

Web and AI

Future of the web in the rising Intent oriented paradigm

W3C WebEvolve Event

Apr 22, 2026, Huajia Resort, Hangzhou

Web is an infrastructure

W3C has been leading the web standards for many years

W3C通过制定Web技术标准 (W3C Recommendations) 协调Web生态系统发展

OpenStand: 坚持开放标准原则

Principle based: 坚持Web的价值观和设计原则



Web is an infrastructure

However, we are at the crossroads of future web and web specifications

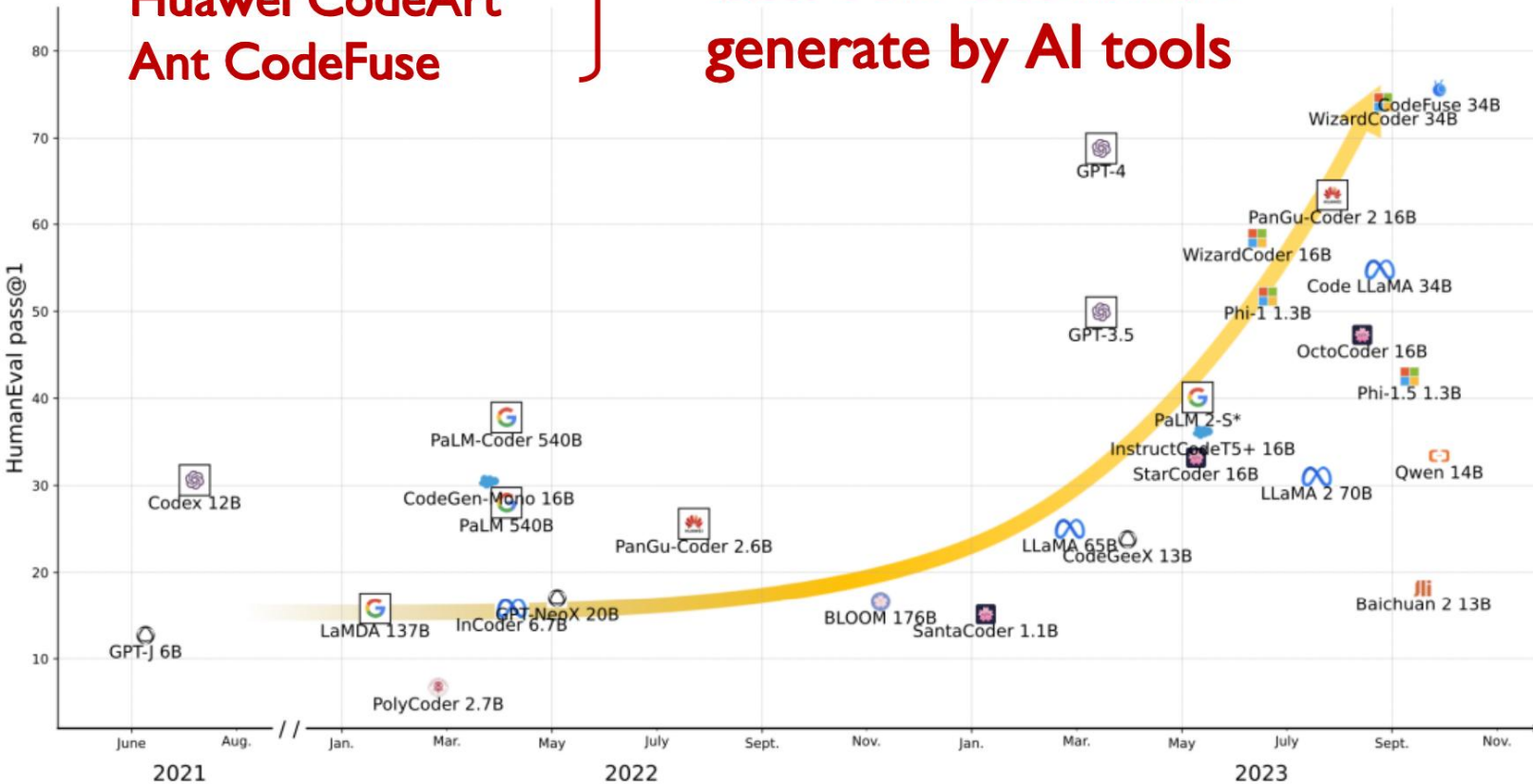


AI is re-shaping the software development

Large language model shows good result in generating code

Microsoft Copilot
Baidu Comate
Huawei CodeArt
Ant CodeFuse

It is reported more than 50% tokens are generate by AI tools

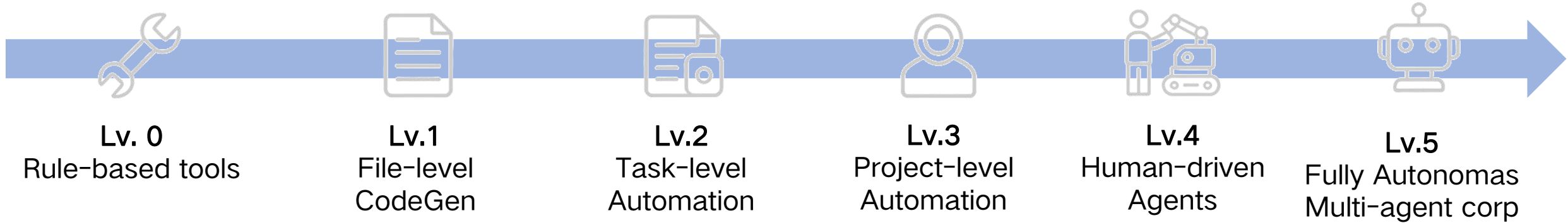


HumanEval Performance

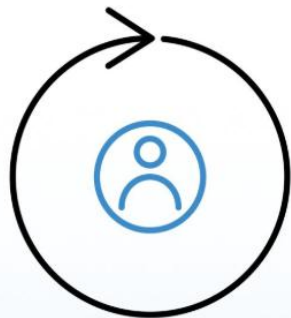
	HumanEval (0)		MBPP (3)	
	k=1	k=100	k=1	k=80
GPT-J ^a	11.6	27.7		
LaMDA ^{bc}	14.0	47.3	14.8	62.4
PaLM ^b	26.2	76.2	36.8	75.0
GPT-NeoX ^d	15.4	41.2		
BLOOM ^d	15.5	55.5		
LLaMA ^e	23.7	79.3	37.7	76.8
