Pontificia Universidad Católica de Chile
Escuela de Ingeniería
Departamento de Ciencia de la Computación

Web Assembly

Tecnologías y Aplicaciones Web

Gabriel Vidal Salazar

World Wide Web

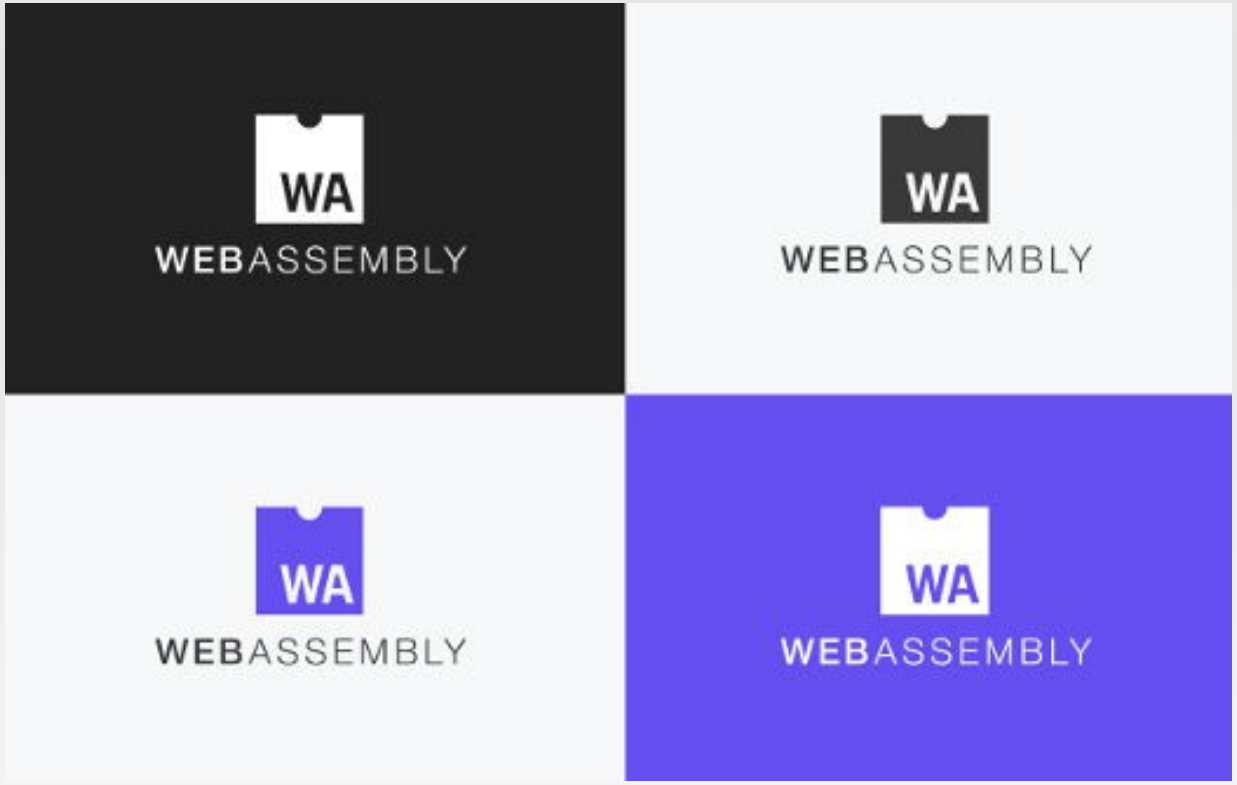
The WorldWideWeb (W3) is a wide-area hypermedia information retrieval initiat

Everything there is online about W3 is linked directly or indirectly to this docum
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 ,X
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.

Source: Link

Complejidad



https://webassembly.org

Source: I Programmer

```
int factorial(int n) {
  if (n == 0) {
    return 1;
  } else {
    return n * factorial(n - 1);
  }
}
```

```
00 61 73 6D 01 00 00 00 01
86 80 80 80 00 01 60 01 7F
01 7F 03 82 80 80 80 00 01
00 06 81 80 80 80 00 00 0A
9D 80 80 80 00 01 97 80 80
80 00 00 20 00 41 00 46 04
40 41 01 0F 0B 20 00 41 01
6B 10 00 20 00 6C 0B
```

Source: JavaScript January

Juguemos!

