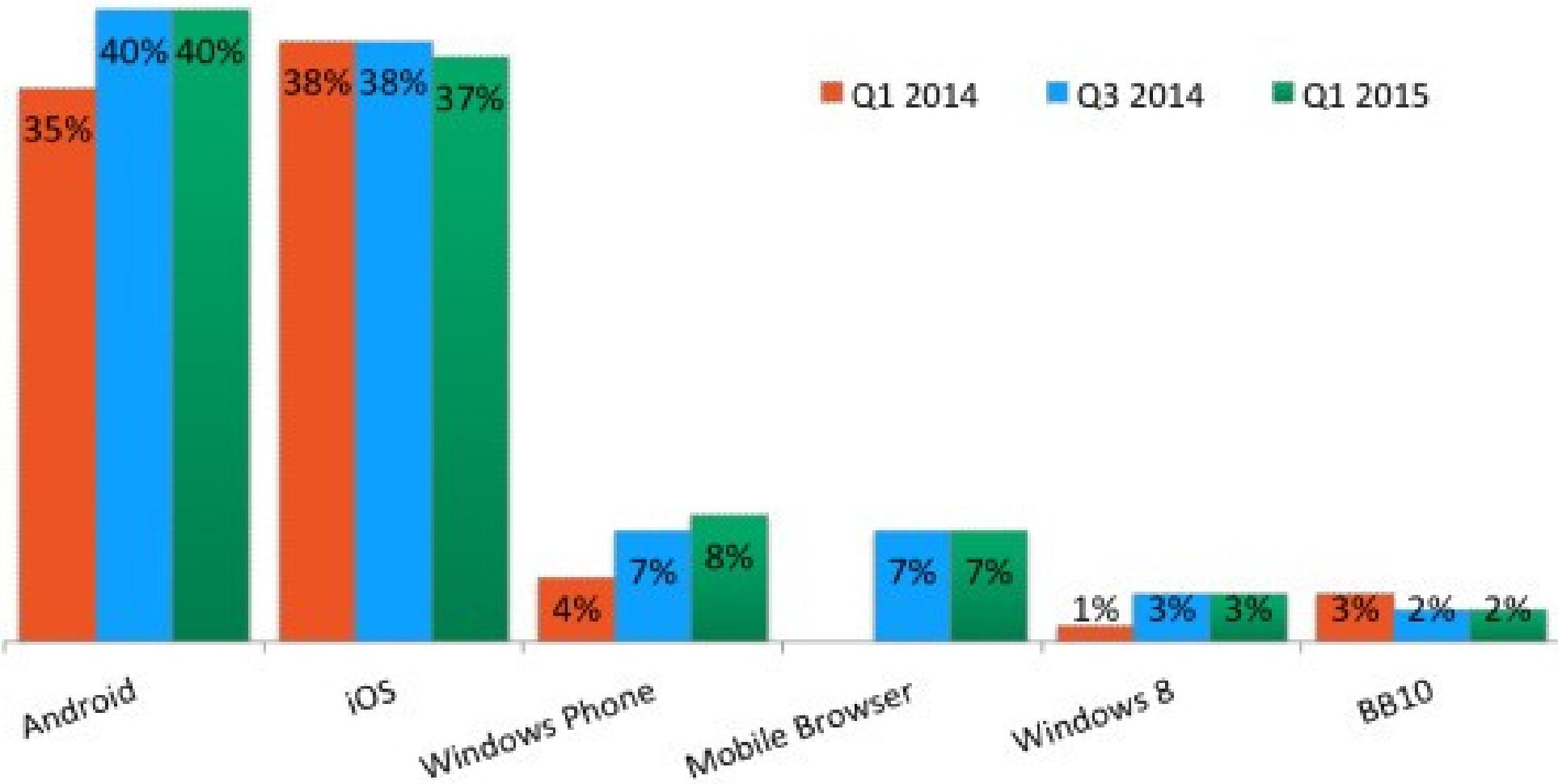
WOMEN

3 HRS 46 MINUTES

4 HRS 30 MINUTES

FULL TIME PROS FOCUS ON THE DUOPOLY

% of full time professional developers prioritizing each platform

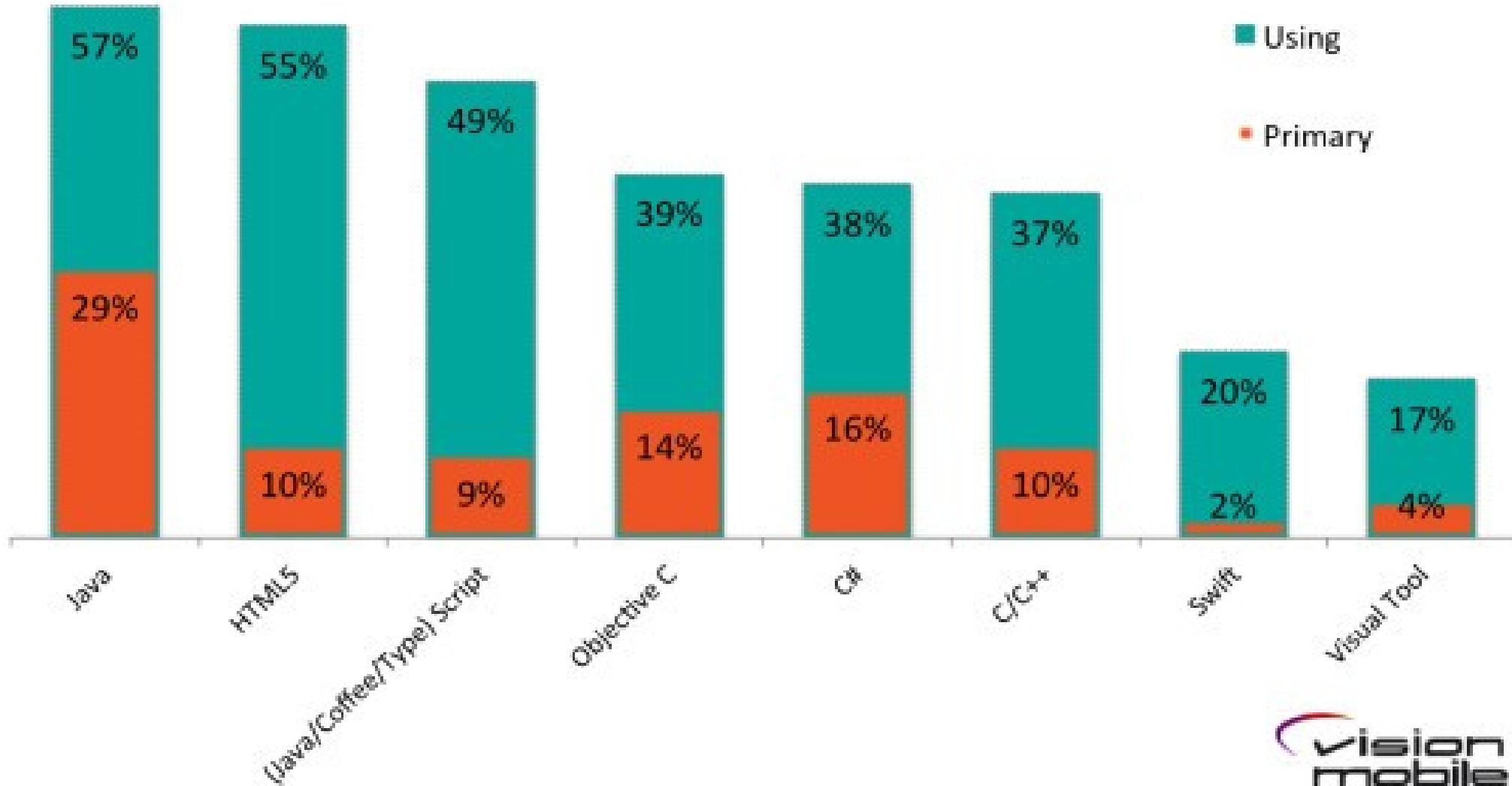


Source: Developer Economics: State of the Developer Nation Q1 2015 | vmob.me/DE1Q15

Licensed under CC BY ND | Copyright VisionMobile | February 2015

THE RISE OF SWIFT – 0-20% IN 4 MONTHS

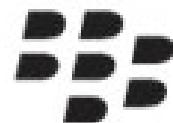
% of developers using and prioritizing each language for device-side development



Source: Developer Economics: State of the Developer Nation Q1 2015 | vmob.me/DE1Q15

Licensed under CC BY ND | Copyright VisionMobile | February 2015

NATIVE APPS



BlackBerry™



ANDROID



Windows
Phone



iOS

vs

HTML



APPS



Native? Hibrid? Web?

