

Web 1.0 to Web 5.0 Comparisons

Web Phase	Time Period	Content Type	User Interaction	Technology Used	Example Platforms	Security Concerns	Attacks
Web 1.0	1990s – early 2000s	Static	Minimal (read-only)	HTML, HTTP	Early websites (e.g., Yahoo, Netscape)	Lack of encryption, weak authentication	Defacement, basic DoS attacks
Web 2.0	Early 2000s – 2010s	Dynamic, user-generated	High (read/write)	HTML, CSS, JavaScript, AJAX	Social media (e.g., Facebook, YouTube)	Data privacy issues, insecure APIs	XSS, CSRF, data breaches
Web 3.0	2010s – present	Semantic and linked data	Contextual, AI-driven	RDF, SPARQL, AI, ML, Blockchain	Decentralized apps, semantic search	Smart contract vulnerabilities, data integrity	Sybil attacks, cryptojacking
Web 4.0	Emerging	Ubiquitous and intelligent	Personalized, immersive	IoT, AI, VR/AR, 5G	Smart assistants, AR/VR platforms	IoT security, privacy breaches	Botnet attacks, device spoofing
Web 5.0	Emerging/Future	Emotional, AI-enhanced	Symbiotic, empathic	Advanced AI, neural interfaces, quantum computing	Neural AI platforms, emotion-driven UIs	Neural data security, emotional manipulation	Neural hacks, quantum cryptography threats