Creating AI Portraits

Estimated time: 20 minutes

Welcome to hands-on lab, Creating AI Portraits.

Learning objectives

After completing this lab, you will be able to:

- Generate AI portraits using the AI Face Generator using preexisting prompts
- Generate AI portraits using the AI Face Generator by providing a prompt and setting values of different attributes

Introduction

Generative AI models employ advanced deep learning algorithms to create realistic portraits that closely resemble those of actual individuals. The resulting AI-generated portraits span a spectrum from conventional styles to abstract or surreal interpretations, highlighting the artistic versatility of the model.

This intricate process involves training the model on an extensive dataset of pre-existing portraits, allowing it to grasp patterns, styles, and features. Consequently, the model can adeptly apply this learning to generate entirely fresh and imaginative portraits.

By creating distinctive visual representations, AI portraits exhibit the convergence of technology and art, presenting innovative approaches to produce captivating and hyper-realistic visual depictions of individuals.

In this lab, you'll look at the open-source image generation tool, AI Face Generator, and gain proficiency in using this tool to explore different art styles and artistic expressions to create unique portraits. AI Face Generator is an open-source, free online tool available to create realistic and often entirely synthetic images of human faces.

Exercise 1: Generating AI portraits using preexisting prompts in AI Face Generator

In this exercise, you will experiment to create portraits based on preexisting prompts and the feature of the tool to provide descriptive prompts based on the keywords provided by you.

Step 1: Log in to AI Face Generator

1. Click AI Face Generator to launch the AI Face Generator platform.

    If you cannot access the platform through the link, you can copy the following URL and paste it in a browser.

```
1. 1
1. https://perchance.org/ai-face-generator
```

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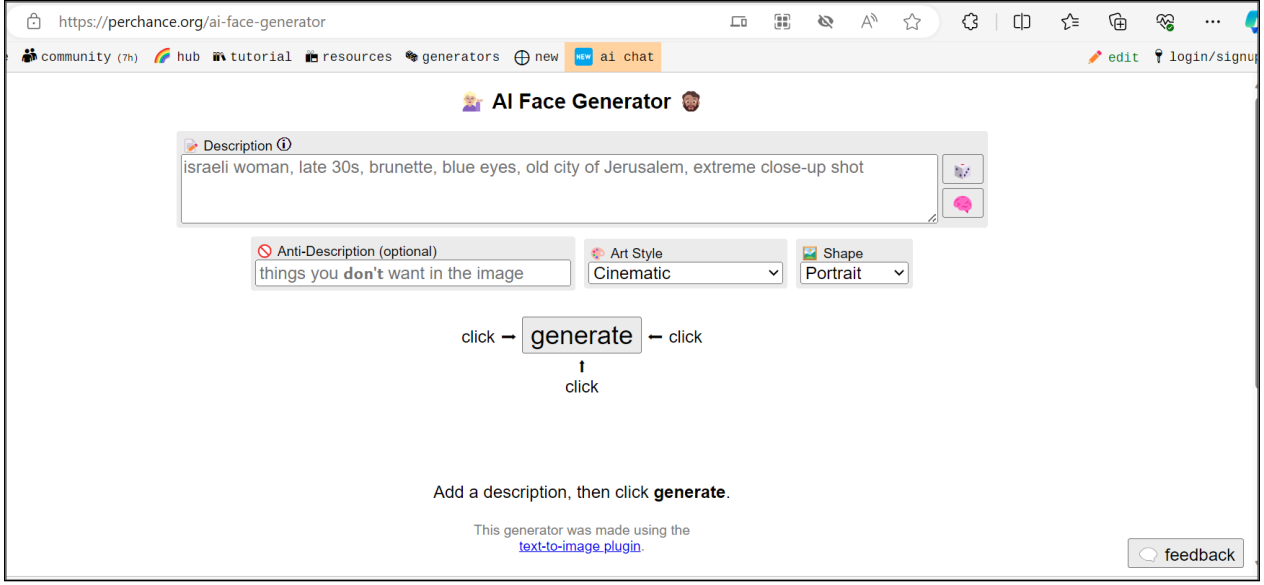
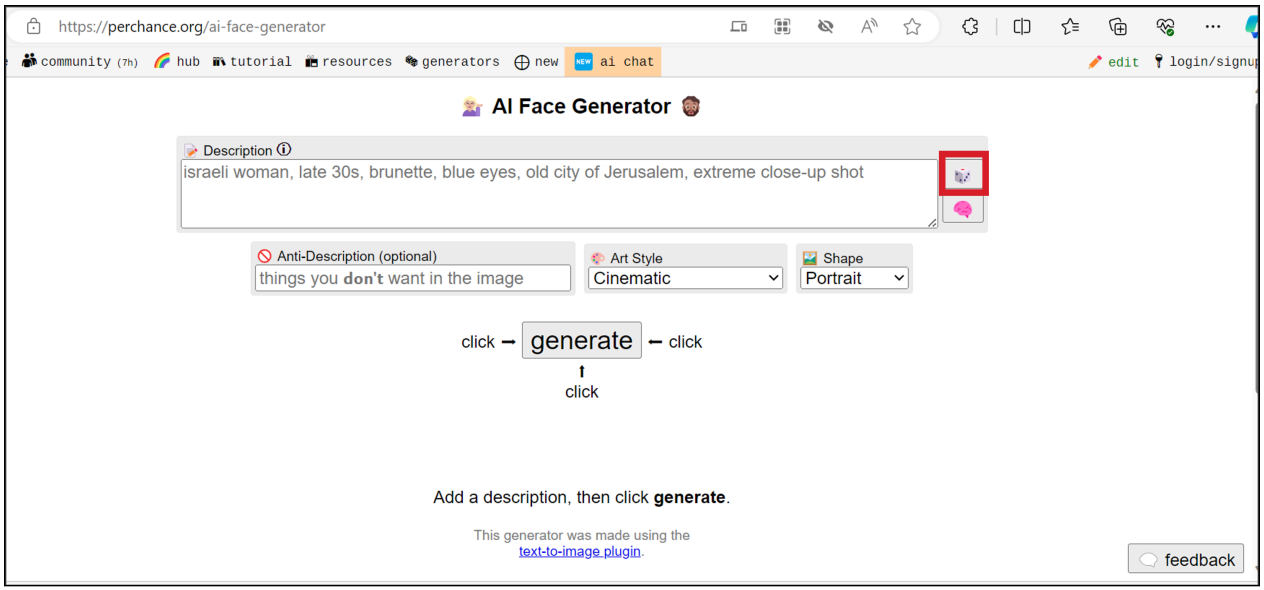
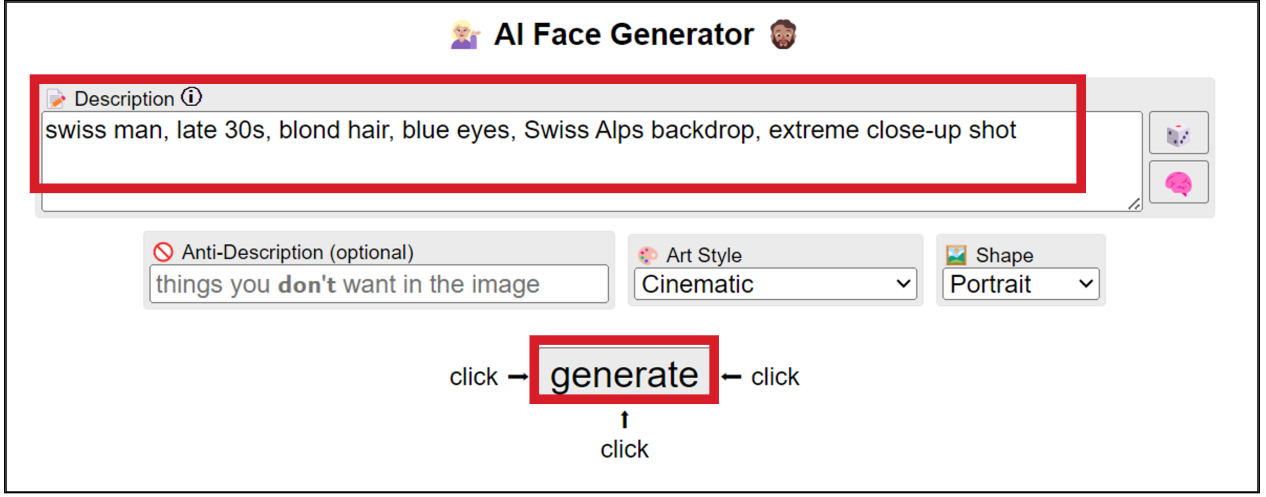


