*Most images in this talk were created with Midjourney. The prompts used are shown on each slide.*

<link to uploaded Jenn headshot> woman in front of a blank chalkboard --niji 5 --style cute
AGENDA

What is Midjourney?
Getting Started
Prompting Basics
Group Exercise
Discussion: Responsible Use
Bing (DALL-E)

Midjourney

a blue merle australian shepherd dog in cartoon style
Crayon (DALL-E mini)
LAION-5B: A NEW ERA OF OPEN LARGE-SCALE MULTI-MODAL DATASETS

by: Romain Beaumont, 31 Mar, 2022

We present a dataset of 5.85 billion CLIP-filtered image-text pairs, 14x bigger than LAION-400M, previously the biggest openly accessible image-text dataset in the world - see also our NeurIPS2022 paper

Authors: Christoph Schuhmann, Richard Vencu, Romain Beaumont, Theo Coombes, Cade Gordon, Aarush Katta, Robert Kaczmarczyk, Jenia Jitsev
Breed Focus: The Australian Shepherd

cão pastor australiano

Les chiens préférés des français 2018 : grand zoom...

Adorable Australian Shepherd

Pastore australiano tra le razze di cani più sane.

A closeup of an Australian Shepherd.

Avustraliyanskaya ovarka (Aussie)

Photo Собаки Австралийская овчарка Бег

Preview Miniature Australian Shepherd
Have I Been Trained?

Enter text or upload an image...

Search 5.8 billion images used to train popular AI art models

Over 1 billion images opted out, and counting

AI organizations, use our API to respect opt-outs in your models

haveibeentrained.com
The top result has 87% similarity with the searched image.

SIGN IN to opt into or out of AI Art systems with Spawning.
Appendix (LAION-5B: An open large-scale dataset for training next generation image-text models)

A Datasheet for LAION-5B dataset

A.1 Motivation

Q1 For what purpose was the dataset created? Was there a specific task in mind? Was there a specific gap that needed to be filled? Please provide a description.

- LAION-5B was created as an open solution to training very large multimodal models such as CLIP or DALL-E. Before the curation of this dataset, the closest in size was YFCC with 100 million image/videos and associated metadata. OpenAI previously used a 15 million sample subset to train a publicly comparable CLIP model, but that pale in comparison to the private 400 million sample dataset they used to train the high-performant CLIP models. At the time of writing this, the ImageNet-1k zero-shot top-1 state-of-the-art, Google’s BASIC, used a dataset of 6.6 billion image-text pairs. With the release of LAION-5B, researchers no longer have to be part of a few selected institutions to study these problems.

Q2 Who created the dataset (e.g., which team, research group) and on behalf of which entity (e.g., company, institution, organization)?

- This dataset is presented by LAION (Large-scale Artificial Intelligence Open Network), a non-profit research organization aiming to democratize access to large-scale open datasets and powerful machine learning models through the research and development of open-source resources. The communication and organization of this project took place on the open LAION discord server.  

Q3 Who funded the creation of the dataset? If there is an associated grant, please provide the name of the grantor and the grant name and number.

- This work was sponsored by Hugging Face and Stability AI.

Q4 Any other comments?

- No.

A.2 Composition

Q5 What do the instances that comprise the dataset represent (e.g., documents, photos, people, countries)? Are there multiple types of instances (e.g., movies, users, and ratings; people and interactions between them; nodes and edges)? Please provide a description.

- We provide 5.8 billion image-text pairs. Each pair consists of the following: an image file url; text caption; width; height; the caption’s language; cosine similarity (CLIP VIT / B-32 for English and MCLIP for multiple and unknown languages); the probability of the image containing a watermark; the probability of a sample being NSFW. We made our models

For more on Datasheets for Datasets, see arxiv.org/pdf/1803.09010.pdf
vibrant california poppies
--niji 5 --style cute

--niji 5 --style expressive

--niji 5 --style scenic
photography shot through an outdoor window of a coffee shop with neon sign lighting, window glares and reflections, depth of field, grandpa in a suit with a cup of coffee in his hands sitting at a table, portrait, kodak portra 800, 105 mm f1.8 --ar 2:1 --v 5 (Julie Wieland)
felted kittens in candyland (waxsyn)

Chinese dragon, its body a burst of radiant hues, spirals through a dreamscape of psychedelic galaxies (Genghis Vagrd)

Charming hidden fantasy square, bohemian paradise, elevated walkways connecting buildings like tree branches (benswiss)
TAKEING YOUR FIRST STEPS
Midjourney

The official server for Midjourney, a text to image AI where your imagination is the only limit.

- 1,462,254 Online
- 15,781,126 Members

Active Now

- /imagine
- # general-1
- # general-20
- # general-11

Your Highlights

Two Subjects (Remix)

clarinet 05/15/2023 4:49 PM

Advanced users can experiment with remix to get two distinct subjects using this five-step ...

