@MyWebUniversity

<web/>

HTML

CSS

JS

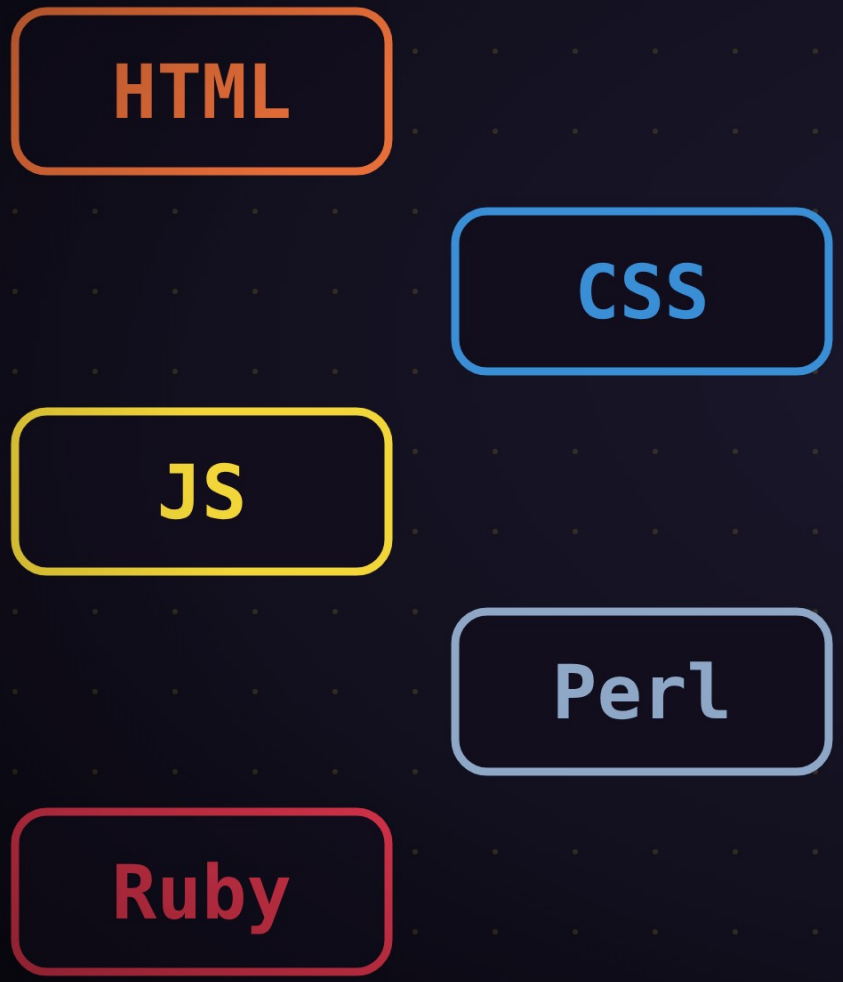
Perl

Ruby

The Languages That Built the Web

HTML · CSS · JavaScript · Perl · Ruby

JAVASCRIPT IN 10 DAYS



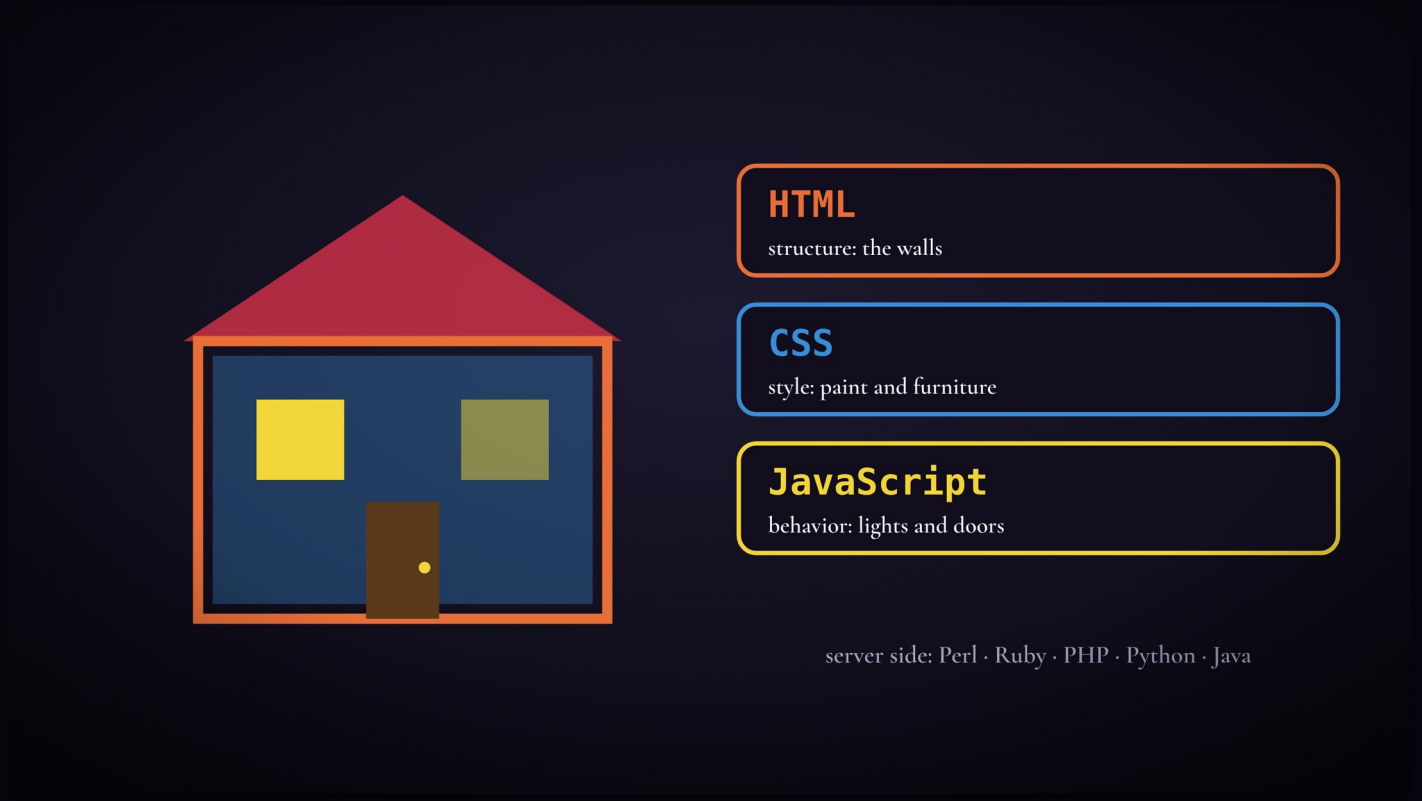
A MYWEBUNIVERSITY STORY

<web/>

The Languages That Built the Web

HTML · CSS · JavaScript · Perl · Ruby

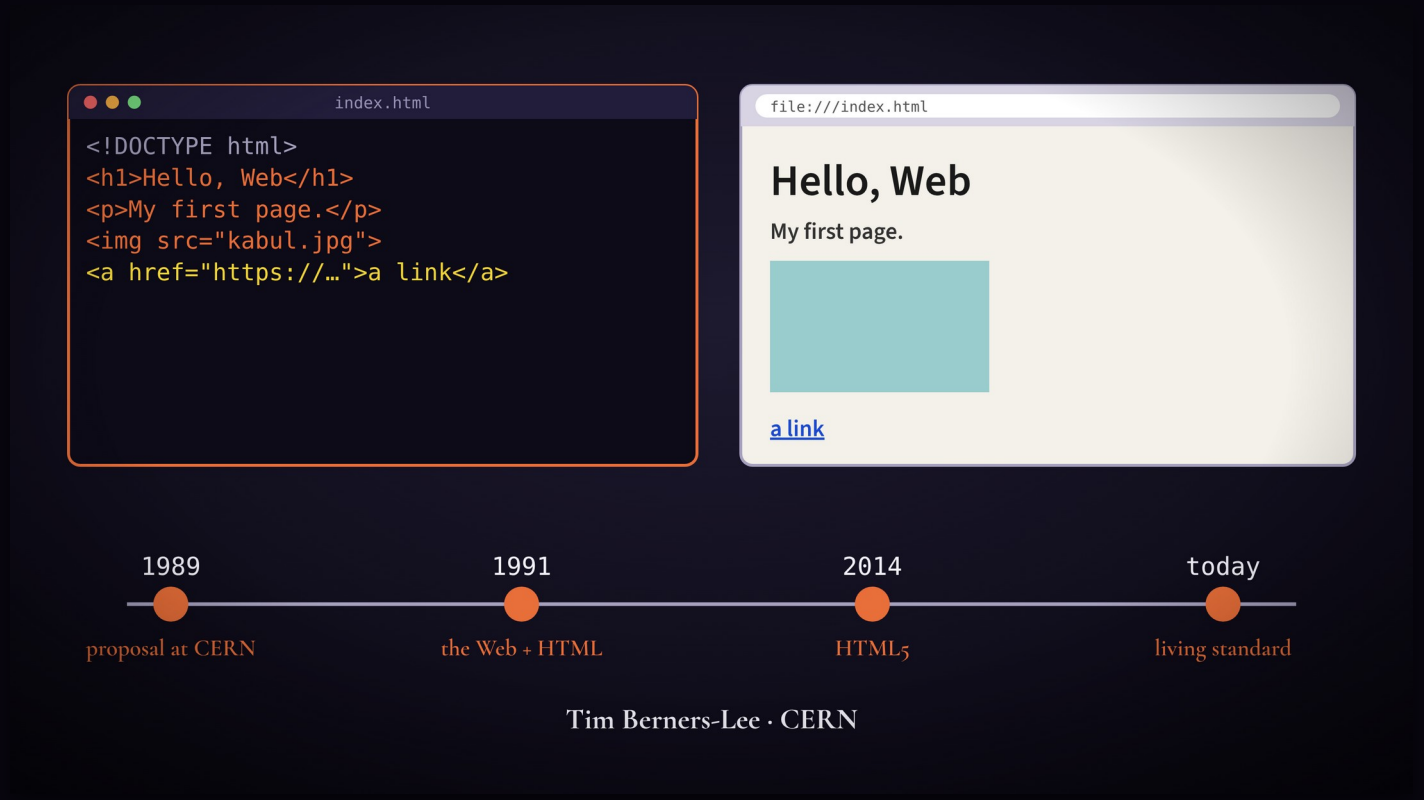
Three Layers of Every Web Page



- HTML = structure · CSS = style · JavaScript = behavior
- Server side: Perl, Ruby, PHP, Python, Java
- Servers build pages and talk to databases

01

HTML: Tim Berners-Lee, 1991



- 1989 proposal · 1991: the Web and HTML (Tim Berners-Lee, CERN)
- Tags: headings, paragraphs, images, links
- 2014: HTML5 · today: HTML Living Standard

02

CSS: Style Separated from Structure



- 1994: Håkon Wium Lie proposes CSS
- 1996: CSS level 1 (with Bert Bos)
- Flexbox · grid · media queries (responsive)

03

JavaScript in Ten Days



- May 1995: Brendan Eich, Netscape, ~10 days
- Mocha → LiveScript → JavaScript (not Java!)
- 1997: ECMAScript · 2015: ES6 (classes, modules)

04

JavaScript Everywhere



- 2008: V8 engine (Google)
- 2009: Node.js (Ryan Dahl)
- React · Angular · Vue · TypeScript