Step 2: Generate an image using preexisting prompts

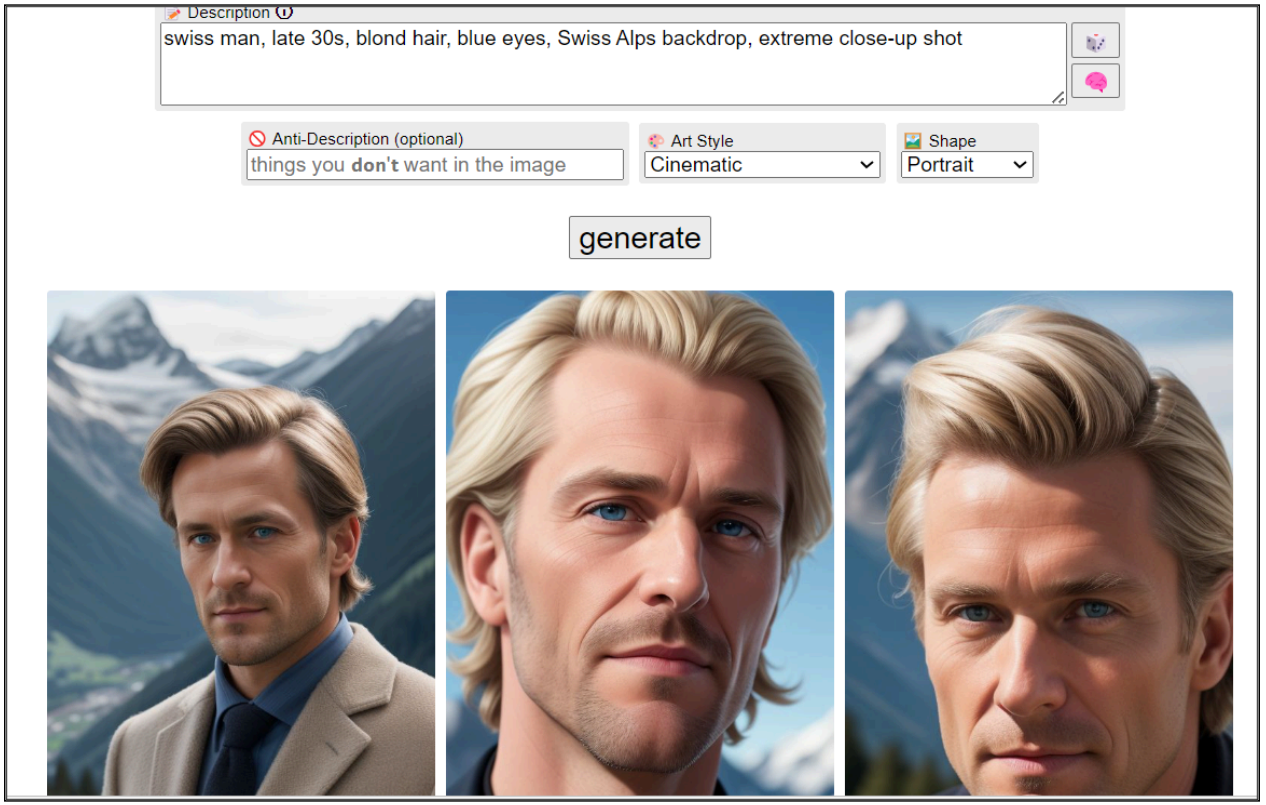
1. Let's start by working with the preexisting prompts available through AI Face Generator. Click the **dice** icon to use the set of pre-existing prompts for generating an AI portrait.