Device Access

Speed

Development Cost

App Store

Approval Process

Native

Full

Very Fast

Expensive

Available

Mandatory

Hybrid

Full

Native Speed as Necessary

Reasonable

Available

Low Overhead

Web

Partial

Fast

Reasonable

Not Available

None



Webappok: A Mozilla stílus

HTML



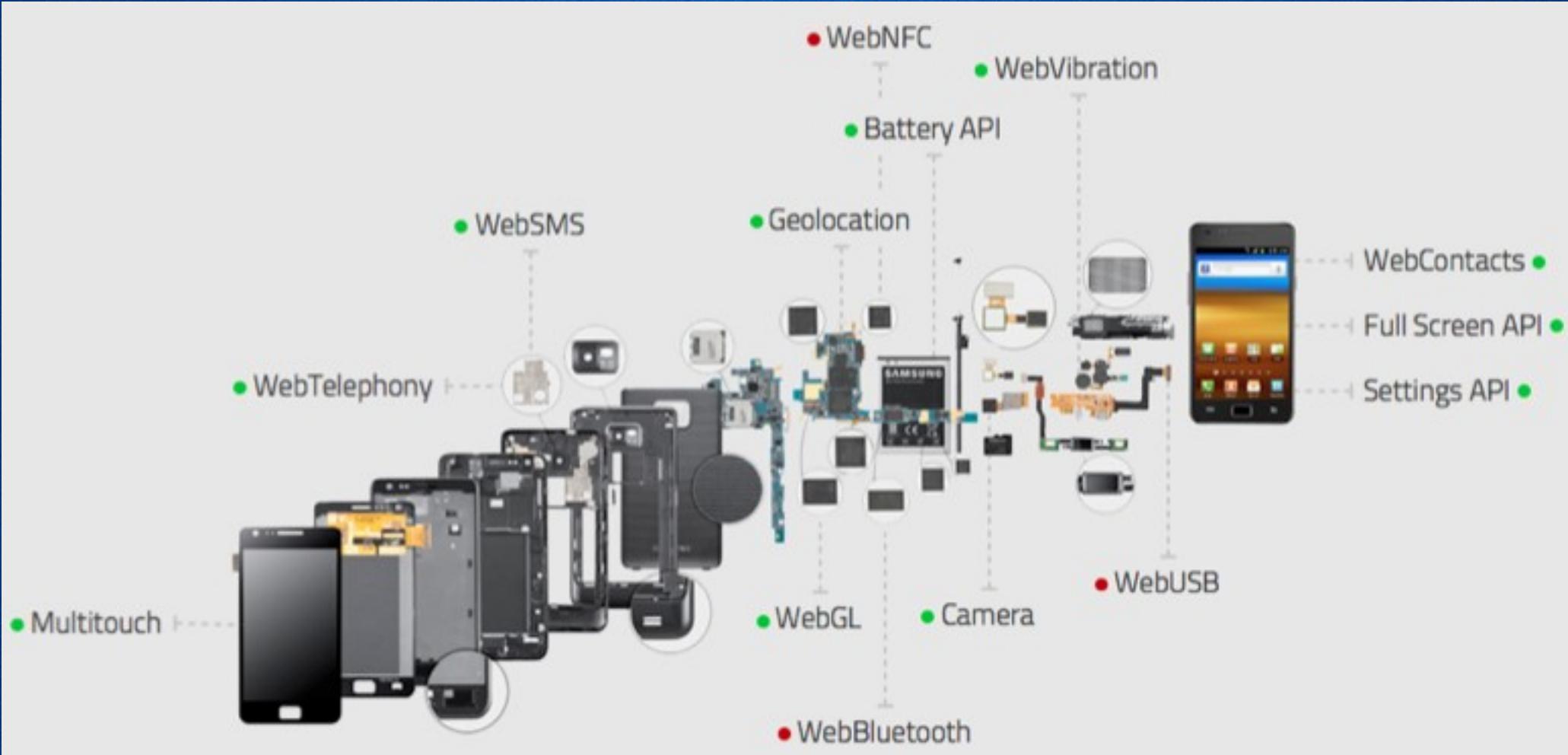
HTML 5
CSS 3
JavaScript

+

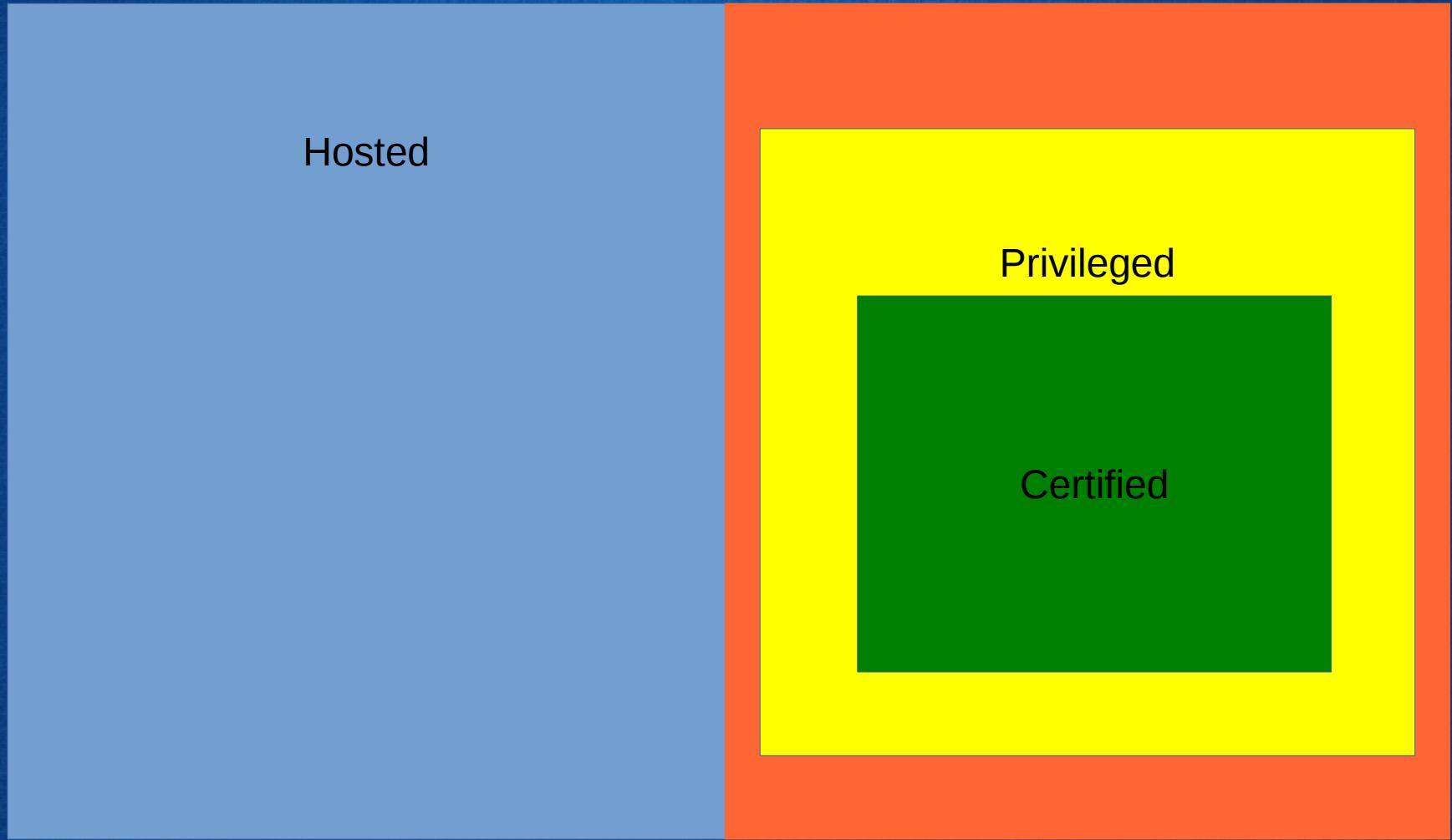
WebAPI-k



WebAPI-k



Webapp biztonsági szintek



Firefox Marketplace





HOME

ÚJ

NÉPSZERŰ

CATEGORIES ▾

Agytorna

Szórakozzon és okosodjon - egyszerre!

Telenor

Rejtett gyöngyszemek

Doodl Jump

Ingyenes

EzUbi

Ingyenes

zMaps

Ingyenes

Froggy Leap

Ingyenes

Face Value

Ingyenes

Springle Chat

Ingyenes

Utazóknak

Find Me Go...

Ingyenes

Booking.com

Ingyenes

Airbnb

Ingyenes

[View all apps](#)

Egészséges élet

FireRunner

Ingyenes

Yoga Guide

Ingyenes

Vibrycing

Ingyenes

Calcula calo...