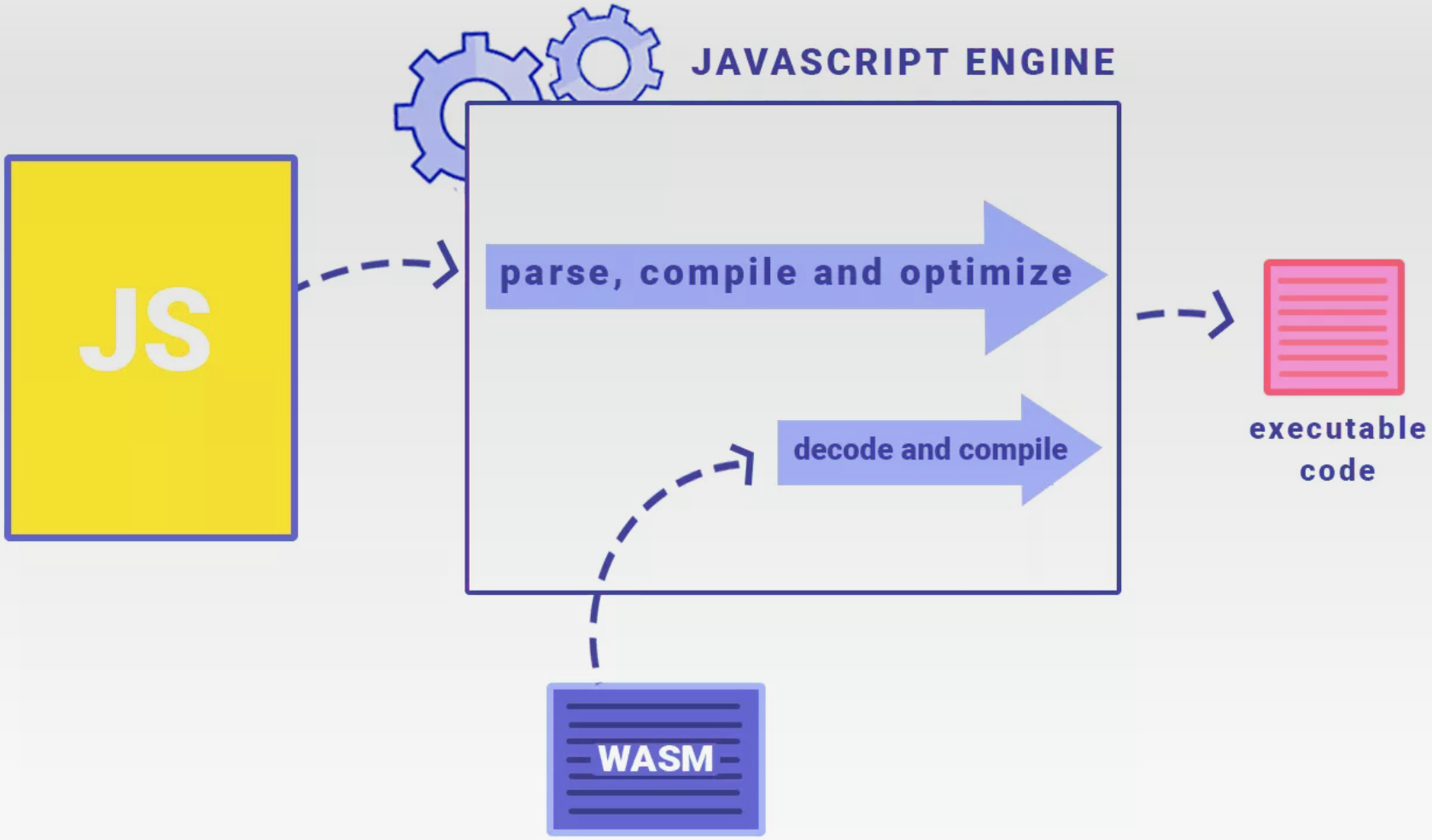
Otros ejemplos: GitHub MDN

Source: LogRocket Blog

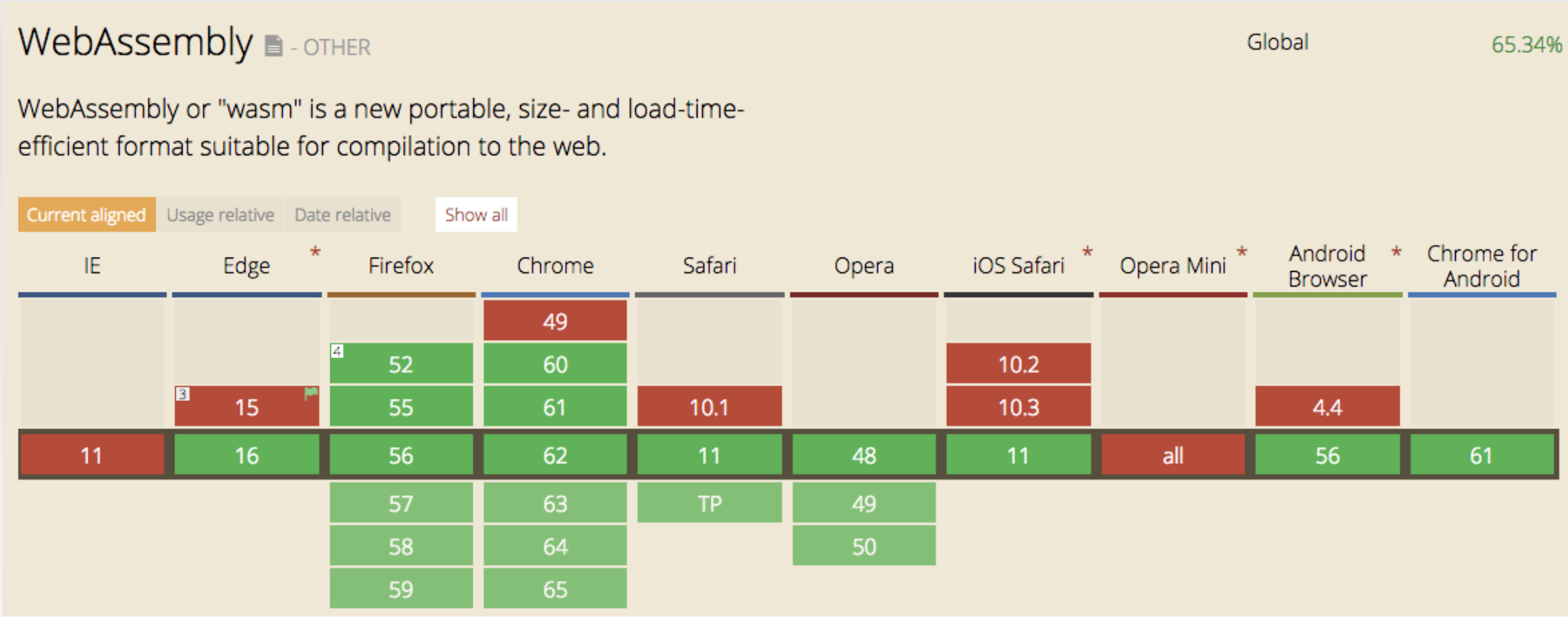
```
var wasmExports;

fetch('examples.wasm')
  .then(response =>
    response.arrayBuffer())
  .then(buffer => {
    let codeBytes = new Uint8Array(buffer);
    try {
      WebAssembly.compile(codeBytes)
        .then(module => {
          let instance = new WebAssembly.Instance(module);
          wasmExports = instance.exports;
        })
    } catch (e) {
      alert("Error: " + e);
    }
  });
```

Source: Magenic



Source: LogRocket Blog



WebAssembly - OTHER

Global 65.34%

WebAssembly or "wasm" is a new portable, size- and load-time-efficient format suitable for compilation to the web.

Current aligned | Usage relative | Date relative | Show all

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			49						
		4 52	60			10.2			
	3 15	55	61	10.1		10.3		4.4	
11	16	56	62	11	48	11	all	56	61
		57	63	TP	49				
		58	64		50				
		59	65						

Source: Medium

Otro demo

Otros ejemplos: GitHub MDN