GPT-4	67.0 ^f /82 ^g			
LLaMA 2 ^h	29.9	89.0	45.0	81.5
Phi-1.5 ⁱ	41.4		43.5	
Baichuan 2 ^j	17.1		30.2	
Qwen ^k	32.3		40.8	
Codex ^a	28.8	72.3		
PaLM-Coder ^b	36.0	88.4	47.0	80.8
PaLM 2-S* ^l	37.6	88.4	50.0	86.8
Code LLaMA ^m	53.7	94.7	56.2	
CodeFuse ⁿ	74.4		61.0	

AI is re-shaping the software development

AI is re-shaping the software and paradigm of how we develop software

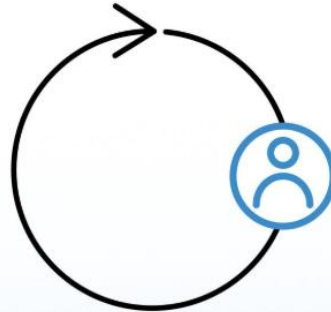


Shifting from Code-centric to Intent oriented



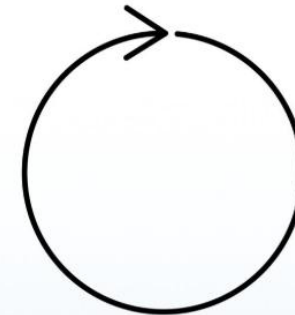
IN THE LOOP

Human controls requirement define and software development



ON THE LOOP

Human define the intent (reqs) and do the check while AI generates codes



OUT OF THE LOOP

Human is providing high-level intention AI generates and check

Toward an open Agentic Web

W3C TAG: Web User Agents

Web User Agents

A **web user agent** is any software entity that interacts with websites outside the entity itself, on behalf of its user, including just to display the content of websites. [...]