Ingyenes

Personal Tra...

Ingyenes

bodygarage

545,00 Ft

[View all apps](#)

Appok Magyarországnak

Trafikvadasz

Ingyenes

ORIGO

Ingyenes

Vatera

Ingyenes

MÁV Menetrendszer

Ingyenes

Időzítő

Ingyenes

Elsősegély I...

Ingyenes

Oktatás kiemeltjei

LingQ

Ingyenes

Scientific Ca...

Ingyenes

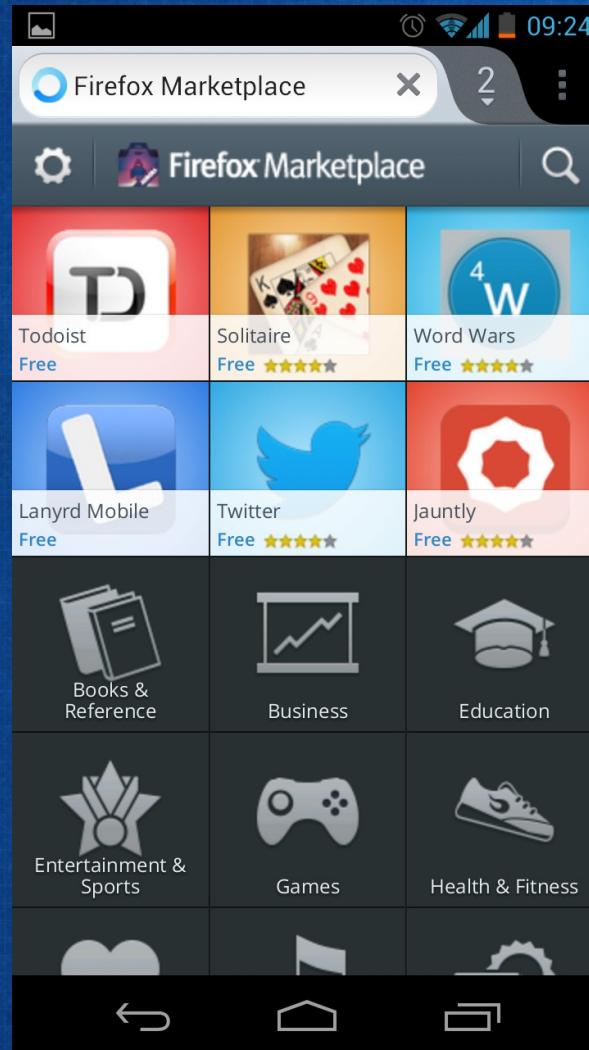
TreeKey

Ingyenes

Video appok

Zene, hírek, szórakoztatás és még több – élvezze a napról napra video tartalmakat a

Cél: meglévő vagy új platform



Az ésszerűség határáig nyílt mobil platform

- Nyilt forráskodú, szabad szoftveres fejlesztés
 - Operációs rendszer (Firefox OS)
 - Böngésző (PC és Android)
 - Piactér (Marketplace)
- Nyitott ökoszisztema
 - Bárki publikálhat web alkalmazást
 - Nincs fejlesztői előfizetés vagy egyszeri díj
 - A feltöltött alkalmazások ellenőrzése
 - Fizetős alkalmazások
 - Fizetés előre vagy az alkalmazásban
 - Számos fizetési opció
 - bankkártya, szolgáltatói számlázás, online pénzküldő
- Független alapítványi háttér





Gaia
UI, Csomagolt appok, Hosztolt appok

Gecko
HTML5, CSS3, JavaScript, WebAPI, WebGL

Gonk
Linux kernel, eszközmeghajtók, HAL

Telefonhardver
(800 MHz → 600 MHz, 512 → 256 → 128 MB RAM)

Shared knowledge
for the Open Web

MDN

Search the docs

[Web APIs & DOM](#)[HTML & HTML5](#)[CSS & CSS3](#)[JavaScript](#)[more...](#)[Firefox](#)[Firefox OS](#)[Firefox Marketplace](#)[App Center](#)[Video](#)[iOS App Navigator](#)[Page Inspector](#)[JavaScript Debugger](#)[Web Console](#)

Get Web technology news from Mozilla, get help from other developers, and more!