05

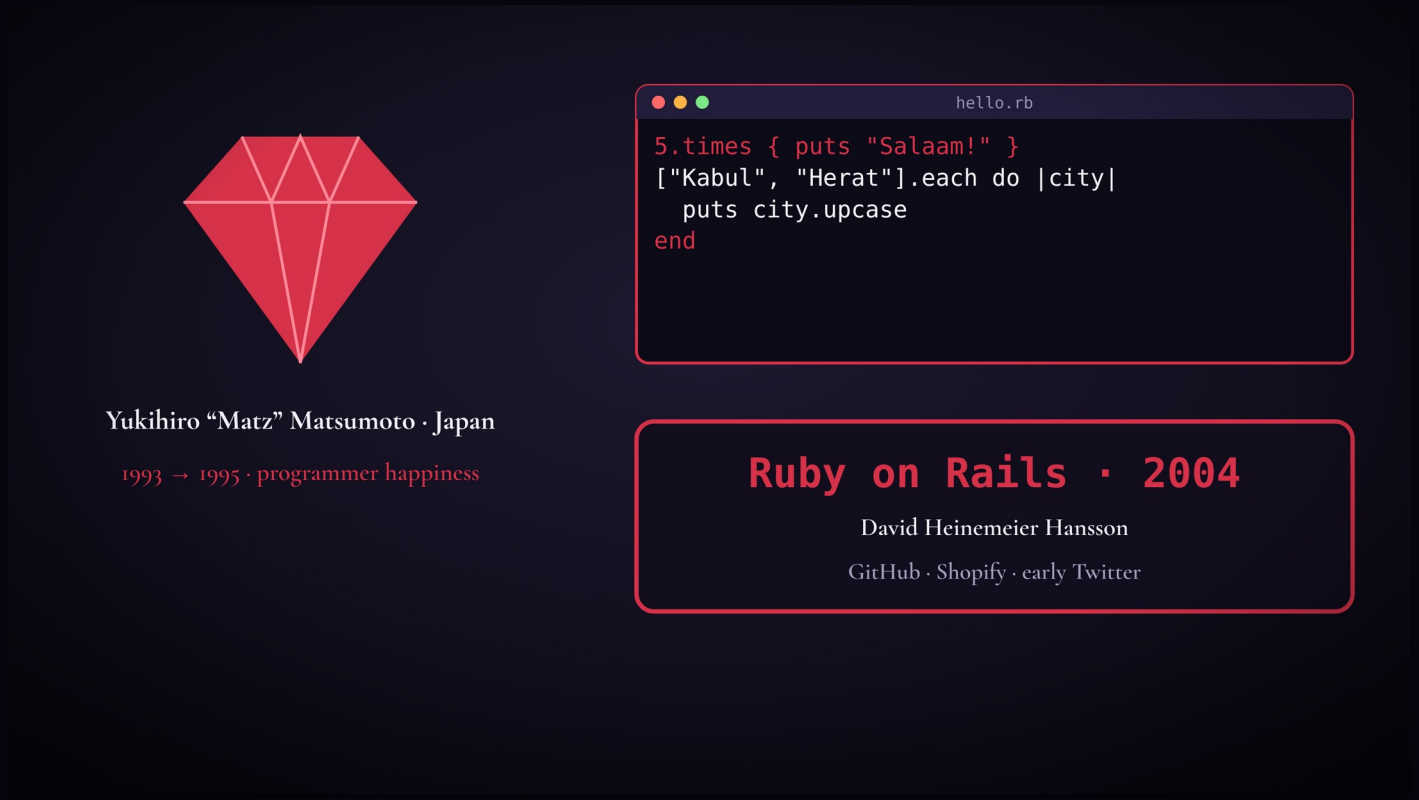
Perl: The Duct Tape of the Internet



- 1987: Perl (Larry Wall): C + sed + AWK + shell + regex
- 1990s CGI web · “duct tape of the internet”
- TMTOWTDI · Perl 5 maintained · Perl 6 → Raku (2019)

