

Servo in 2023

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RustNL 2023



Servo

- New browser engine created at Mozilla Research in 2012
- Now part of the Linux Foundation
- Written from the ground-up in Rust
- Components of Servo are core pieces of Firefox

```
commit ce30d4520d67f2c6ef960571a9b3e450c5dcbebe  
Author: Dave Herman <dherman@mozilla.com>  
Date:   Wed Feb 8 11:29:12 2012 -0800
```

```
initial add
```

How old is your browser?

- Firefox: 1997

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- Chrome: 2008

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- ~~Chrome: 2008~~
- WebKit: 2005

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- Firefox: 1997
- ~~Chrome: 2008~~
- ~~WebKit: 2005~~
- KHTML: 1998



The software we use to access the
web is 25 years old.

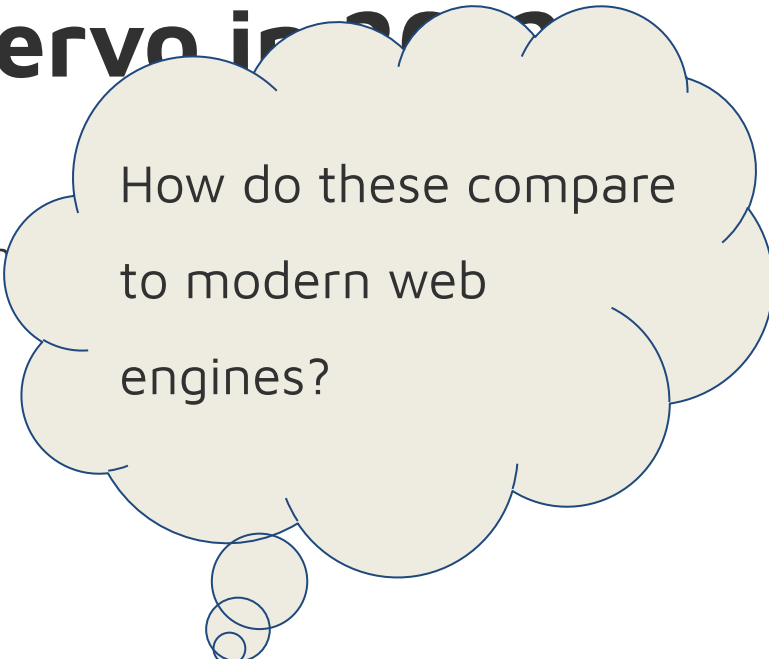


Servo in 2012

- Process separation
- GPU rendering
- Layout parallelism
- Memory safety

Servo in 2008

- Process separation
- GPU rendering
- Layout parallelism
- Memory safety



How do these compare
to modern web
engines?

Servo in 2012

- Process separation (👍 widely available)
- GPU rendering (👍 widely available)
- Layout parallelism (🔨 planned)
- Memory safety (🦄 a fantasy)



tomorrow
belongs to those who embrace it
today



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Chrome: 70% of all security bugs are memory safety issues

Google software engineers are looking into ways of eliminating memory management-related bugs from Chrome.

Servo in 2023

- Layout parallelism
- Memory safety
- Focus on lightweight embeddable web engine
- Accessible testbed for new techniques

Building Web Engines in 2023

- Web platform is bigger and more complex
- Fewer browser engines
- Standards more complete
- Massive amount of tests (Web Platform Tests, etc)

Goals

- Reduce friction for new contributors
 - Better documentation
 - Work on code health and simplicity
- Adapt layout for fragmentation (lines, columns, pages)
- Back to the basics: `<iframe>`, navigation, DOM, embedding

Get Involved

- [Try](#) Servo
- Join the [Zulip](#)
- File a bug and work on features
- Submit a pull request on [GitHub](#)



Thank you!