2. You have a preexisting prompt displayed in the **Description** field. Click the **generate** button to generate the portrait.



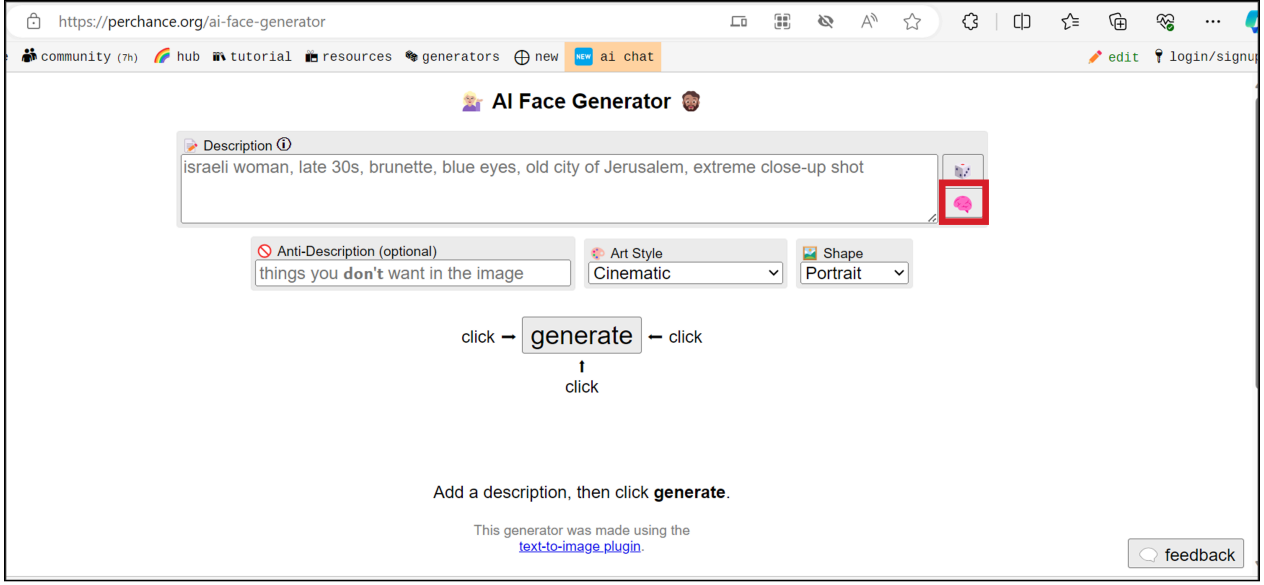
3. You will have multiple images (portraits) displayed based on the given prompt.



