

Evolution of Web

Web Phase	Time Period	Content Type	User Interaction	Technology Used	Example Platforms	Security Concerns	Attacks
Web 1.0 (Static Web)	1990s to early 2000s	Static content, read-only web	Minimal interaction, read-only	HTML, CSS, JavaScript	Wikipedia, Yahoo	Basic security risks (e.g., weak passwords)	Website defacement, simple DDoS attacks
Web 2.0 (The Social Web)	Early 2000s to 2010s	Dynamic, user-generated content	Interactive, social media platforms	HTML5, AJAX, APIs, social media tech	Facebook, YouTube, Blogs	Data privacy, phishing, malware	Phishing, malware, SQL injection, Cross Site Scripting(XSS)
Web 3.0 (The Semantic Web)	2010s to present	Semantic web, structured and linked data	Enhanced interaction through AI and data	AI & Blockchain	Siri, Watson, Ethereum	Data integrity, identity theft, privacy breaches	Cryptojacking, Sybil attacks, data manipulation
Web 4.0 (The Intelligent Web)	Emerging	Intelligent and context-aware content	Context-aware interaction via IoT and AI	IoT, Advanced AI	Smart assistants, IoT ecosystems	IoT vulnerabilities, deepfake misuse	IoT-based DDoS, AI-driven attacks
Web 5.0 (The Emotional Web)	Futuristic	Hyper-personalized, fully immersive web	Full immersion via AR, VR, and brain-computer interfaces	AR, VR, Neural interfaces, quantum computing	Metaverse	Ethical concerns over privacy and autonomy	Brain-hacking, immersive reality manipulation