12. Bot Playing "Dixit" Board Game

"Dixit" is a creative board game where players describe images in imaginative ways. An agent capable of playing "Dixit" may be created by combining a CLIP-like model for image understanding with a large language model (LLM) for generating and interpreting creative descriptions. We want an agent capable of playing both roles in Dixit: who guesses and who gives the hint.

In this project, you will:

- Develop a bot to play Dixit, based on a pre-trained CLIP-like model to interpret images and a LLM to generate descriptions (GPT APIs are fine).
- Conduct experiments to compare the bot's performance against GPT-4o multimodal and humans in >10 games.

Hashtags: #generative-AI, #multimodal-models

References:
"Creative Captioning: An AI Grand Challenge Based on the Dixit Board Game"
(https://arxiv.org/pdf/2010.00048)
Dixit images: (https://github.com/jminuscula/dixit-online/tree/master/cards)