06

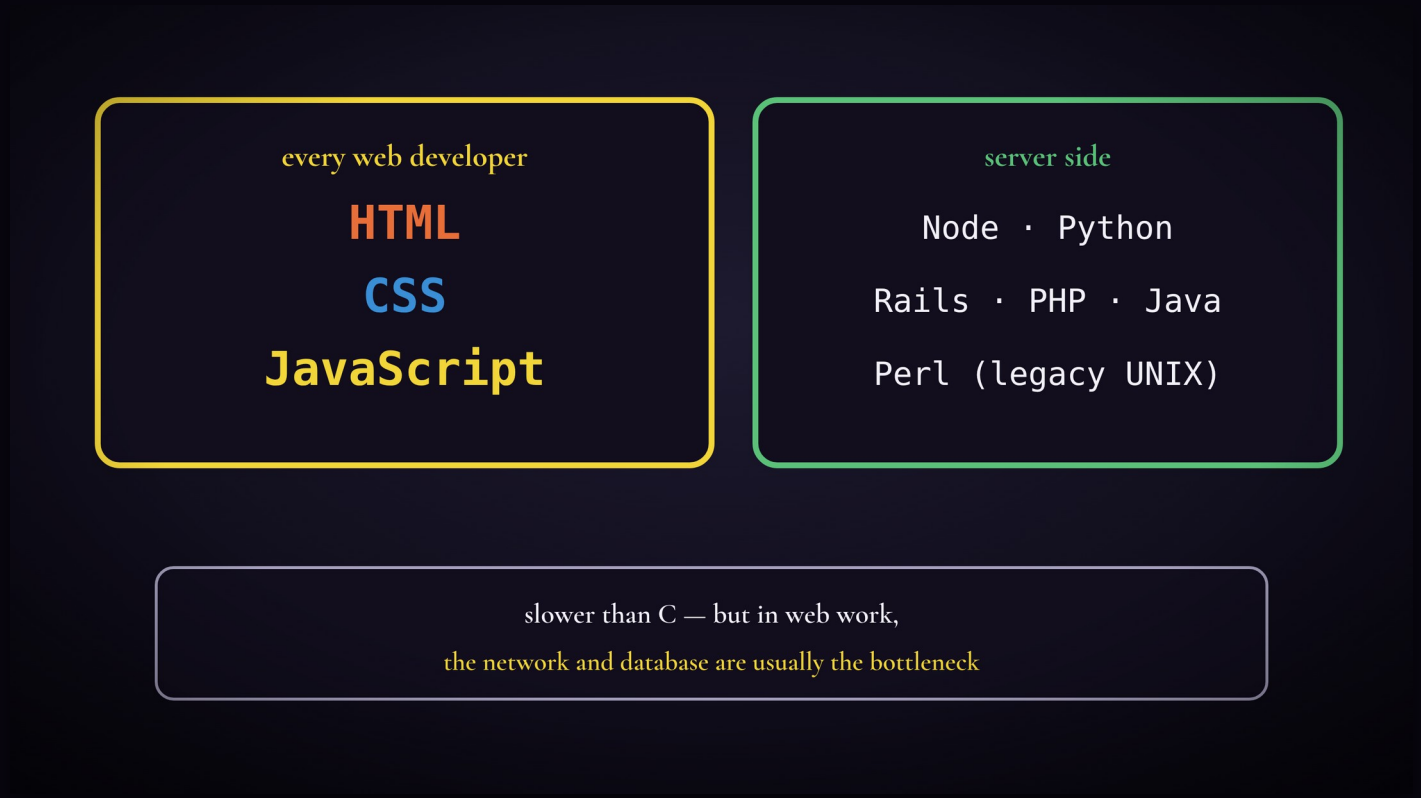
Ruby: Programmer Happiness



- 1993–1995: Ruby (Yukihiro “Matz” Matsumoto, Japan)
- Programmer happiness · everything is an object
- 2004: Ruby on Rails (DHH) · GitHub, Shopify

