

Context Window in AI

January 12, 2026 • vajiramandravi.com



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Context Window in AI Latest News

In the context of artificial intelligence (AI), specifically large language models (LLMs) like GPT-5 and Claude, the context window is the maximum amount of text the model can consider at any one time while generating a response.

About Context Window in AI

- The context window of an artificial intelligence (AI) model **measures how much information the AI model can remember**, working **similarly to humans' short-term memory**.
- **AI models** don't read words; instead, they **read chunks of characters** called **tokens**.
- **Context Window** is the **amount of text, in tokens**, that the **model can consider or "remember"** at **any one time**.
- **A larger context window enables an AI model to process longer inputs** and **incorporate a greater amount of information into each output**.

- A **large language model's (LLM's) context window** can be thought of as the **equivalent of its working memory**.
- It **determines how long of a conversation it can carry out without forgetting details** from earlier in the exchange.
- It also determines the **maximum size of documents or code samples** that **it can process at once**.
- **When a prompt, conversation, document, or code base exceeds** an AI model's **context window**, it **must be truncated or summarized** for the model to proceed.
- Generally speaking, **increasing** an **LLM's context window** size translates to **increased accuracy, fewer hallucinations, more coherent model responses, longer conversations** and an improved ability to analyze longer sequences of data.
- However, **increasing context length** is not without tradeoffs: it often entails **increased computational power requirements**—and therefore **increased costs**—and a potential **increase in vulnerability to adversarial attacks**.

Source: **TH**

Source: <https://vajiramandravi.com/current-affairs/context-window-in-ai/>

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