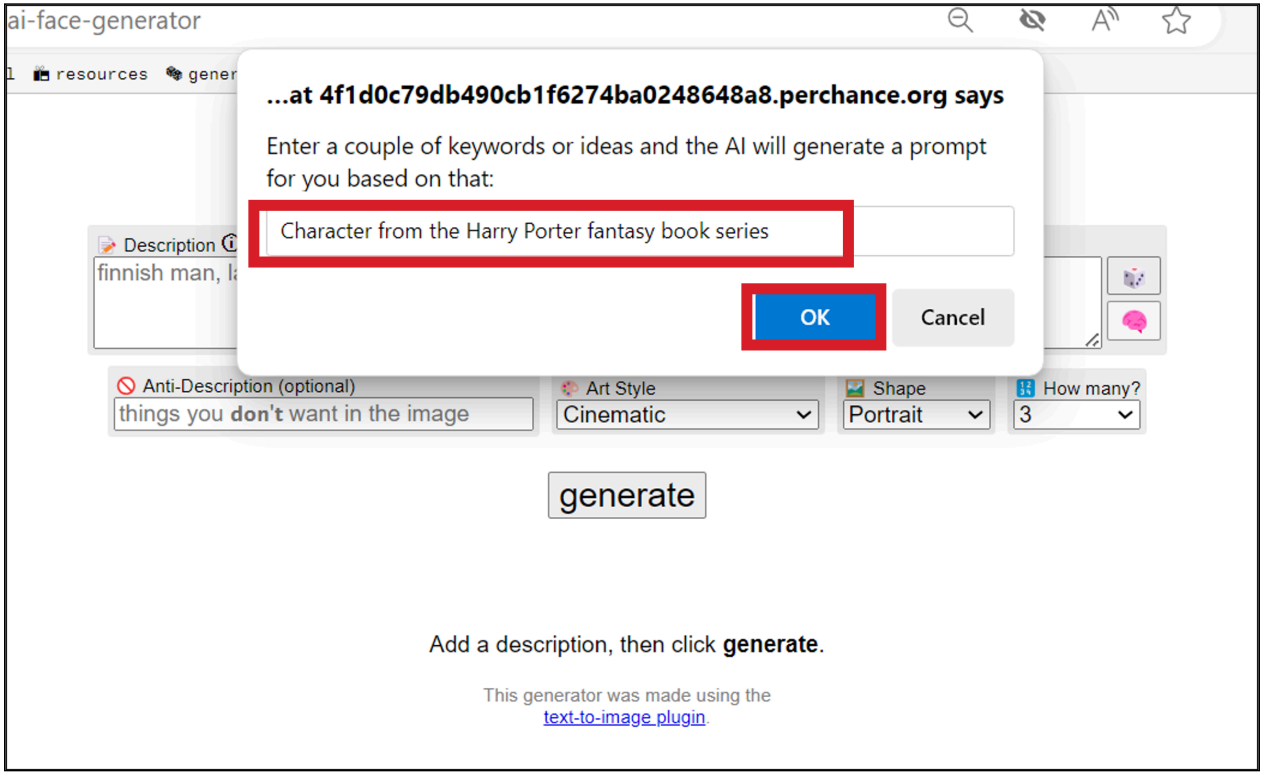
Step 3: Generate an image using keywords

1. In the previous step, you would have noticed that the preexisting prompt generated by the tool includes relevant descriptions to specify attributes of the expected image. For the prompts that you provide from your end, you should also try providing a descriptive prompt. However, if you do not know how to write a relevant prompt, click the **brain** icon. This will open up a dialogue box where you can enter keywords related to the image you have in mind.

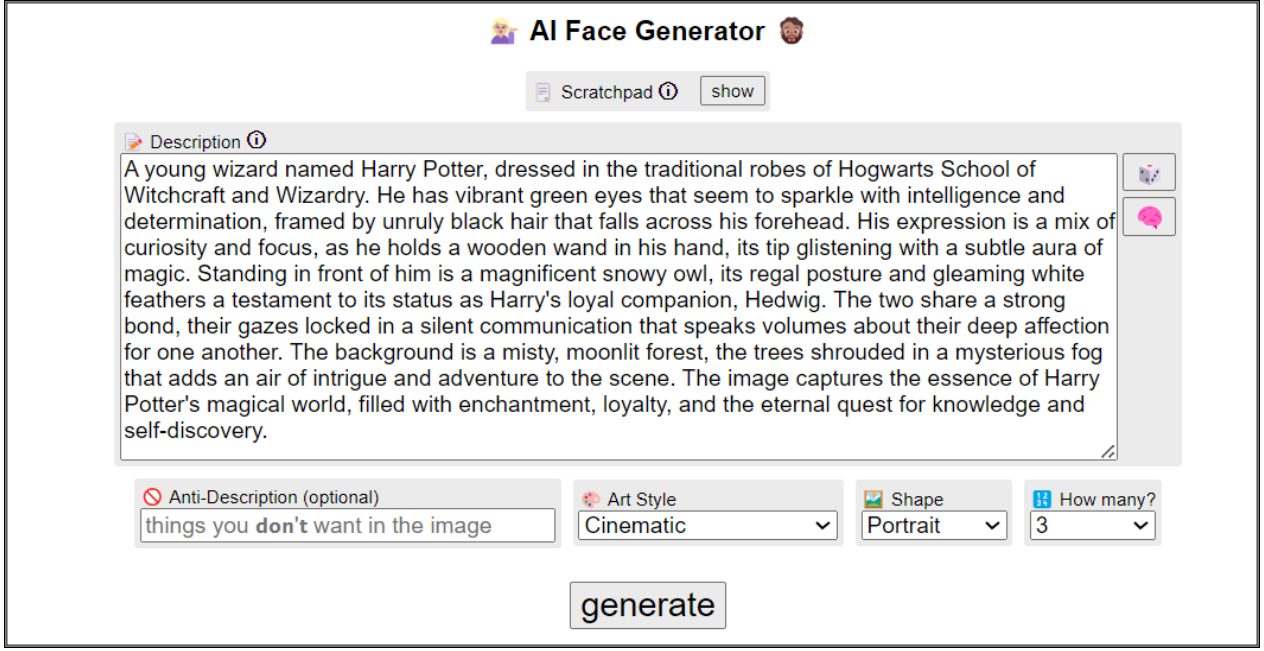
   Ensure that pop-ups from this website are not blocked on your system.