07

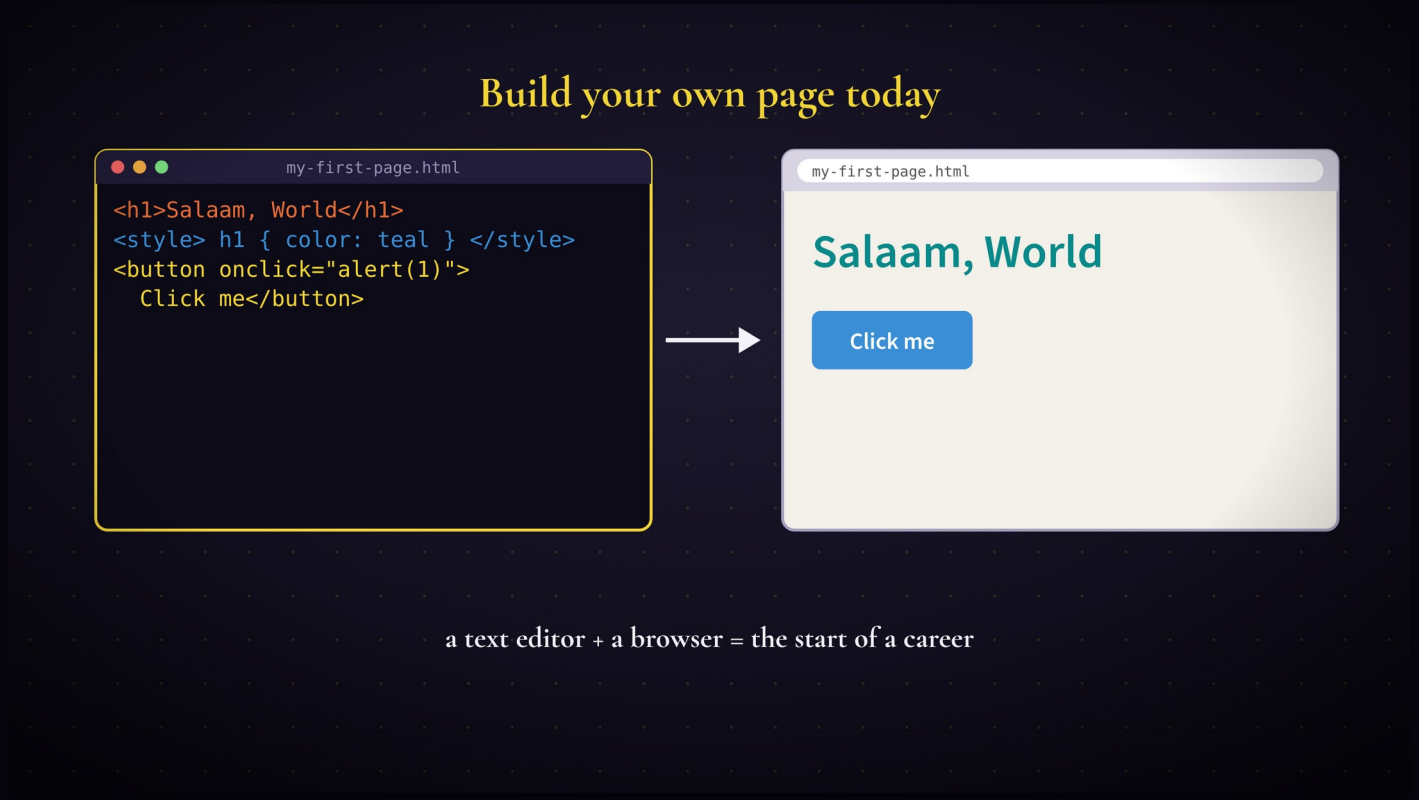
Which One Should You Learn?



