

# Teacher's guide for Understanding Generative AI

This is a guide accompanying posters *Understanding Generative AI: Building Blocks* and *Understanding Generative AI: Prompting*. These posters are free to use learning material under the [CC-BY-NC-SA 4.0](https://creativecommons.org/licenses/by-nc-sa/4.0/) license.

The purpose of these posters is to breakdown the building blocks of generative artificial intelligence and types of prompting so that non-technical students can have a simplified look inside the black box of generative AI and learn to master this technology. We recommend that whenever using these posters as learning material you provide a text guide giving examples of prompts that can be used in your context and explain the rules and restriction for the use of generative AI in your context. We provide some examples next.

**NOTE!** As the technology evolves, please check that these have not become outdated.

**NOTE!** Comply with data processing rules. Do not input sensitive or protected information to public generative AI services. Make sure that you are allowed to use generative AI for reviewing material and make sure that you understand how the AI uses the material that you input.

## Case: Use generative AI for language editing

**Zero-shot prompt:** *Proofread this text: "(insert your text)"*

**One-shot prompt:** *Suggest a language proofed version of this text "(insert your text)". Use academic writing style in the style of "(insert example paragraph)". Keep references.*

**Few-shot prompt:** *You are a professional language editor. You are to help me language edit a scientific article. Keep references in the text. First, suggest a language-reviewed version of the text that you have edited, then justify all changes. This is the first text section: "(insert your text)"*

## Case: Use generative AI to help you review material

Topic of this example is innovation.

**Zero-shot prompt:** *Find examples of innovation in the files.*

**One-shot prompt:** *In file A, Anna describes a moment that led to business innovation with "feedback from customers made us rethink the focus of the store". Suggest other examples of [innovation/change/new idea/improvement/new business] in files A, B and C.*

- Words in brackets are used as synonyms.
- Files A, B and C are examples of the material you input to generative AI.

**Few-shot prompt:** You are reviewing newspaper interviews with entrepreneurs. Your task is to identify stories and examples about business innovation. The material does not present stories of innovation in a linear manner. First, identify a section where the material talks about [innovation/change/new idea/improvement/new business] in files A. Second, compile from the material a background story for this innovation. Use only material in file A. Do not hallucinate. Third, present a summary of the example. Wait for feedback and improve your search based on feedback.

- You can ask the generative AI to present its findings in a table or in a specific file format.
- You can also provide material as images or audio.
- Writing a prompt that works for your purpose might take some iteration.

## Case: Image prompting

Image prompting is different from text prompting and it takes some time to get it right. Image prompting is highly dependent on descriptive words and less dependent on context. Too lengthy prompts may be confusing for image generators and too short or too few descriptive words do not return the type of image you wish to get.

Start an image prompt by giving a job description like “create an image”, “draw”, or “illustrate”. If you are using a generative AI made solely for image creation, you can skip job description in your prompt. Continue by describing the type of image and the main object/focus/subject of the image. The order of the descriptive words may affect the prompt as words in the beginning of the prompt are treated as more important. Therefore, you want to start by describing the style of the image and the main object. Continue by giving information of the background scene, colours, and composition style of the image. Typically, you need to iterate and improve your prompt a few times to get the result you are looking for.

An example prompt: “Help me create an image, use this prompt: A product photography, a blue shiny glass container, one beige skin cream product, on a clean dark gray background, a limb stone, a dark brown branch, a horizontal front shot, soft warm lighting, minimalistic style.”