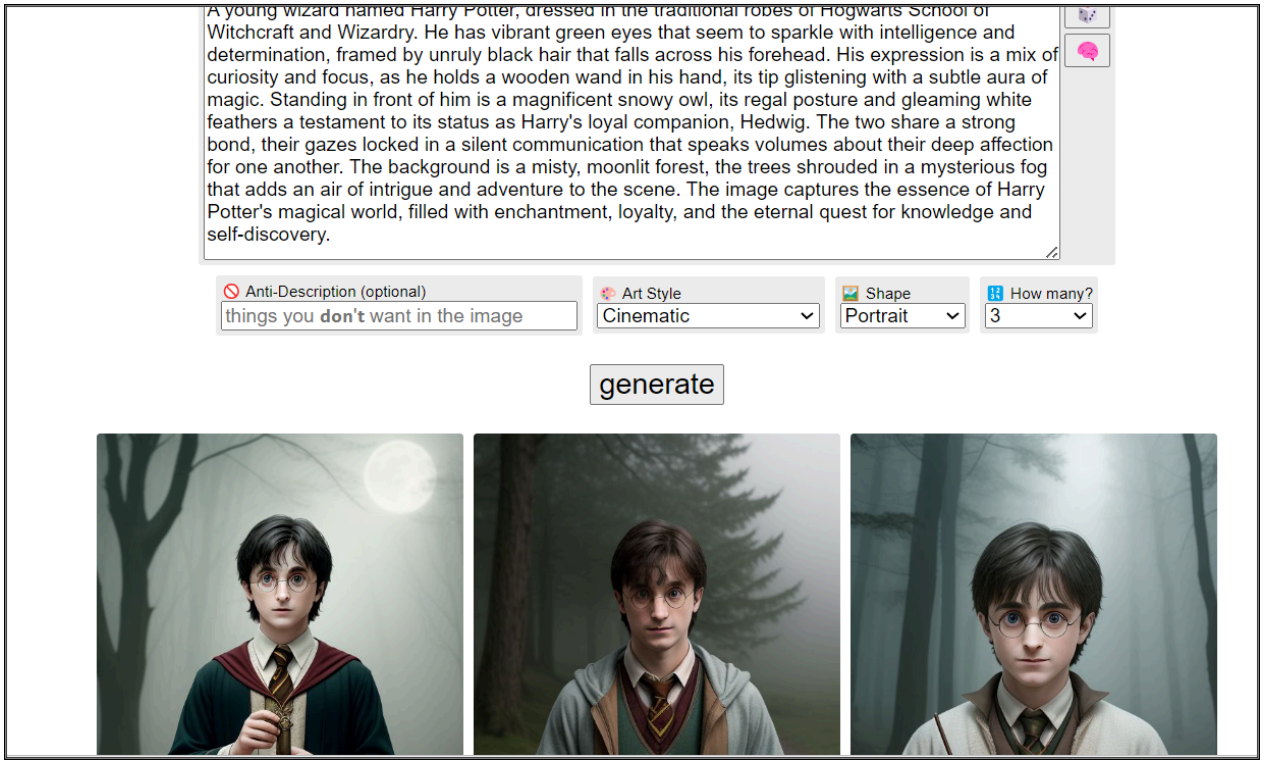
2. Enter a few keywords regarding the image or portrait you want to generate. Let's enter `Character from the Harry Porter fantasy book series`. Click **OK**. This will generate a prompt for you.



3. In the following image you can see the prompt produced by the tool based on the keywords provided in the previous step. Click **generate** to produce the images.



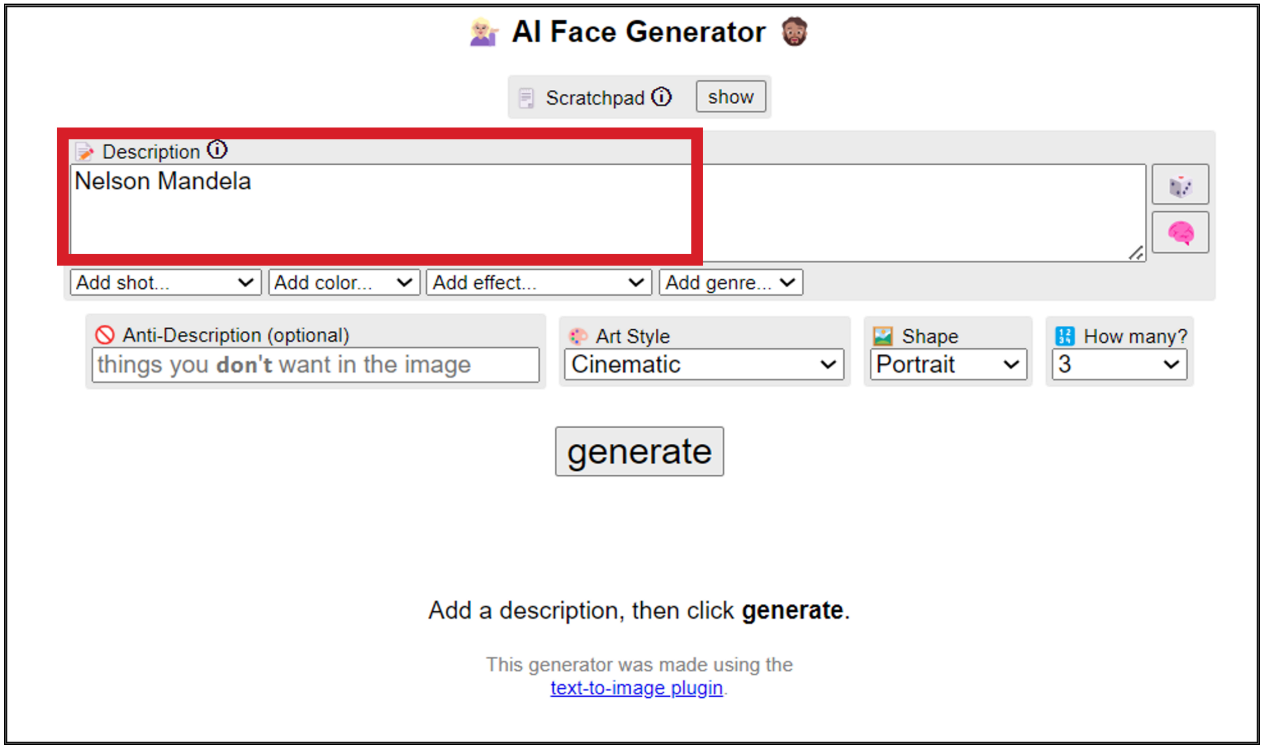
4. The following image shows the images generated based on prompt produced in the previous step.



