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XMAS DEV 2022



BABBO NATALE E LE LETTERINE SCRITTE IN LINGUAGGI DIVERSI

Come ha risolto il problema Babbo Natale?

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UN PROBLEMA DI ... TRASMISSIONE DI LETTERINE





1989 – *Tim Berners-Lee*

Che fatica questi elfi





1995 – *Bernard Eich*

JavaScript ... e nulla fu più come prima!

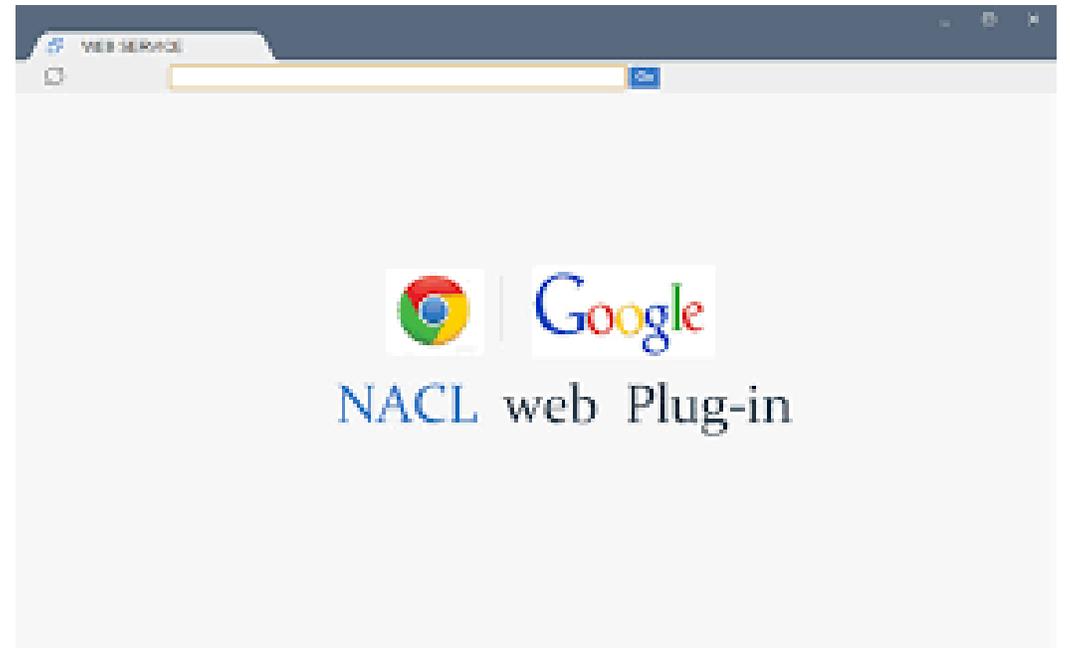


JavaScript



2011 - *Google*

Sul mio browser funziona!





2013 - *Mozilla*

Asm.js - Forse ci siamo



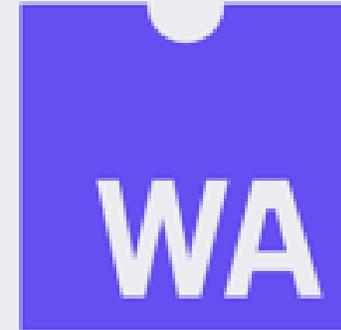


 2015 – *Brendan Eich.. ancora!*





2015 – *Brendan Eich..* ancora!
Finalmente WebAssembly



WEBASSEMBLY



CHI HA BISOGNO DI WASM?



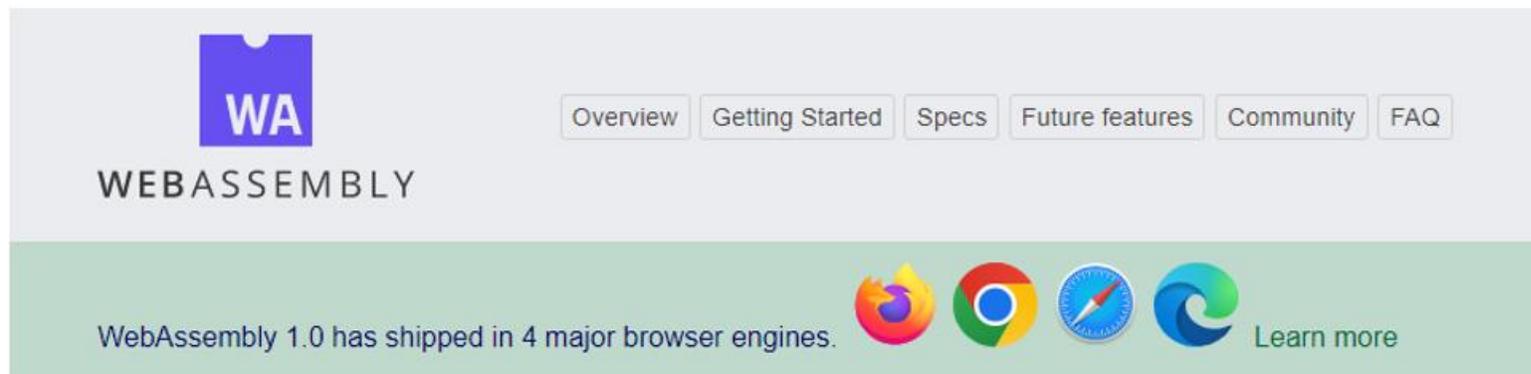


CHI HA BISOGNO DI WASM?





