

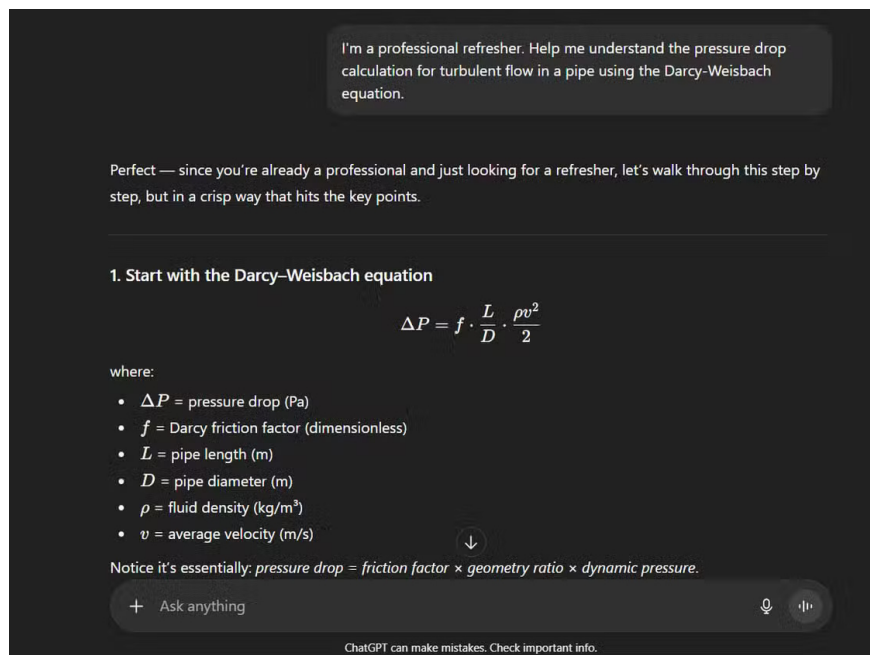
4 ChatGPT Features That Make It 10X More Useful

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4. Learning

Turn ChatGPT into a friendly tutor



2. The tricky part: the friction factor f

For turbulent flow, f is not constant like in laminar flow. It depends on Reynolds number and relative roughness:

$$\text{Re} = \frac{\rho v D}{\mu}$$
$$\varepsilon_r = \frac{\varepsilon}{D}$$

- μ = dynamic viscosity (Pa·s)
- ε = absolute roughness of pipe wall (m)

3. How to get f in turbulence

- For smooth turbulent flow (Re up to $\sim 10^5$, low roughness), use the Blasius correlation:

$$f = 0.3164 \text{Re}^{-0.25}$$

- For general turbulent flow, use the Colebrook-White equation (implicit):

$$\frac{1}{\sqrt{f}} = -2 \log_{10} \left(\frac{\varepsilon}{3.7D} + \frac{2.51}{\text{Re}\sqrt{f}} \right)$$

- For quick calculations, the Moody chart is often used.



+ Ask anything



ChatGPT can make mistakes. Check important info.

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4. Putting it all together

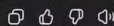
Once you have f , just plug into Darcy-Weisbach.

$$\Delta P = f \cdot \frac{L}{D} \cdot \frac{\rho v^2}{2}$$

✓ Quick sense-check:

- If the pipe is longer ($L \uparrow$) → bigger pressure drop.
- If diameter is larger ($D \uparrow$) → smaller pressure drop.
- If flow velocity increases → drop increases with v^2 .
- Rougher pipe walls increase f , so higher drop.

Before we go further: do you want me to walk you through a worked numerical example (with typical values, like water in a steel pipe), or do you prefer sticking to the conceptual refresher?



