# **(Optional) 10 Minutes**

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# **Hands-on Lab: Image Generation in Action with Microsoft Copilot.**

## **Learning Objectives**

#### After completing this lab, you will be able to:

#### Explore the image-generation capabilities of generative AI using Microsoft Copilot

#### Generate an image caption using Microsoft Designer

#### Create thumbnail images representing larger images using Microsoft Designer

#### Note: These exercises are optional, as using the Microsoft Designer tool requires signing in with your email account.

Exercise 1: Generate image caption using Microsoft Designer

#### In the digital age, image captions have gained even more importance due to their role in improving accessibility for people with visual impairments. Screen readers and other assistive technologies can read these captions aloud, allowing individuals who cannot see the image to understand its content. Generative AI models simplify the task of predicting the captions for the given image.

#### In this exercise, you will generate the caption for an image using GPT- powered Microsoft Copilot.

# What is Microsoft Copilot?

#### Microsoft Copilot is an LLM-based (large language model) chatbot developed by Microsoft. It can cite sources, create poems, and write songs.

#### Copilot uses generative AI technology (Microsoft Prometheus model) built upon OpenAI's GPT-4 foundational large language model, which has been fine-tuned using supervised and reinforcement learning techniques. Copilot's conversational interface style resembles ChatGPT's. The chatbot can communicate using numerous languages and dialects.

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#### The free version of Microsoft Copilot includes several default chatbots, including the standard Copilot chatbot and Microsoft Designer.

#### Microsoft's Designer is a tool for making quick and easy graphic designs. It combines a breadth of tools to offer features such as Image Creation powered by DALL-E, Design Creator AI, Freehand Design Tools, Photo Editing Tools, and Brand Kit Generator.

#### Microsoft Designer is oriented toward generating images from your ideas that enhance your design or even create clever caption and hashtag options.

#### Let's generate captivating captions for the images using Microsoft Copilot's Designer GPT model.

# Step 1: Select the image for caption generation

#### Go to <https://copilot.microsoft.com/images/create?cc=ls&setlang=rw>

#### Select the image for which you want to generate the caption.

1. Click on create