[Learn more and sign up!](#)

Mozilla Developer Network

<https://developer.mozilla.org/>

 Create Web Apps Develop Firefox for Android Build Firefox OS

Hacks Blog

[read more at hacks.mozilla.org](#) →

GET INVOLVED

gaia/shared/style at mast... x +

GitHub, Inc. (US) | https://github.com/mozilla-b2g/gaia/tree/master/shared/style Keresés

GitHub This repository Search Explore Features Enterprise Blog Sign up Sign in

mozilla-b2g / gaia Watch 266 Star 1,904 Fork 2,270

Blocks

<https://github.com.mozilla-b2g/gaia/tree/master/shared/style>

branch: master

Revert "Bug 11525" · KevinGrandon · 22 hours ago

action_menu · Bug 1081509 - [BB] update modals to the latest visual design · 6 months ago

buttons · Bug 1131665 - [Contacts] Update Carets · 2 months ago

confirm · Bug 1034961 - Properly ellipsize and display the "+" symbol in add on · 9 months ago

contacts · Bug 971072 - [VDR] [BB] update modals with new Buttons BB · 1 year ago

dialer · Revert "Bug 1017966 - merge pull request #27062 from rohan013:b101796..." · a month ago

drawer · Bug 1035731 - [Shared] - remove unused images · 9 months ago

edit_mode · Bug 1089154 - [Messages] css refinement(clean up and remove certain p... · a month ago

headers · Bug 1035701 - [WebComponents][gaia_header] - check missing images · 9 months ago

Bug 938177 - Add 'browsing' icon to shared/icons.css.r-korandon · 8 months ago

Adatátvitel a következő helyről: avatars3.githubusercontent.com...





Tutorials

Search



September 16, 2014
Getting Started with CSS Shapes:
Wrapping Content around Custom Paths

Using CSS Shapes we can create experiences that we have never been able to create on the web before.

CSS SHAPES



June 26th, 2014

DevTools Digest - Chrome 35: Updates to the Developer Tools In Chrome 35

Updates to the Chrome Developer Tools: CSS property quick search, memory stats for heap snapshots, CodeMirror upgrade and more.



March 26th, 2014

HTML5

Take advantage of the new `<picture>` element and new features of `` in your next responsive website.

HTML5 Rocks

<http://www.html5rocks.com/en/>



May 20th, 2014

Data-binding Revolutions with Object.observe()

Learn about `Object.observe()` - a new feature giving JavaScript the power to directly observe changes to objects.

OBJECT.OBSERVE ES7



March 6th, 2014





mozilla ▾

 Search hacks.mozilla.org[Home](#) [Articles](#) [Demos](#) [About](#)[Follow @mzhacks on Twitter](#)[Visit MozHacks on YouTube](#)[Subscribe to our news feed](#)

Mozilla Hacks is one of the key resources for people developing for the Open Web, talking about news and in-depth descriptions of technologies and features. [Learn more...](#)

Hacks

Mozilla Hacks

<https://hacks.mozilla.org/>

<https://www.youtube.com/user/mozhacks/playlists>

RECENT ARTICLES [More »](#)
[SVG & colors in OpenType fonts](#)

October 23, 2014 • by Johannes Lang and Robert Nyman [Editor] • SVG • No comments yet

Prolog Until recently having more than one color in a glyph of a vector font was technically not possible. Getting a polychrome letter required multiplying the content for every color. Like it happened with many other techniques before, it took some time for digital type [Read more...](#)

The Visibility Monitor supported by Gaia

October 22, 2014 • by John Hu and Robert Nyman [Editor] • Firefox OS • No comments yet

With the booming ultra-low-price device demands, we have to more carefully calculate

FEATURED CHANNELS

[Read & Write, for Firefox Developer Tools](#)

- Ideas to improve the Open Web

STACK OVERFLOW

- Mozilla tags
- Firefox OS
- Firefox Developer Tools



[Sign in](#)

English (US) ▾

[Explore](#)[Tools](#)[Resources](#)[Events](#)[Info](#) Search

X-Ray Goggles Thimble Popcorn Maker Appmaker

Create and remix the web with Webmaker tools.

WebMaker

X-Ray Goggles

See how the web works

X-Ray Goggles allow you to see the building blocks that make up websites on the internet. Activate the goggles to inspect the code behind any webpage, then remix elements with a single click, swapping in your own text, images and more.

You can build:

- a custom homepage for the New York Times
- an alternate version of a controversial webpage
- a funny remix of your best friend's favorite site
- and more!

Thimble

Webmaking made easy

Thimble makes it ridiculously simple to build and share your own web pages. Write and edit HTML and CSS right in your browser, then instantly preview your work. Host and share your finished projects with a single click. Perfect for beginners and experts alike.