Exercise 2: Generating AI portraits by providing prompts and setting attributes

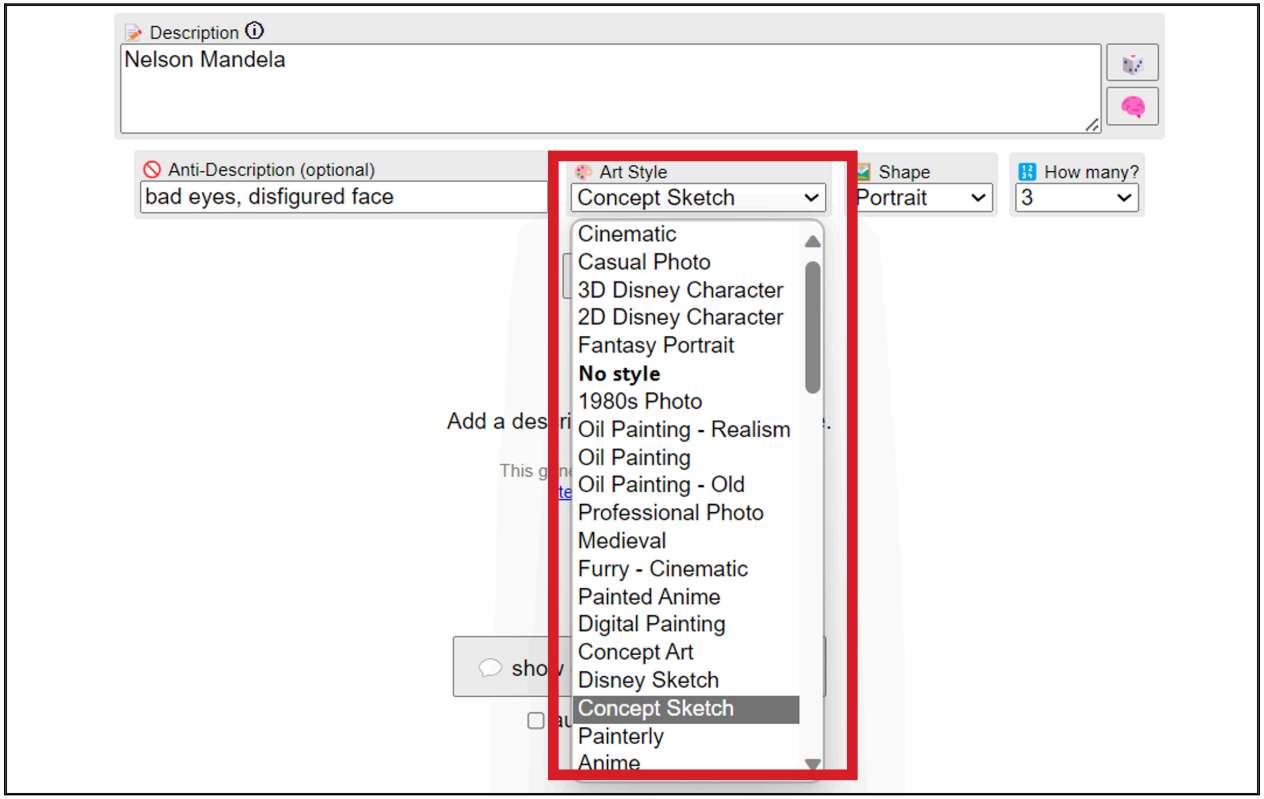
In this exercise, you will experiment with creating a portrait based on the prompt provided by you and modify the different attributes provided by the tool to generate the desired output.

1. In the Description field, you need to enter the name or description of the person for whom you want to generate the portrait. Let's enter `Nelson Mandela` as the prompt in the **Description** field.

