

Have fun with DALL·E generated art in your Teams conversations



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M365 Development

- ▶ Works almost exclusively with MS technologies (M365, Azure etc.)
- ▶ Writes code for a living (and hobby)
- ▶ Likes to run (health permitting)
- ▶ DIY enthusiast



Agenda

DALL·E

- ▶ What is it?
- ▶ What can we do with it?
- ▶ How do we use it?

Teams

- ▶ How can we implement AI into Teams?
- ▶ What can we do with AI in Teams?

OpenAI

OpenAI offers different AI-powered products, including:

- ▶ **DALL·E 2** - generate an image from a description
- ▶ **GPT-3.5** - Natural language conversations and tasks
- ▶ **ChatGPT** - trained AI model for in-depth conversations, based on a model of GPT-3.5
- ▶ **Whisper** - speech to text services, including translation

DALL·E 2

Generates images from text input e.g. 'A dog eating an ice cream wearing a hat'

Resolution

Price

1024×1024

\$0.020 / image

512×512

\$0.018 / image

256×256

\$0.016 / image



AI and Teams Message Extension

Problem:

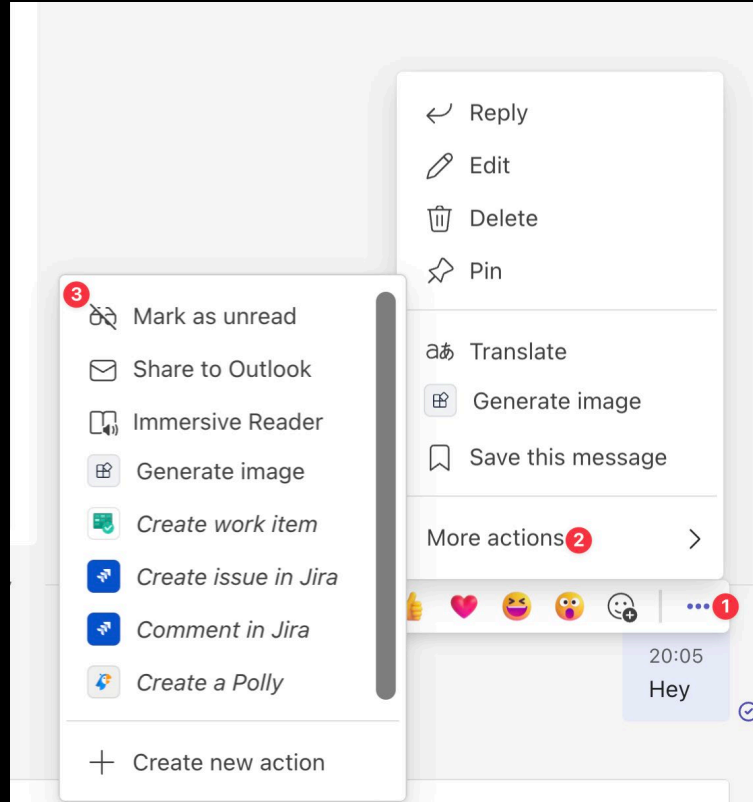
“There is no easy way for me to find an obscure picture of photo that I want to insert into a Teams conversation”

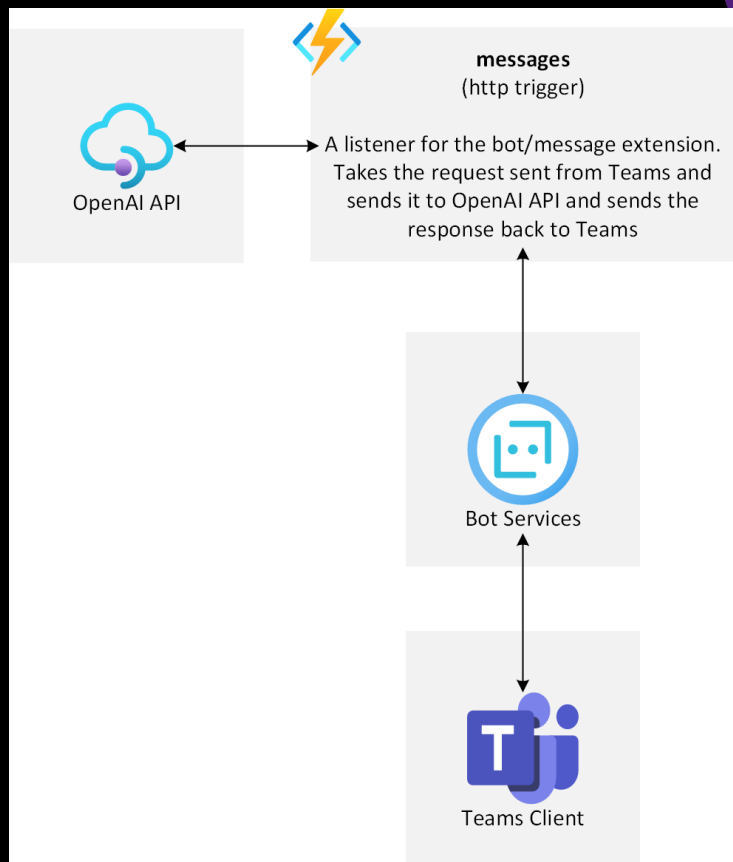
Solution:

Use OpenAI DALL·E 2 with a Message Extension to generate an image for the Teams conversation

Teams Message Extension

A Teams Message Extension is used to interact with an existing or new message in a Teams conversation (personal or Team)





Solution Overview

- ▶ User sends a request (e.g. opening the message extension) from the Teams client
- ▶ Request is sent to the Azure Bot ID defined in Teams app manifest
- ▶ Azure Bot sends the request to the Bot code that is running external to Teams (in this case, Azure Functions)
- ▶ Bot code handles request and delivers response back to Teams (via Azure Bot)
- ▶ Demo today follow this example

The background features a large, solid black area on the left and center. To the right, there is a complex, abstract design composed of various shades of purple and magenta, creating a layered, geometric effect with sharp angles and overlapping shapes.

Demo Time!

Thank you for listening

Code sample is part of the PnP Teams Development Samples:

► DALL·E 2 Messaging Extension: <https://aka.ms/msgext-dalle>



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BobGerman Added sample.json for sample gallery listing aa698ee · 2 months ago History

Name	Last commit message	Last commit date
..		
assets	Added sample.json for sample gallery listing	2 months ago
manifest	Adds msgext-dalle	2 months ago
source	Adds msgext-dalle	2 months ago
README.md	Adds msgext-dalle	2 months ago

README.md

Teams DALL·E 2 Messaging Extension

Summary

This is a sample of using [DALL·E 2](#) inside of Microsoft Teams conversations by using a messaging extension. It allows a user in Teams to describe an image then uses the [OpenAI API](#) to have DALL·E 2 generate an image, which can then be added to the conversation.