COS'È WEBASSEMBLY?



WebAssembly (abbreviated *Wasm*) is a binary instruction format for a stack-based virtual machine. Wasm is designed as a portable compilation target for programming languages, enabling deployment on the web for client and server applications.

JAVASCRIPT IS DEAD. LONG LIVE JAVASCRIPT!



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WebAssembly



VS

JavaScript





USE CASE: OTTIMIZZAZIONE IMMAGINI NEL BROWSER

Edit >_ <>

Resize

Reduce palette

Compress

MozJPEG ▾

Quality: 75

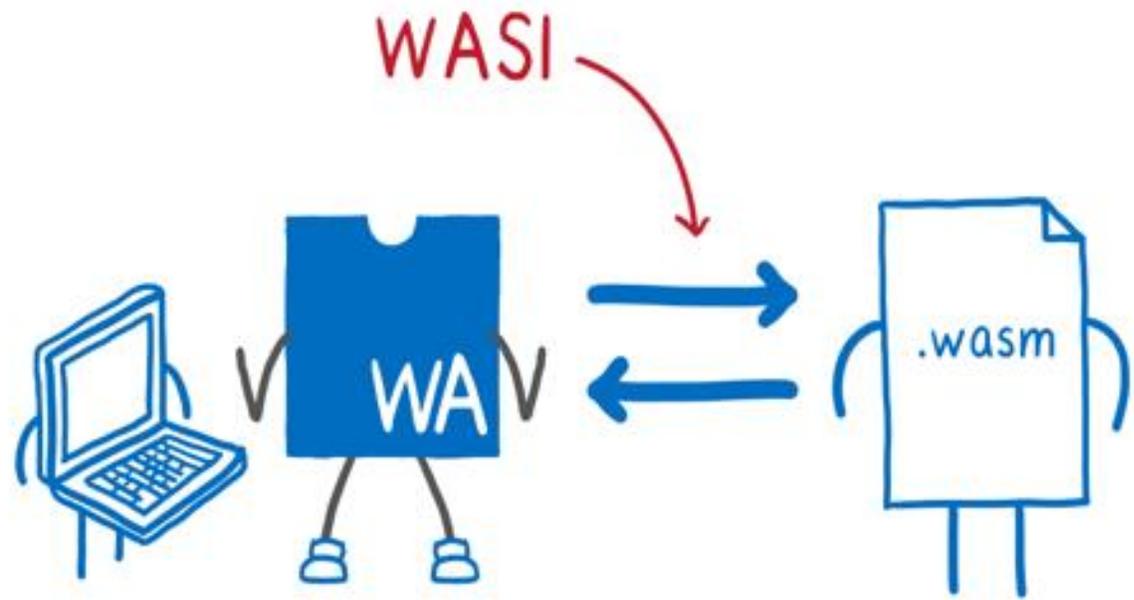
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1.20 MB ↓ 57%