[...] user agents also include other tools like search engines, voice-driven assistants, and generative AI systems that present snippets or summaries of website content,

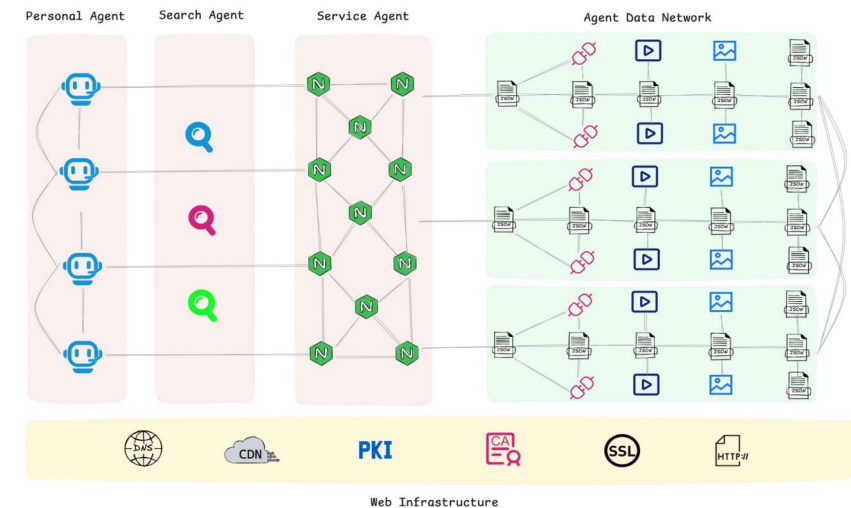
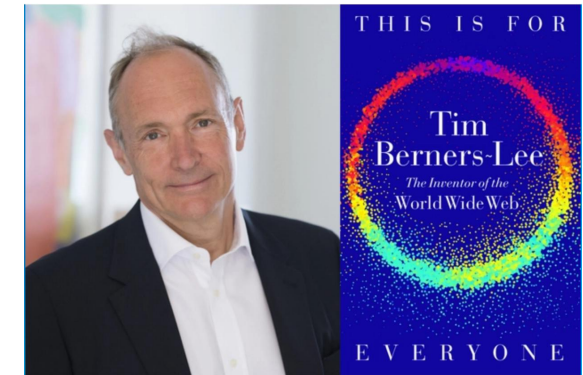
[...] Duties of user agents: Protection, Honesty, Loyalty