- Must learn: HTML, CSS, JavaScript
- Server: Node, Python, Rails, PHP, Java · Perl for legacy
- Slower than C, but network and DB are the bottlenecks

08

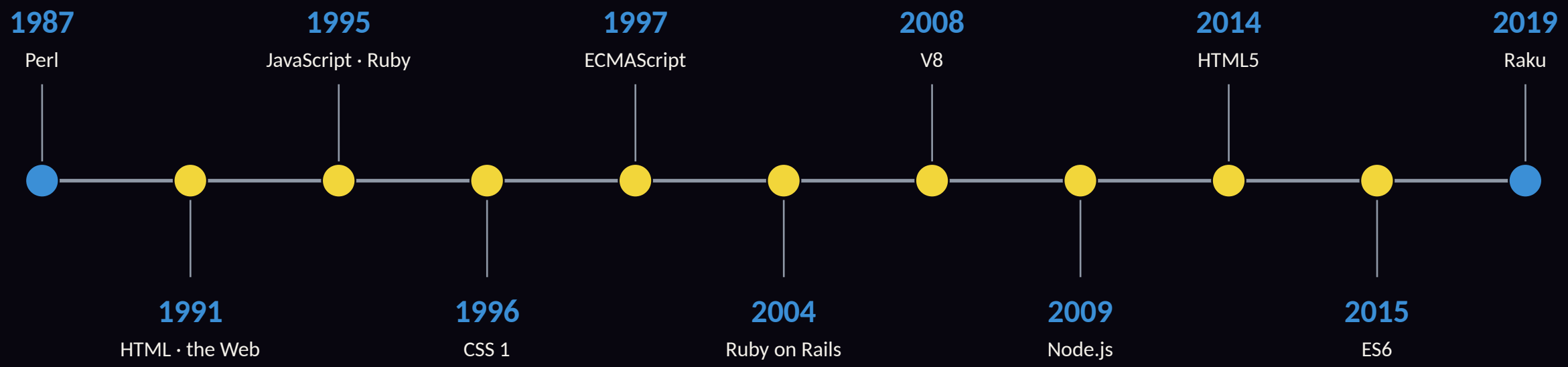
Build Your Own Page



- A text editor + a browser is enough
- Structure → style → behavior
- Your first page can start your career

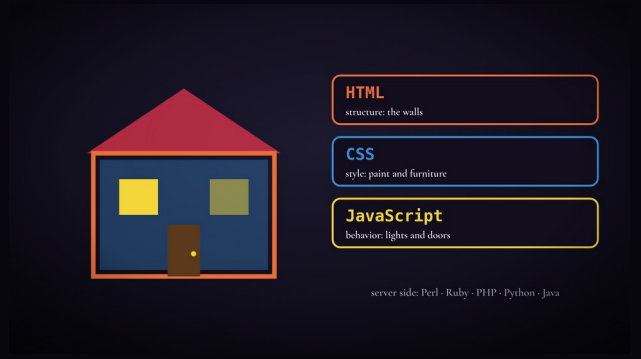
09

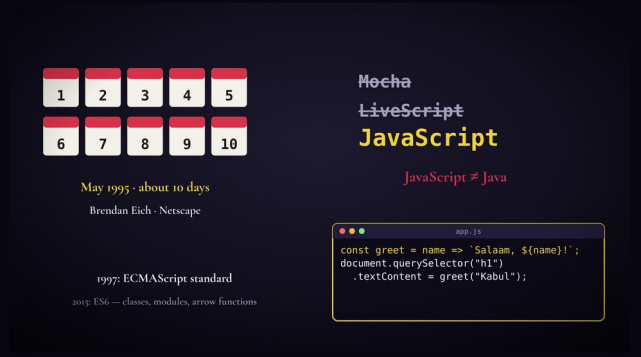
Timeline: 1987 to 2019



Sources and Further Reading

1. Tim Berners-Lee, “Information Management: A Proposal” (CERN, 1989) · home.cern
2. Håkon Wium Lie, “Cascading HTML style sheets – a proposal” (1994) · W3C CSS history
3. Brendan Eich & Allen Wirfs-Brock, “JavaScript: The First 20 Years” (HOPL IV, 2020)
4. perl.org · raku.org · ruby-lang.org “About Ruby” · rubyonrails.org
5. WHATWG HTML Living Standard — html.spec.whatwg.org





Thank you for watching

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