↓ 69% 862 kB

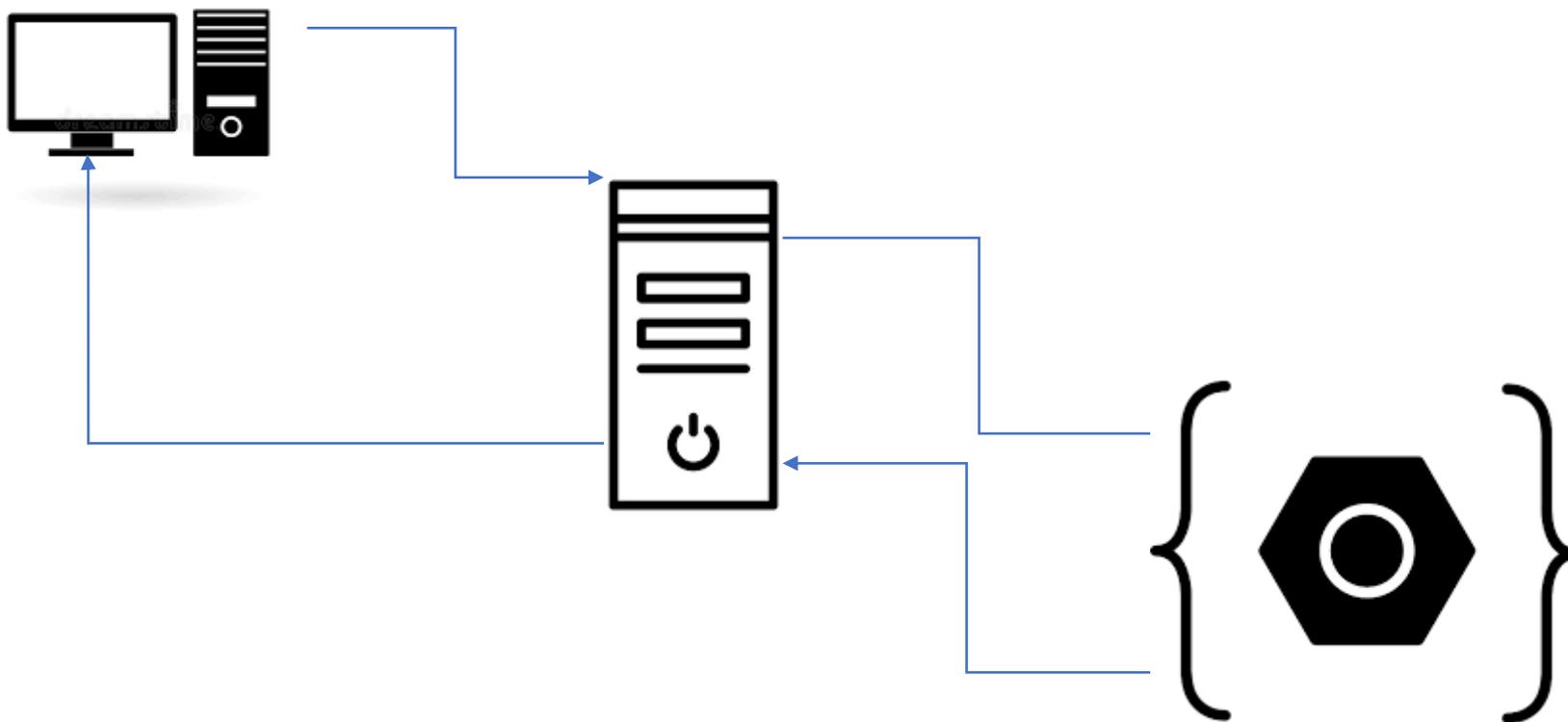


wasi





WAGI





WEBASSEMBLY AND .NET



- Enhanced debugging
- Hot reload improvements
- Expanded web crypto
- Improved JavaScript interop
- Multithreading (preview)



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PRIMO REGALO DI BABBO NATALE



WEBASSEMBLY SOSTITUIRÀ DOCKER?

Solomon Hykes @solomonstre

If WASM+WASI existed in 2008, we wouldn't have needed to create Docker. That's how important it is. Webassembly on the server is the future of computing. A standardized system interface was the missing link. Let's hope WASI is up to the task!

Lin Clark @linclark
WebAssembly running outside the web has a huge future. And that future gets one giant leap closer today with...

📄 Announcing WASI: A system interface for running WebAssembly outside the web (and inside it too)
hacks.mozilla.org/2019/03/standa...

4:39 PM · Mar 27, 2019

[Read the full conversation on Twitter](#)

2.1K · Reply · Copy link

[Read 31 replies](#)

Solomon Hykes @solomonstre · Follow

"So will wasm replace Docker?" No, but imagine a future where Docker runs linux containers, windows containers and wasm containers side by side. Over time wasm might become the most popular container type. Docker will love them all equally, and run it all :)

Solomon Hykes @solomonstre

If WASM+WASI existed in 2008, we wouldn't have needed to create Docker. That's how important it is. Webassembly on the server is the future of computing. A standardized system interface was the missing link. Let's hope WASI is up to the task!

4:50 AM · Mar 28, 2019

162 · Reply · Share

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DOCKER LOVES WEBASSEMBLY

“

The Docker+wasm announcement makes perfect sense. We no longer live in a single-runtime world: there are Linux containers, windows containers, and wasm containers. OCI can package them all, I should be able to build and run them all with @docker. — [Solomon Hykes](#), co-founder of Docker.

WASM
IS AWESOME

WHAT'S NEW

Docker + Wasm = Awesome!

Wasm is a new, fast and light alternative to the Linux/Windows containers you're using in Docker today — give it a try with the Docker+Wasm Technical Preview.

→ [Try it](#)



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SECONDO REGALO DI BABBO NATALE



Wasm

is

Awsm!

A stylized white outline of a Christmas tree with a star on top, a horizontal bar for branches, and a wavy base.

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THANKS



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[Stefano Maffeis](#)



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