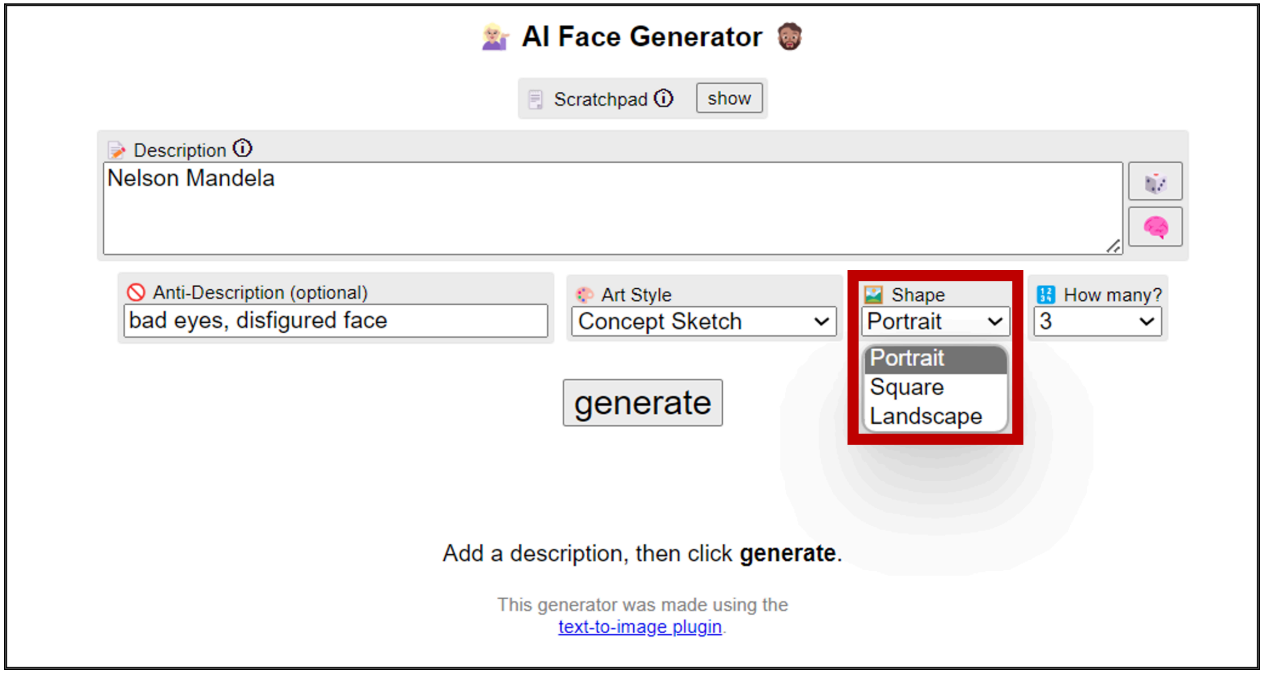


2. In the **Anti-Description** box, add keywords for features or attributes you don't want in the image.

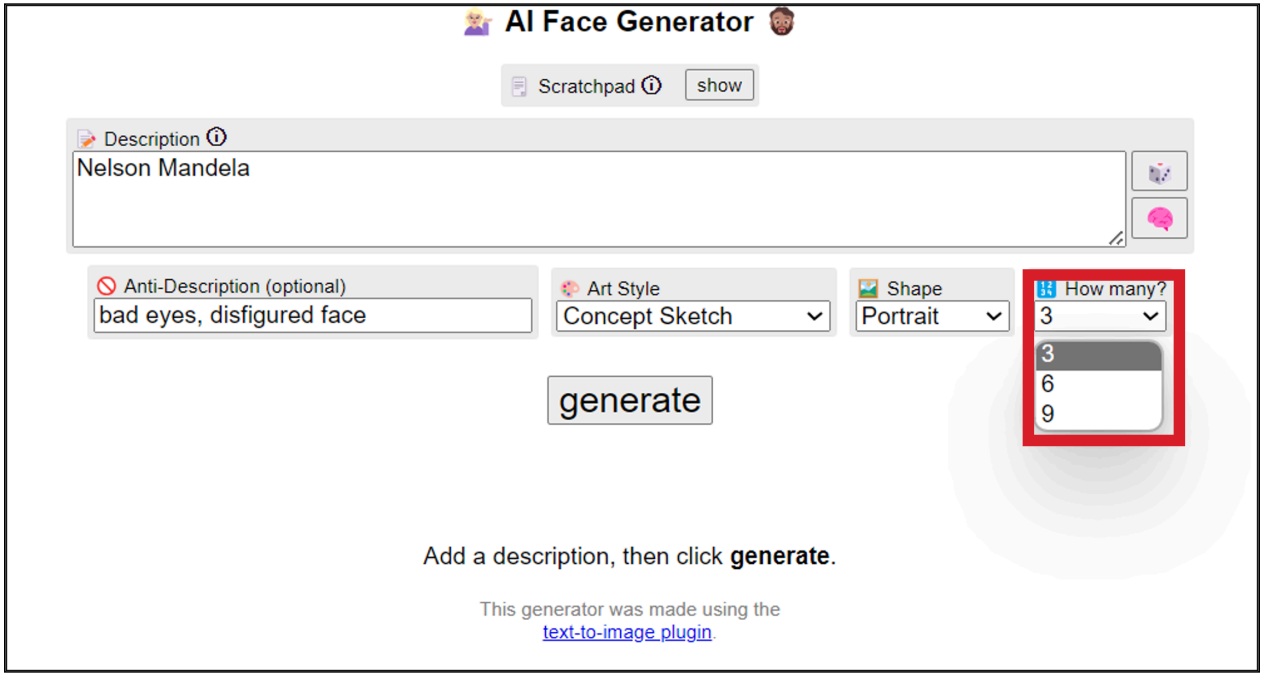
3. You can select the desired art style from the **Art Style** dropdown list. Let's select **Concept** Sketch.



