

## WHAT IS GENERATIVE AI??



Chat GPT



DALL-E



Stable Diffusion

Red haired woman wearing sunglasses standing with the statue of liberty in the background, photograph, 35 mm film



V1  
Feb, 2022



V2  
Apr, 2022



V3  
Jul, 2022



V4  
Nov, 2022



V5  
May, 2023

u/NorthernFury1994, Midjourney, Reddit, [https://www.reddit.com/r/midjourney/comments/11upu8t/v1\\_v5\\_using\\_the\\_same\\_prompt/](https://www.reddit.com/r/midjourney/comments/11upu8t/v1_v5_using_the_same_prompt/)

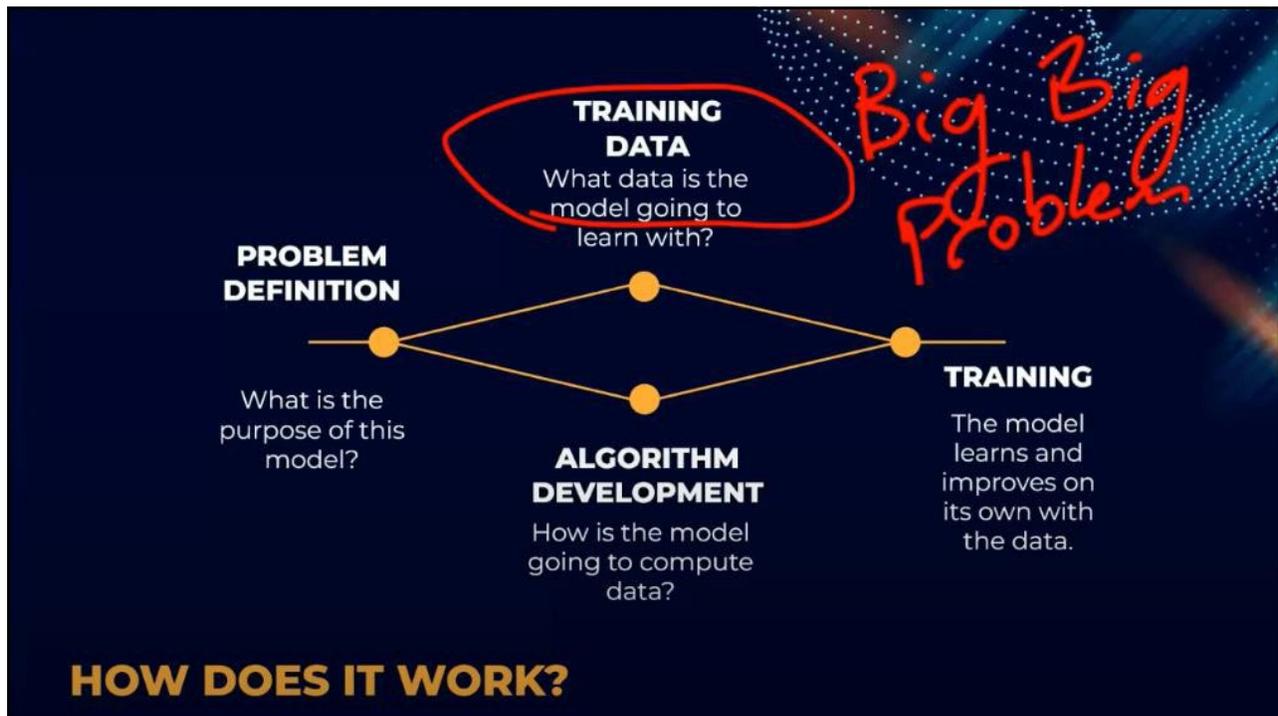
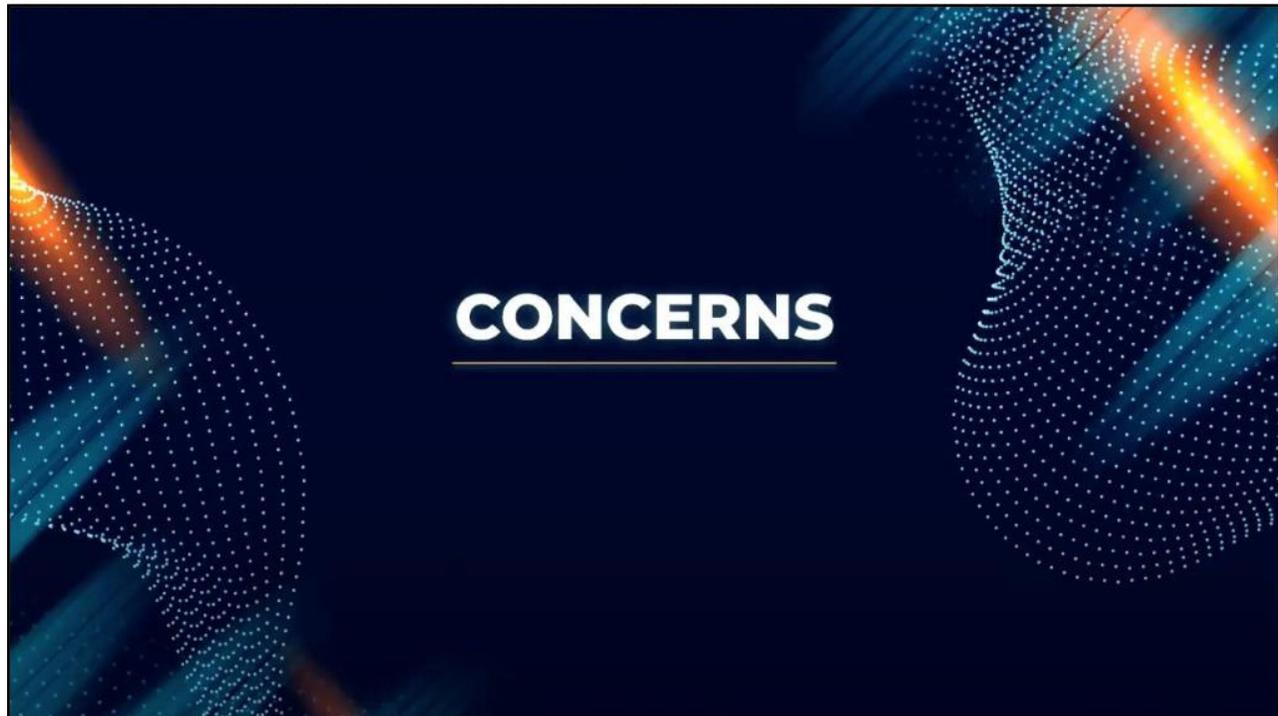
## MIDJOURNEY EVOLUTION

