

Using Generative AI to Create Images for Stickers & T-Shirts

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What is Generative AI?

Generative AI is an Artificial Intelligence program that uses machine learning techniques and algorithms to “create” (generate) text or images from a textual or visual description (prompt) provided by the user. The programs have been “trained” on massive amount of text and images “taken” from the Web.

Why use Generative AI to create images?

- Your images are unique. AI rarely generates the same image twice.
- You have more control over the resulting image by modifying your prompt.
- You are more creative.

Generative AI image creators

- Microsoft Bing Image Creator (powered by DALL·E 3 or GPT-4o) – free
- Adobe FireFly – multiple models some are free
- Craiyon.com – free
- CF Spark – free trial
- ImageFX from Google Labs – free
- Midjourney – subscription only

PC Magazine did an interesting comparison of image creators in Jan 2025 using 4 different prompts. You can view the results at: <https://www.pcmag.com/picks/the-best-ai-image-generators>

Microsoft Bing Image Creator Quick Start

Bing Image Creator allows 15 free “fast” creations per day. After that, images will be created but will take considerable longer. Bing Video Creator allows for 10 free “fast” creations of 5 second in length.

NOTE: Bing attempts to prohibit the generation of offensive and objectionable content. It sometimes will misinterpret your prompt and produce a warning. Reported violations will result in temporary or permanent restriction on your accounts use of Bing Create.

1. Browse to <https://bing.com/create>
2. Sign in with your Microsoft account. (Or create one that will result in an @Outlook.com email address.)

Note: Your COD outlook address may not work. If you use EDGE, you may automatically sign in.

3. A number of sample images and videos are displayed. Mouse over one to display the prompt used to generate the image.
4. In the Prompt Bar,
 1. Select Image
 2. Select Model -- DALL-E-3 will produce 4 images, GPT-4o only produces one
 3. Select Aspect Ratio (each model has different ratios)
 4. Enter a prompt. Start with something simple, such as "a red and yellow roadrunner".
 5. Click the Create button.
5. Within a minute, your image will be returned. Also, below it, thumbnails of your recent images will be displayed. (More later).
6. Click on an image to view full screen. Click the Download icon to download to your computer. All Bing images are 1024x 1024 pixel JPGs at screen resolution (96 dpi). You may want to rename the image in your Downloads folder to something more descriptive than a UUID.

NOTE: Beneath your images will appear similar images from the web. Most are not AI generated and subject to copyright restrictions.

Clicking the Customize icon enables you to edit your prompt to recreate the image. Clicking the Save icon saves your image in a Collection for later use.

7. Click the X to return to the prompt screen.
8. Try a slightly more elaborate prompt: "A red and yellow roadrunner playing golf".
9. Try more elaborate prompts: "A red and yellow roadrunner playing golf in the desert", "A red and yellow roadrunner playing golf in the desert with a cactus".
10. To your prompt, add "contained within in a circle with a white background". Note the resulting image may be more appropriate for a sticker or T-shirt design.

Adobe FireFly Quick Start:

FireFly provides access to many models. However, you only receive 10 generations per month that you can quickly burn through exploring the options.

Their Firefly Image models provide the most options for iteratively modifying your image

1. Browse to: <https://firefly.adobe.com>
2. Sign in (or create an Adobe account.)
3. Click on "Text to image" picture.
4. Enter prompt at bottom of screen and click the Generate button.
5. Within a minute, 4 images will be returned. By default, images are 1024x1024 pixels @ 96 dpi.

6. Mousing over the image provides multiple options:
 - You can rate how well the image match your expectations
 - You can report offensive images
 - You can copy the image to your clipboard,
 - You can download the image to your computer
 - With Edit, you can generate images similar to the selected image
 - Or set the selected image as the reference for future prompt. *Use the slider to determine how closely the new images match the reference.*
7. The right column enables you to add predefined attributes to your prompt. *Perhaps the most useful function is to change the aspect ratio.*
8. If you like an image, download it. Unlike Bing, you can not retrieve previously generated images.

Tips for Creating Prompts:

- The more descriptive of the object, action and setting, the better
- Think as if you are providing directions to an illustrator
- After the description, add attributes, separated by commas
- Attributes are system dependent. Not all attributes are recognized.
- Attributes can be art medium, photographic camera terms, color, lighting, style, material, in the style of an artist – refer to promptomania.com for suggestions
- Some useful attributes:
 - on a white background
 - contained within a circle
 - stickers
 - 2D
 - Vector
 - coloring book
 - illustration
 - photorealistic
 - black and white
 - Square (1:1) aspect ratio is good for stickers and buttons (pins)
- For unknown reasons, AI is not good with text. Unless you want a very futurist-looking language. *FireFly has a text effects application that may be useful.*

The Process to Create Stickers & T-shirts:

1. Use AI tool to generate image
2. Download image file
3. Optionally edit, crop, resize on your local computer,
4. Copy file via USB stick or email to Roland printer computer
5. Import into Adobe Illustrator and resize as required.
6. Add vinyl cut lines and save as AI file.
7. Print to the VersaStudio
8. Use VersaStudio software to resize, position and print multiple copies

Useful Websites:

- [Remove.bg](#) – to automatically remove backgrounds
- [Canva.com](#) – free, on-line graphic design tools
- [Koalagp.com](#) – Highly recommended sticker and photo paper, available on Amazon
- [IMGonline.com.ua](#) – online processing of JPG photographs
- [Upscale.media](#) – increase image size 2x or 4x without pixelation
- [OnlineJPGtools.com](#) – reduce number of colors in a JPG image