

ChatGPT has been enhanced with a dynamic visual mathematical explanation feature. What's so special about it?

OpenAI adds dynamic visual explanations to ChatGPT, allowing users to interact with mathematical and scientific formulas and illustrations in real time.

OpenAI has just introduced a new feature for **ChatGPT** called **dynamic visual** explanations. This feature allows users **to observe changes in formulas, variables, and mathematical relationships in real time**.

Instead of simply reading written explanations or looking at a static diagram, users can now **interact directly with illustrations**. For example, when learning about **the Pythagorean theorem**, you can change the lengths of the sides of a triangle and immediately see the hypotenuse updated according to the formula. Users can adjust numbers or variables and observe the changes happening instantly on the illustration.

To experience this feature, users simply need to ask ChatGPT a question such as 'What is the lens equation?' or 'How do I calculate the area of ??a circle?'. ChatGPT will not only provide an explanation but also offer **an interactive module** for users to directly adjust the parameters.

explain the pythagorean theorem

The Pythagorean Theorem is a rule about the sides of a **right triangle** (a triangle that has one 90° angle).

$$a^2 + b^2 = c^2$$

a 7.1

b 12.1

$c = \sqrt{a^2 + b^2} \approx 14.03$

$a^2 + b^2 = c^2 \approx 50.41 + 146.41 = 196.82$

What the formula means

- a = length of one leg (side next to the right angle)
- b = length of the other leg
- c = length of the **hypotenuse** (the longest side, opposite the right angle)

Over 70 math and science topics have been supported.

Currently, interactive illustrations are available in over 70 different math and science topics. Some examples include:

1. **Charles's law**
2. **Coulomb's law**
3. **Hooke's law**
4. **Ohm's law**
5. **Kinetic Intake**
6. **Compound interest**

In addition, the system also supports many familiar mathematical concepts such as linear equations, the difference of two squares, exponential decomposition, and how to calculate the area of a circle.

OpenAI says that in the future they will continue to expand this feature to add more interactive topics. Currently, dynamic visual explanations **are available to all logged-in ChatGPT users** .

The launch of this feature marks a significant shift in how ChatGPT supports learning. Instead of simply providing answers, the tool encourages users **to interact directly with the underlying concepts** behind the problem or scientific phenomenon.

However, whether this feature helps learners gain a deeper understanding still depends on how they use it.

AI is changing the way we learn.

The rapid development of AI in education is also generating much debate. Some educators worry that students may become **too dependent on AI** , but in reality, many teachers and students have already begun incorporating these tools into their daily learning routines.

According to OpenAI, **more than 140 million people** use ChatGPT every week to help them learn math and science – subjects that are often considered difficult for many learners.

OpenAI isn't the only AI company developing similar interactive features; other major AI companies are also developing them. For example, last November, **Google Gemini** launched interactive diagrams and illustrations within its platform.

The dynamic visual explanations feature also adds to ChatGPT's list of new learning tools, alongside **Study Mode** – a mode that guides users through problem-solving step-by-step – and **QuizGPT** , which allows users to create flashcards and test their knowledge before exams.

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