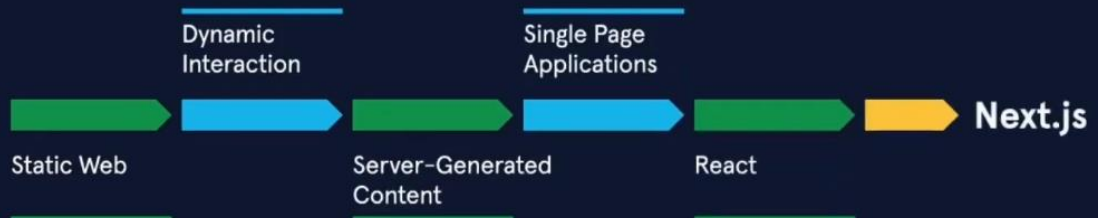


**Efficiency,
Scalability,
Performance.**



Static Web

- Basic HTML pages that display the same content to every visitor.
- No user interaction beyond hyperlinks.

World Wide Web

The WorldWideWeb (W3) is a wide-area [hypertext](#) information retrieval initiative aiming to give universal access to everything there is online about W3 linked directly or indirectly to this document, including an [executive summary](#).

[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](#), [X11 Viola](#), [NeXTStep](#), [Servers](#))

[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:
CERN. <https://info.cern.ch/hypertext/WWW/TheProject.html>

Dynamic Interaction

- XMLHttpRequests.
- Enabled users to interact with a web page without reloading the whole page.



Source: Web Design Museum

Server-Generated Content

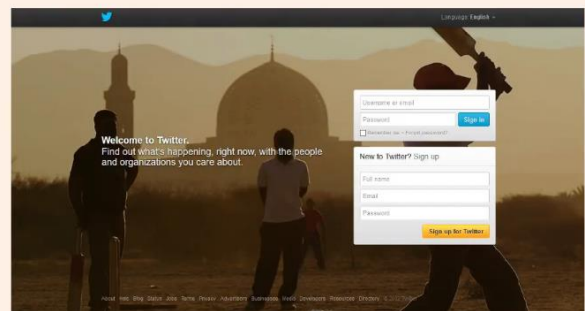
- The server generates custom content for users based on their requests and interactions.



Source: Web Design Museum

Single Page Applications (SPAs)

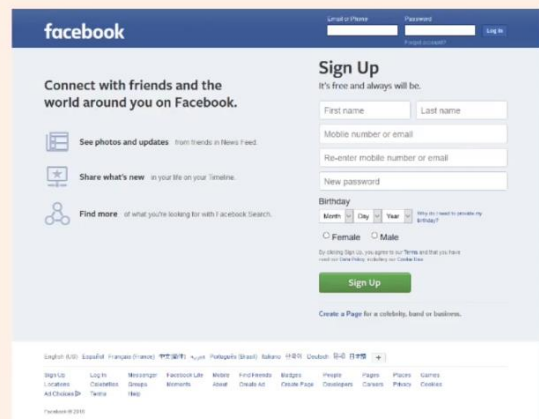
- Dynamic client-side interactions.
- Fluid app-like experience.
- Web applications load a single HTML page and dynamically render content.



Source: Web Design Museum

React

- Component-based approach.
- Reusable components that are small, isolated, manageable.
- Interactive user experience.
- Real-time updates without reloading the page.

A screenshot of the Facebook sign-up page. The page has a blue header with the Facebook logo and a 'Log In' button. Below the header, there's a section titled 'Connect with friends and the world around you on Facebook.' with three icons: 'See photos and updates', 'Share what's new', and 'Find more'. To the right, there's a 'Sign Up' section with the text 'It's free and always will be.' and a form with fields for 'First name', 'Last name', 'Mobile number or email', 'Re-enter mobile number or email', and 'New password'. There's also a 'Birthday' section with dropdowns for month, day, and year, and radio buttons for 'Female' and 'Male'. A green 'Sign Up' button is at the bottom of the form. At the very bottom, there's a footer with various links like 'Sign Up', 'Log In', 'Messenger', etc.

Source: Web Design Museum

Next.js

TikTok
Netflix
DoorDash
WhatsApp

codecademy
from skillsoft

Learn Next.js

- Core Concepts
- Routing
- Server Components
- Data Fetching
- Optimization
- Deployment

codecademy
from skillsoft

Next.js is a React framework focusing on making web development more efficient, scalable, and performant. The framework eases complex development tasks, creating new opportunities to address the challenges of modern web development.

In the context of web development's evolution, the transition from static HTML to dynamic interactions and server-generated content paved the way for single-page applications and React's component-based architecture. Building upon these advancements, Next.js emerges as the modern solution, simplifying both server-side and client-side rendering, and enhancing SEO.

Due to its ability to cater to diverse needs, several tech giants have leveraged it to deliver exceptional user experiences. Next.js is emphasized as a key tool for creating interactive and efficient web applications. This course will explore Next.js's core concepts, including routing,

server components, data fetching, optimization, and deployment, equipping learners with the skills to build quality web applications using Next.js.

Referenced Resources

- The first webpage: <https://info.cern.ch/hypertext/WWW/TheProject.html>
- An exhibit of websites from 1990s to mid-2000s: <https://www.webdesignmuseum.org/>