From [Web User Agents](#),

W3C Technical Architecture Group, Editor's Draft, 26 May

2025

Web as a Social Machine

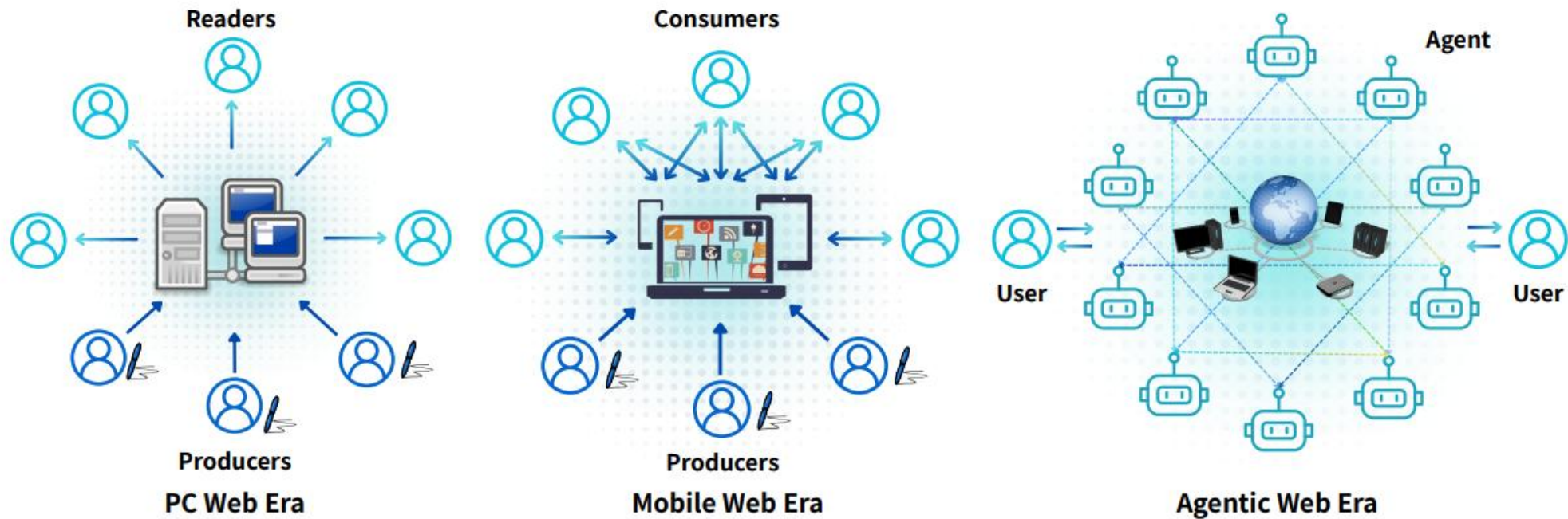


Toward an open Agentic Web

We are in an early stage of defining open agentic Web

Is web a “tool” to be called by an (intelligent) user agent, or web as a global space for open agents (on behalf of the service providers)

Shifting from Service Web, Thing Web, to open Agentic Web



Front-end Developemnt & its impact for Web standards

Session 1: The Future of Front-End Development – Exploring how AI development toolchains, developers, and Web technology standards can co-evolve.

- 14:10-15:00 **Invited Talks** – 8 minutes for each talk
 - **Evolving to User Intent-driven Web** - Li LI (Huawei) [[slides](#)]
 - **Web Standards and AI-driven development** - Dominique Hazael-Massieux (W3C) [[slides](#)]
 - **Large Model Applications in Front-End Development: Current Status, Limitations, and Potential Responses** - Xin XIA (Zhejiang University) [[slides](#)]
 - **Agent as a First-Class Web Citizen** - Lili ZHANG (Baidu) [[slides](#)]
 - **Utoo WASM: Ultra-Fast Dev Toolkit for the AI Era** - Binghui DONG (Ant Group) [[slides](#)]
 - **The AI Revolution through the Eyes of Developers** - Hax He
- 15:00-15:30 **Panel Discussion and Interaction**

Agentic Web Vision, governance, and standards opportunities

Session 2: Agentic Web – Discussing how Web standards can lay the foundation for a trustworthy and open Agent ecosystem in the era of autonomous agent interaction.

- 16:00-16:50 **Invited Talks** – 8 minutes for each talk
 - **Exploration and Practice of Agent Interconnections** - Wenxuan Liu (Ant Group)
 - **Technologies for Good in the raising age of AI: C2PA as an option for AI Image labelling** - Daniel Appelquist (Samsung) [[slides](#)]
 - **Agent Authentication and Authorization Standardization – Max LIU** (Alibaba)
 - **AWiki: Agent Identity and End-to-End Encrypted Communication Based on W3C DID** - Gaowei Chang (ANP Community, W3C AI Agent Protocol CG) [[slides](#)]
 - **AI Enterprise Browser: Opportunities and Challenges in Reshaping the Web ExperienceAI** - Jiaming YE (360) [[slides](#)]
 - **AI-Powered Web Browsing Experience Reconstruction**-Yaoming Liu (Huawei) [[slides](#)]