What is Al Art? Presented by Jeremiah Long









ELI5: A person trains a computer program, known as an AI model, to recognize patterns in images by providing it with lots of examples, like pictures of various objects, scenes, or artworks **with captions**.

The Al model, using special tools called **transformers**, learns to understand both the images and the text descriptions.

Over time, with enough training, the Al gets better at creating new images that match text descriptions. When you give it a prompt, it starts with a blurry picture and keeps improving it, adding details that match your words. If it's been shown many images of red cups with their descriptions, it can generate a new image of a red cup even if it's in a style or angle it hasn't seen before.





Useful technical definitions and glossary from Linux Foundation Generative AI Commons:

https://genaicommons.org/glossary











Generative AI (GAI)

A subset of Al focused on generating new content, including text, images, audio, and video, by learning from existing data. To generalize, GAI models create new content by introducing statistical "noise" based on patterns observed during model training. This noise applied to the <u>latent space</u> allows the model to produce output that is new but also mostly relevant. It should be noted that new content is not always relevant nor accurate resulting in output broadly referred to as hallucinations.

Diffusion

In the context of machine learning and AI, <u>diffusion</u> refers to a type of generative model that transforms a distribution of random noise into a structured distribution, such as images or text, through a gradual process of learning and refinement, often used in creating realistic images or other complex data representations

Transformer Models

A type of model used primarily in the field of NLP that utilizes attention mechanisms to boost the speed and quality of tasks such as text generation.

Al Art Tools for Image, Video, Audio

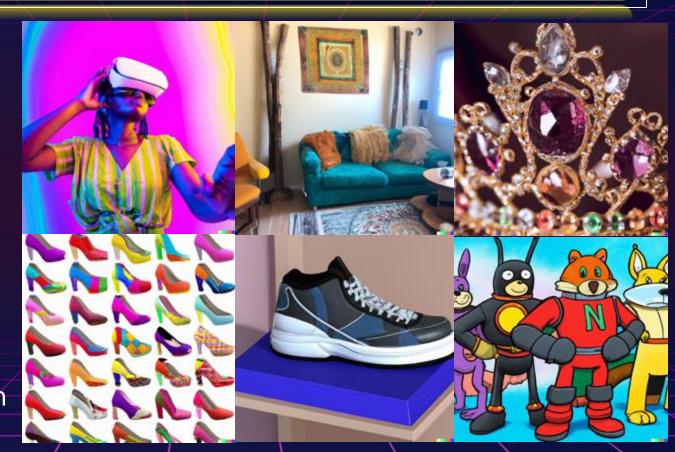
- Adobe Firefly Suite (Firefly, Photoshop, Illustrator, Premier, etc)
- Midjourney Use through Discord or <u>midjourney.com/app</u>
- DALL-E / Sora OpenAl's text-to-image/video models
- Stable Diffusion Mostly open source image, audio, video
- Runway ML Image, text-to-video, lipsync, editing, custom LoRA training
- Meshy AI text to 3D model tools for animation
- Scenario AI Game design assets, 3D models, custom LoRA training
- Comfy UI Highly technical image generation software, open source
- Pika Labs Advanced text-to-video models, camera control
- Luma Labs Gaussian Splat, volumetric capture, 3D, Al video
- Many, many, others...



Al Art examples: What can you make?

WEDGE

- Shoes
- Clothing
- Furniture
- Characters
- Art, Comics
- Jewelry
- Beverages
- Album cover
- Film and TV
- Storytelling
- Idea Exploration





I WILL VOTE

I WANT TO BE AS EQUAL AS EVERYBODY. BECAUSE WITH DISABILITIES, PEOPLE THINK YOU CAN'T VOTE. BUT WHY? WE NEED TO TELL PEOPLE. IT'S NOT ABOUT MY COLOR OR MY DISABILITY. IT'S ABOUT THE RIGHT TO VOTE.



I AM ERIC NAINDOUBA

I AM A SELF-ADVOCATE BASED IN CLARKSTON, GEORGIA.

I WANT YOU TO JOIN ME, LEARN ABOUT THE ADA, AND
BECOME AN ADVOCATE IN YOUR COMMUNITY. WE MUST
WORK TOGETHER TO MAKE CHANGE. THANK YOU!



I WILL IMPROVE MARTA

MARTA MUST TO DO BETTER FOR THE EMPLOYEES. I BELIEVE ALL PEOPLE SHOULD GET WHERE THEY ARE GOING. I WILL WORK TO GET PEOPLE TO IMPROVE MARTA MOBILITY, I BELIEVE THAT WHERE PEOPLE GOTTA GO, PEOPLE GOTTA GO.







Ethics in AI and AI Art

- Al might get the answer wrong, misunderstand what you want, or lack an understanding of your lived experience. It may produce inaccurate images
- Training Data: Some AI companies train their model on copyrighted info and artworks. Some chose to only train on licensed sources.
- Academic Honesty: If you use ChatGPT, or Al Art tools like Runway or Firefly. Just be honest about

Creative CAREERS in







MILLION AI RELATED
JOBS WILL
BE CREATED
BY 2027*

Graphic Designer

Robotics Engineer Writer / Editor

Marketing Coordinator Copywriter

WHAT ARE 8
CREATIVE
AI CAREERS?

Artist / Animator

Data Prompt Engineer

Music Producer Video Content Producer



*According to the 2023 "Harnessing the Power of Al - The Demand for Future SKills" report by Robert Walters and VacancySoft