See more
Control Camera
clarinet: Here are phrases to add to your prompt that MIGHT help change the camera zoom and angle. Use a :tongue: slider to help it

Puppeteering (consistent characters)
clarinet: Q - Can I use the same character in different scenes? Puppets? Puppeteering?

Create Centaurs
clarinet: Q - How do I make a centaur, specifically? Woe, ye who enter here! 🛡️ If you're working in ---

Fix Cropping Issues
clarinet: Things that might help fight cropping issues: • Say that the background is tall, wide, big, etc. • Say that the subject is small compared
Midjourney Bot sent a link to a calming, relaxing, zen oasis, watercolor style - Variations by @jenniferardy (Open on website for full quality) (fast)

a calm, relaxing, zen oasis, watercolor style - Variations by @jenniferardy (Open on website for full quality) (fast)
5: Use the /imagine Command

About Discord Commands

Interact with the Midjourney Bot on Discord using a Command. Commands are used to create images, change default settings, monitor user info, and perform other helpful tasks.

The `/imagine` command generates a unique image from a short text description (known as a Prompt).

Respect the [Community Guidelines](#). Community guidelines apply wherever the Midjourney Bot is used.

Using `/imagine`

1. Type `/imagine prompt:` or select the `/imagine` command from the slash commands pop-up.

2. Type a description of the image you want to create in the `prompt` field.

3. Send your message.

```
   prompt The prompt to imagine
```

```
  /imagine prompt: vibrant California poppies
```
a cartoon style blue merle australian shepherd catching a frisbee
@jennifergardy (fast)
Live demo!
Our first image!
/imagine prompt description of what to imagine

/imagine prompt URL1 URL 2 what to imagine --parameter1 value --parameter2 value
• Single words work, but descriptive text is better:
  ○ Subject: person, animal, character, location, object, etc.
  ○ Medium: photo, painting, illustration, sculpture, doodle, tapestry, etc.
  ○ Environment: indoors, outdoors, on the moon, in Narnia, underwater, the Emerald City, etc.
  ○ Lighting: soft, ambient, overcast, neon, studio lights, etc
  ○ Color: vibrant, muted, bright, monochromatic, colorful, black and white, pastel, etc.
  ○ Mood: Sedate, calm, raucous, energetic, etc.
  ○ Composition: Portrait, headshot, closeup, birds-eye view, etc.

• Word choice matters - try ‘enormous’ instead of ‘big’
• Specify quantity - ‘three cats’ instead of ‘cats’
• Use collective nouns - ‘flock of birds’ instead of ‘birds’
- **--ar or --aspect**: aspect ratio (default: 1:1)
- **--chaos <0-100>**: increase for more weirdness (default: 0)
- **--no <something>**: do not include the something
- **--tile**: create repeating tile

*a flock of multicolored birds in the style of salvador dali*
a conference audience watching a speaker give a presentation, in a cartoon style, muted colors

Group Exercise
What might you use MJ for in your own work?
Write a prompt to create an image reflecting your chosen use case
What are some of the ways MJ could be used in global health and development?
Write a prompt to create an image reflecting your chosen use case
PAI’s Responsible Practices for Synthetic Media
A Framework for Collective Action

CEPIC
Centre of the Picture Industry

AI Ethical Guidelines
for Responsible Re-Use and Production
of VISUAL CONTENT
<table>
<thead>
<tr>
<th>Principle</th>
<th>Dataset Creation</th>
<th>Media Creation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lawfulness</td>
<td>Respect for copyright, IP, data privacy legislation</td>
<td>Avoid deception and harm</td>
</tr>
<tr>
<td>Transparency</td>
<td>Maintain records of all source images &amp; provenance</td>
<td>Informed consent, disclosure, human-in-the-loop, risks/liabilities of synthetic media</td>
</tr>
<tr>
<td>Necessity</td>
<td>Only what is necessary &amp; sufficient for the project, time-bound</td>
<td>Only within the scope of the project</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Accurate labeling, bias mitigation</td>
<td>Use unbiased dataset containing diverse subjects in various contexts,</td>
</tr>
<tr>
<td>Security</td>
<td>Ensure security of collected data; allow for entries to be removed</td>
<td>Cannot reverse-engineer underlying images</td>
</tr>
</tbody>
</table>

The entire value chain should be accountable, from using existing data to train the algorithm to its publication.
No more window switching

Our PowerPoint add-in lets you create, edit and present your Menti. All inside of PowerPoint.

Mentimeter

Let's get started and set-up your Menti

Choose type

- Multiple Choice
- Word Cloud
- Open Ended
- Scales
- Ranking

Quiz competition

- Select Answer
- Type Answer
- Leaderboard

Do you miss the old add-in?

We are continuously adding more question types to our new PowerPoint add-in. You can still use the old add-in if you prefer.

Switch to the old add-in