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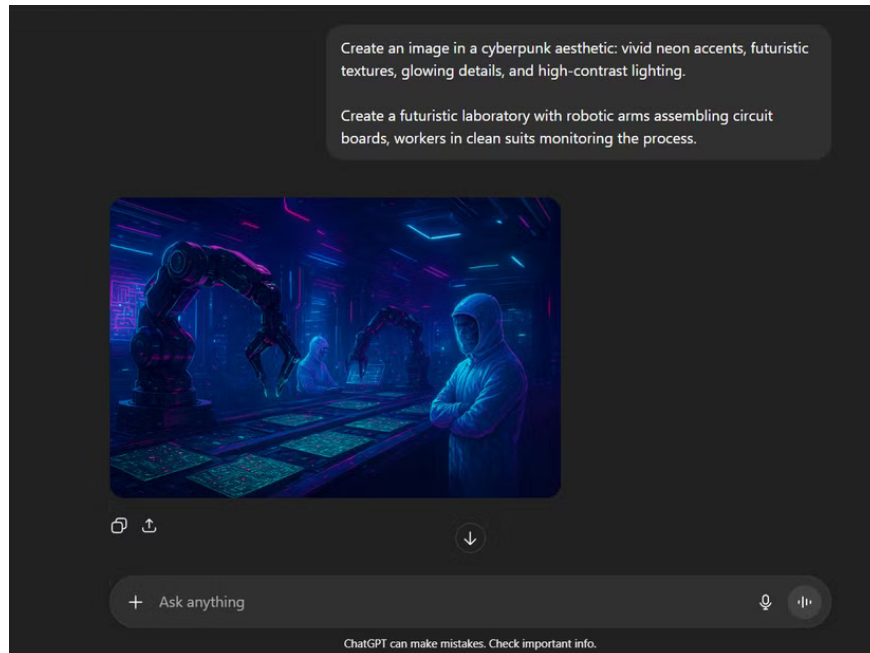
People love ChatGPT's learning feature because it not only answers but also acts as a tutor. Instead of just giving you a solution, it guides you through the problem step by step. This feature is useful when working on technical or scientific topics where understanding each step is more important than the end result.

For example, if you ask ChatGPT to 'Explain the pressure drop calculation for turbulent flow in a pipe using the Darcy-Weisbach equation,' it won't just give you the formula and plug in the numbers. Instead, it will guide you through determining the Reynolds number first, then determining the friction coefficient, and finally applying the formula. If your calculation is wrong, it will gently point out the error, encouraging you to correct it yourself.

Since ChatGPT's Study mode trains your brain instead of giving you answers, it helps you consolidate your knowledge, much better than simple Q&A sessions.

3. Image creation style

This style helps improve creativity.



ChatGPT's image creation feature includes preset styles that simplify the creative process. Instead of providing detailed prompts, you can choose from styles like Synthwave, Art Nouveau, or Retro Cartoon, each of which creates a distinct visual mood.

When you need a concept drawing, use this prompt:

Create a futuristic laboratory with robotic arms assembling circuit boards, workers in clean suits monitoring the process.

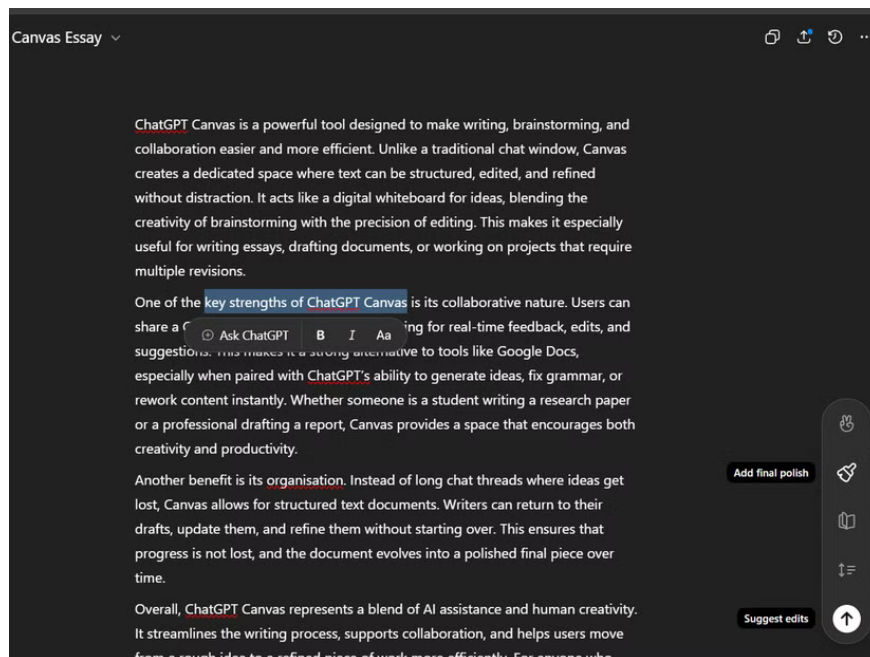
Create a futuristic lab with robotic arms assembling circuit boards, workers in clean protective gear monitoring the process.