ChatGPT 3.5 was trained on:

**43 Terabytes**  
or  
**43 Million Books**  
of text data

BONUS CONTENT: Ruby, 2023,  
How ChatGPT Works: The Model Behind The Bot  
<https://towardsdatascience.com/how-chatgpt-works-the-models-behind-the-bot-1ce5fca96286>





**“Models are only  
as good as the  
data they are  
trained on.”**

—Chat GPT

## PROBLEMS WITH DATA



### PRIVACY

Data may contain sensitive information about individuals or organizations



### COPYRIGHT

A person's work may be used to train the AI and then the AI can recreate their style

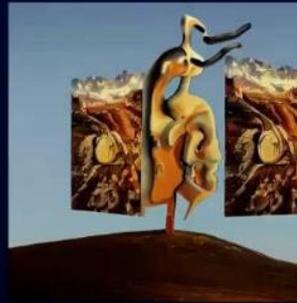
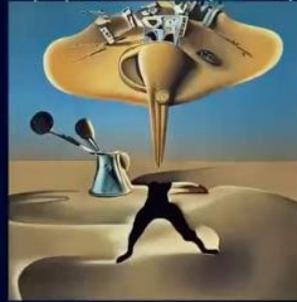


### BIASES

Biased data will create a biased model

## COPYRIGHT

Make me a Dali about spatial agency



Stable Diffusion

## BIASES

According to Stable Diffusion

Doctor



Nurse



Murphy - <https://slate.com/technology/2023/02/dalle2-stable-diffusion-ai-art-race-bias.html>

# AI can be just plain wrong.



There are 10 birds in a tree, a bird photographer takes pictures of 3 of them. How many birds are left in the tree?



If the bird photographer takes pictures of 3 birds, then the number of birds left in the tree is:  

10 (total number of birds) - 3 (number of birds photographed) = 7 birds left in the tree.

So the answer is 7.

Chat GPT - March 15, 2023

**LOGIC?**



what countries start with the letter v



As of my last knowledge update in September 2021, there are two countries whose names start with the letter "V":

1. **Vanuatu:** An island nation located in the South Pacific Ocean.
2. **Vatican City:** Officially known as the Vatican City State, it is an independent city-state enclaved within Rome, Italy. It is the smallest internationally recognized independent state in the world.

Please note that geopolitical situations can change, and new countries might emerge or names might change. Always verify with up-to-date sources for the latest information.

 Regenerate

## Prompt Engineering

Prompt engineering is the process of crafting well-designed and thought-provoking prompts to stimulate critical thinking and creativity in education. Let's dive deeper into this new world.

 by Simon Worley

 Made with Gamma



## Prompt Input Components

From most important to least important

- 1 TASK - Mandatory
- 2 CONTEXT - Important, Helps with detail
- 3 EXEMPLAR - Important, Helps with detail
- 4 PERSONA - Helpful
- 5 FORMAT - Helpful
- 6 TONE - Helpful

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## Let's put it all together

You are a grade 12 senior science teacher at an academically strong high school in North Vancouver (**PERSONA**) and you are halfway through the school year, to which your students are above average (**CONTEXT**).

Write a (**TASK**) seven day unit plan (**FORMAT**) on Photosynthesis for a potential Teacher on Call, that can also be shared to your students.

The lesson plan should include five 70 minute lessons, each following the structure of a 5 minute grabber, a 20 minute lesson, a pair and share thought question, another 20 minute lesson, and a small summary activity (**TASK**). The lesson plans should be in table format with column headers: Time, Activity, Description, Notes (**FORMAT**). The other two days will be labs that take place between class 2-3, and 5-6. This unit will end with 30 multiple choice questions that equally touch upon the content covered in the lessons, activities, and labs. Here is an example of a multiple choice question: What is the primary function of the light-dependent reactions in photosynthesis?

A) To convert carbon dioxide into glucose  
 B) To produce oxygen as a waste product  
 C) To create ATP and NADPH used in the Calvin cycle  
 D) To break down glucose into carbon dioxide and water (**EXEMPLAR**).

Use clear and concise language and add in the occasional cheesy joke. Write in a tone that a grade 12 science student would understand (**TONE**).

From here, you can continue to ask and probe to get more refined and detailed answers and lessons.



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Off to ChatGPT to see this in action

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## Student Examples