You can build:

- a personalized greeting card
- an online poster for your favorite movie
- a hilarious meme
- and more!

Popcorn Maker

Supercharge web video

Popcorn Maker helps you easily embed video, audio and images into cool mashups that you can embed on other websites. Drag and drop content from the web, then add your own comments and links—all within your browser. Popcorn Maker videos are dynamic, full of links and unique with every view.

You can build:

- an animated gif with sound
- a documentary with dynamic links
- a video profile to introduce yourself to the world

Appmaker

Mobile apps made easy

Appmaker is a free tool for creating personal mobile apps, even if you don't know code! Combine individual bricks to create and share custom mobile apps right in your web browser.

You can build:

- an app to chat with your friends
- a music-making app
- a personal goal tracker
- and more!

[Get started](https://webmaker.org/)





Page 1

+



Sign In

Webmaker.org

Brick Project

Add Bricks

Search by name, tag, or description...

All Bricks Basic Utility

Connection Number Media Fun

Chat

Basic Bricks

Simple bricks useful for almost every app.

Button

Counter

Header

Image

Menu

Metronome

Spacer

Text



AppMaker

<https://apps.webmaker.org/>





Develop HTML5 Web Apps for an open marketplace.

Design

Learn how to design apps that provide a user experience optimized for Firefox OS & Mobile

Concepts
Create App
Design Game
Guidelines

Build

All the tools, docs and references you'll need for development and testing of your app

Quick Start
Firefox OS Simulator
Relocate Apps

Publish

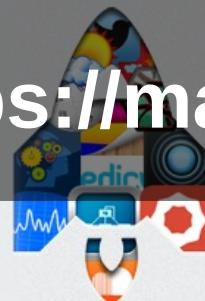
Find out how to distribute your apps on an open marketplace that puts users and developers first

Deploying Your App
Firefox Apps
Packaged Apps

webA^pps

Do you have an app ready for liftoff?

Submit your app to the Marketplace



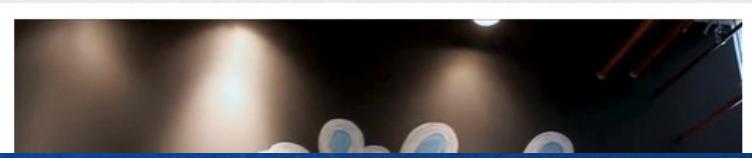
Join our community

Join who's already there. Are you a Web Company, Third-Party Service, or OEM looking to partner with Mozilla? Check out our Partners page for more info.

<https://marketplace.firefox.com/developers/>

The Mozilla apps platform

Building apps for the Web provides developers with full control over content, functionality and how apps are distributed, including access to hundreds of millions of Firefox users through the Firefox Marketplace.




[Home](#) » [Articles](#) »

[« Older Article](#)
[Newer Article »](#)

Black Box Driven Development in JavaScript

 on August 27, 2014 by [Krasimir Tsonev](#) and [Robert Nyman \[Editor\]](#) in [JavaScript](#)
[35 comments](#) [Share This](#)

Sooner or later every developer finds the beauty of the design patterns. Also, sooner or later the developer finds that most of the patterns are not applicable in their pure format. Very often we use variations. We change the well-known definitions to fit in our use cases. I know that we (the programmers) like **buzzwords**. Here is a new one – Black Box Driven Development or simply BBDD. I started applying the concept before a couple of months, and I could say that the results are promising. After finishing several projects, I started seeing the good practices and formed three principles.

What is a black box?

Before to go with the principles of the BBDD let's see what is meant by a black box. According to [Wikipedia](#):

In science and engineering, a black box is a device, system or object which can be viewed in terms of its input, output and transfer

ABOUT THE AUTHORS

Krasimir Tsonev


Krasimir Tsonev is a front-end developer, blogger and speaker. He loves writing JavaScript and experimenting with the latest CSS and HTML features. Author of the "Node.js blueprints" book he is focused on delivering cutting edge applications. Krasimir started his career as graphic designer, he spent several years coding in ActionScript3. Right now, with the rise of the mobile development, he is enthusiastic to work on responsive applications targeted to various devices. Living and working in Bulgaria he graduated at the Technical University of Varna with bachelor and master degree in computer science.





