

The World of Artificial General Intelligence

If one day, we can simply tell an AI to create an app like TikTok or YouTube with a single command, and it provides us with a complete project containing millions of lines of code, that would be truly amazing.

When ChatGPT was released in late November 2022, it could perform tasks like fixing a snippet of code and answering a wide range of questions. It excelled at explaining concepts such as neural networks and providing “Hello, World!” examples in various programming languages. It was like having a very powerful search engine that could give direct answers.

Additionally, it had search functionality. I could instruct ChatGPT to retrieve a list of links from a website and create a document about them.

Then, versions like ChatGPT 3.5, 4, 4o, o1-mini, and o1 were released.

Now, it can handle requests like adding a dark mode to a website. It can provide the necessary code and instructions to update HTML, CSS, or scripts, and even suggest adding a dark mode toggle. Implementing dark mode involves changing CSS, and if the site uses Markdown, that needs to be updated as well.

It’s as if the AI can implement entire features or functionalities, not just snippets of code.

By combining these features, we can create an application. So, one day, if we tell an AI tool to build a terminal, a browser, a to-do list, a task app, a calendar, a code collaboration tool, or a meeting app, it could provide the entire project code.

We can then make the task more complex. For example, we could ask the AI to integrate all existing YouTube code and use APIs from OpenAI, Claude, or Deepseek to add AI functionalities to YouTube. This could include adding a smart assistant, replacing current translations with AI-powered ones, enhancing search capabilities with AI, and even curating dedicated short videos, like requesting YouTube to provide 100 funny short videos about Japanese life.

So, this is an app. But what about more advanced tasks, like creating an operating system? We could tell the AI to design a new, fully open-source operating system with a fresh design, basic apps, a terminal, a command line, and a scheduler, similar to Oberon, using data structures to interact between processes instead of strings.

What’s next? We could ask the AI to design the latest Mac and update its operating system.

And then, what’s next? We could tell the AI to design and update an entire home, customizing all electrical products based on our activities, the latest knowledge, and our needs to create a better living environment.

And then, what’s next? We could ask the AI to design an entire city, tailored to its citizens’ behaviors and the latest knowledge, to improve their lives.

And finally, what's next? We could tell the AI to improve the Earth, using all available knowledge and information to enhance everyone's life.