Try the Cyberpunk style, with a built-in prompt above the request, giving you the desired bright, neon look without the need for any additional prompts.

The consistency of these styles is a huge advantage. Whether it's the nostalgic vibe of 80s Glam or the polished look of Photo Shoot, you'll always get reliable, high-quality results. These options take a lot of the guesswork out of creative projects and are predictable in a good way.

2. Canvas

Bridging the gap between chatting and editing documents



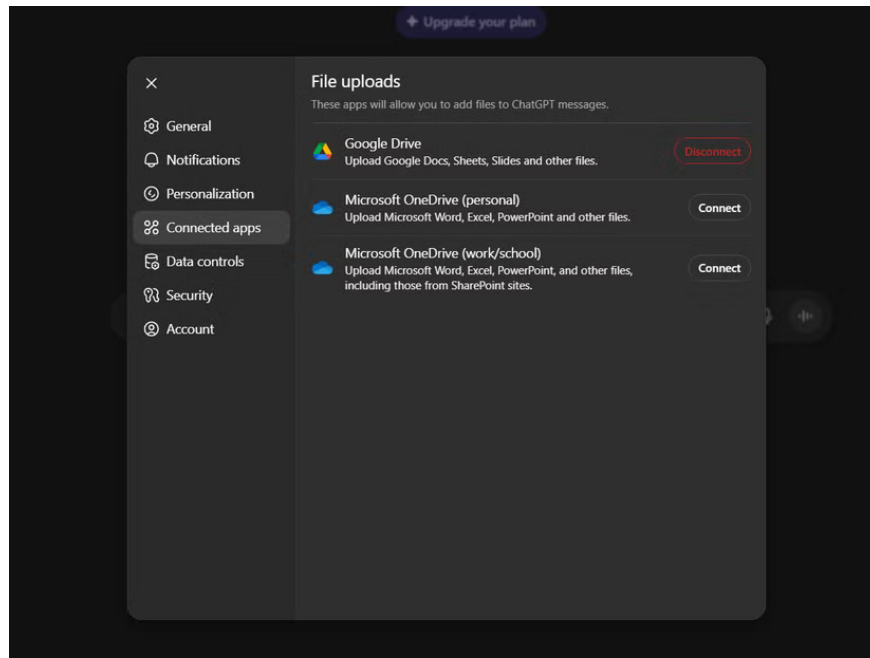
The Canvas feature improves the ability to interact with long documents by providing a dedicated workspace right inside ChatGPT. Instead of copying and pasting text back and forth, you can edit directly in the interface — just like working in a word processor. This integration eliminates overlap and helps organize ideas.

It gives you a variety of options, such as **Suggest edits**, which highlight potential improvements without making any automatic changes. **Adjust the length** lets you expand or collapse sections while keeping the core message intact. **Reading level** adjusts the complexity of the text to suit your audience.

It also offers selective editing. When you highlight a sentence, a pop-up appears with formatting options — bold, italic, change font size — along with an **Ask ChatGPT** button for targeted editing.

1. ChatGPT Connector

Make workflow seamless



Connecting external applications eliminates the cumbersome download and re-upload cycle. Instead of saving files locally first, connectors allow you to share files directly with ChatGPT. So you don't have to constantly switch between platforms. Setting up the connector is simple:

1. Open ChatGPT **Settings** and navigate to **Connected Apps** .
2. Select the app you want to connect, such as Google Drive.
3. Grant access through the standard OAuth process.

Note : ChatGPT does not have direct access to files from your application, such as Google Drive files, unless you use the file sharing option to share a specific file.

When you need to analyze a document, you can say, "I'm sharing three PDF reports from my Google Drive. Please summarize the key findings and identify common themes across all documents." The connector lets you easily select and share those files.

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