Apps



Device



Help

 **Open Web App**
Your new awesome Open Web App HOSTED

Battery HOSTED
Battery provides a good template for an in-app battery/charge indicator with different visualization choices, plus ideas of what could be changed once battery level gets low.

 **Open Web App** VALID HOSTED

Your Name
<http://people.mozilla.org/~cmills/app-template/manifest.webapp>

Your new awesome Open Web App

UPDATE DEBUG

Add Packaged App



Add Hosted App

<http://example.com/app/manifest.webapp>

Connected to B2G

Disconnect

App Manager

```
13:24:18: disconnecting
13:24:38: disconnected
13:30:35: connecting to localhost:4000
13:30:39: connected
```



Firefox OS Simulator

Simulator Running

This add-on only supports the included Firefox OS 1.1 simulator and pushing apps to 1.1 devices. To work with newer Firefox OS simulators and devices, please use the App Manager.

[More information](#)

Dashboard

Add Directory

URL for page or manifest.weba

Add URL

Help

No Apps Installed



Firefox OS Szimulátor



Firefox WebIDE: my-app

Select Runtime ▾

my-app

my-app

css/
app.css

data/
en-US.properties
es.properties
locales.ini

img/
icons/
icon.svg
icon128x128.png
icon16x16.png
icon48x48.png
icon60x60.png

js/
libs/
I10n.js
*app.js

index.html
LICENSE
manifest.webapp
README.md

```
1 // DOMContentLoaded is fired once the document has been loaded and parsed
2 // but without waiting for other external resources to load (css/images/etc)
3 // That makes the app more responsive and perceived as faster.
4 // https://developer.mozilla.org/Web/Reference/Events/DOMContentLoaded
5 window.addEventListener('DOMContentLoaded', function() {
6
7     // We'll ask the browser to use strict code to help us catch errors early
8     // https://developer.mozilla.org/Web/JavaScript/Reference/Functions_and_expressions#use_strict
9     'use strict';
10
11     var translate = navigator.mozL10n.get;
12
13     // We want to wait until the localisations library has loaded all the strings
14     // So we'll tell it to let us know once it's ready.
15     navigator.mozL10n.once(start);
16
17     // ---
18
19     function start() {
20         d|
21     }
22 });
23
24 );
```

decodeURI
decodeURIComponent
devicePixelRatio
dispatchEvent
document

Decodes a Uniform Resource Identifier (URI) previously created by encodeURI or by a similar routine.

WebIDE





Firefox

Firefox®

Developer Edition



Built for those who build the Web



<https://www.mozilla.org/hu/firefox/channel>

Firefox Aurora and Firefox Developer Edition automatically send feedback to Mozilla. [Learn more.](#)

Mozilla Developer N... X A Website X +

https://developer.mozilla.org/en-US/ Google

App Center Add-ons

image.android | 434 x 168 more...

Develop Firefox for Android Build Firefox OS

Inspector Console Editor Network header.mission

Rules Computed Fonts Box

element {}

.imageContainer:last-child { margin-bottom: 0px; }

.imageContainer { float: left; margin-right: 40px; margin-bottom: 80px; width: 100%; color: white; font-family: Menlo,Consola, monospace

```
-- window Section [Start] -->
<div class="section section-mainWindow">
<div class="sectionInner">
  <!-- subSection [Start] -->
  <div class="subSection generalColors">
    <div class="subSectionLabel"><a name="sectionWindow"></a>Window</div>
    <div class="subSectionContent">
      <div class="imageContainer">
        <div class="imageName">Dimensions</div>
        <div class="imageDescription">Top/"Titlebar" 16px | Left, Right, Bottom 5px</div>
        <div class="imageBox"></div>
```



Hack Firefox OS's Gaia

<https://github.com/mozilla-b2g/gaia>

<https://wiki.mozilla.org/B2G>



Mozilla Közösség

- Firefox OS
 - <https://www.facebook.com/fxos.hu>
 - <https://www.mozilla.org/hu/firefox/os/>
 - <https://plus.google.com/u/0/communities/103014232626387772793>
- Firefox és a többiek
 - <https://www.facebook.com/MozillaHU>
 - <https://www.mozilla.org/hu/>
- Csatlakozz Te is!
 - <http://is.gd/onkentes>





BLAZE YOUR OWN PATH



Kérdések? Észrevételek?

Részt vennél?

Szalai „KAMI” Kálmán

kami911@gmail.com

@kami911kami

[linkedin.com/in/kami911](https://www.linkedin.com/in/kami911)