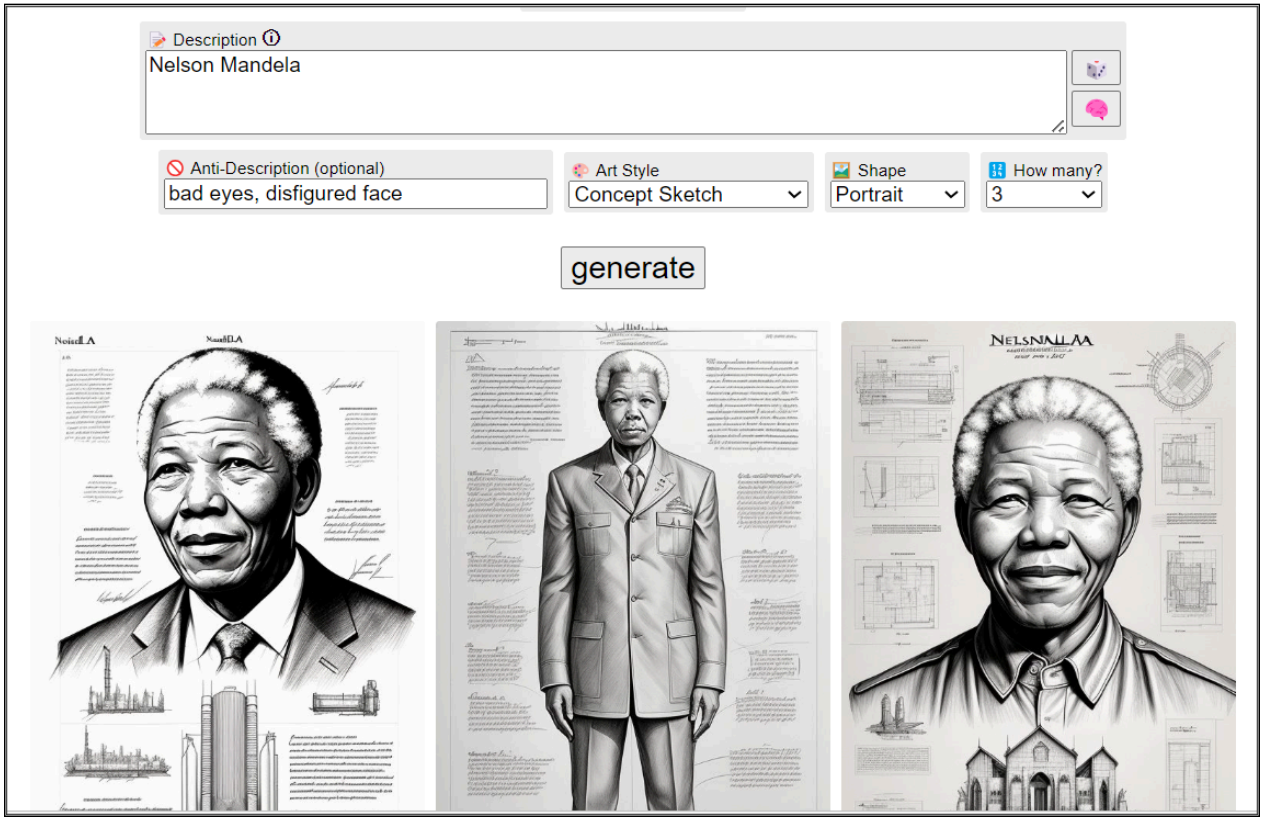
4. Select the desired value from the **Shape** dropdown list. Let's accept the default value, **Portrait**.



5. From the dropdown **How many?** select the number of samples you want to generate. Let's accept the default value of 3.



6. Click the **generate** button to generate the portraits based on the attributes provided in the previous steps. The following image shows the output produced.



Try Yourself!

Selecting a particular art style gives you the opportunity to add various details, like shot, color, effect, and genre, to refine the image. Adding a shot will determine the distance of the camera from the scene or the object. You can try out different colors and add different effects to the portrait. For example, bokeh refers to the aesthetic quality of blur produced in those parts of the image that are out-of-focus. And finally, you can select the genre of the portrait. Please note that all add-detail options are not available for all art styles. For example, genre is unavailable if the selected art style is **Cinematic** or **Casual** Photo.

Try generating a portrait with a different style, say **Cinematic**. Try modifying the values of different attributes, such as shot, color, effect, and genre, and generate the portraits.

Summary

Congratulations on completing the hands-on lab, Creating AI Portraits.

In this lab, you explored the popular, open-source image generation tool, AI Face Generator. You used this generative AI tool to create realistic portraits that closely resemble those of actual individuals. You also explored different art styles and artistic expressions to create unique portraits.

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