Instruction tuning large language models (LLMs) using machine-generated instruction-following data has improved zero-shot capabilities on new tasks, but the idea is less explored in the multimodal field.

In this paper, we present the first attempt to

generate multimodal

Large Language and Vision

end-to-end trained large multimodal

connects a vision encoder and LLM for

visual and language understanding. Our

following data. By

such generated data, we

use language-only GPT-4 to

language-image instruction-

instruction tuning on

in@troduce LLaVA:

Assistant, an model that

general2purpose

early experiments show that LLaVA demonstrates impressive multimodel chat abilities,  $\,$ 

sometimes exhibiting