

# Prompt book for data lovers II ❤️

An open source exploration on text-to-image and data  
visualization

Brought with love by [Domestic Data Streamers](#)

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## Preface

This book has been created as a free resource for scientists, designers, journalists and storytellers, to inspire them to look through the lenses of data language when using text-to-image software. If you haven't yet check out [our materials Prompt Book here!](#)

This document was created with lots of love by the AI Division of [Domestic Data Streamers](#), Veronika Gryshchuk, Thinh Truong and Pau Aleikum.

For more resources follow our [IG account](#) and subscribe to [our newsletter](#).

All the images have been created using Dalle2, but with similar results on Stable Diffusion. Thanks to [Krea.ai](#) and [Boldtron](#) for being part of this explorative journey.



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# Introduction

This is just one way to build data visualization through AI, through the following months hopefully we will release more documents with more methods and ideas.

In this document we will specifically explore data visualization through comparison. You will be able to explore over 50 semantic fields, more than 400 quantitative words to describe these fields and some examples of how they can be applied to simple visualizations.



# Semantic Fields

A semantic field is a group of words with related meanings. The words in a semantic field are usually part of a category that helps define a territory of knowledge. This is the collection of the semantic fields that we have explored in order to generate degrees and comparisons.

## Standard Families

Color	Measurement	Space	Material
Brightness Saturation Contrast Transparency Luminance	Quantity Size Height Width Length Volume Depth Weight Angle	Area Position Distance Dispersion Density Movement Shape	Erosion Roughness Glossiness

# Subjective families

- Temporality

Value

Order

Toughness

Closeness

Turbulence

Resolution

Focus

Image

Body weight

Skin tone

Skin
- Hair

Mood

Food

Living stage

Weather

Pollution

Wetness

Moon phase

Sun position

Technology

Stage of development

Sound frequency



# Standard semantic families

When we talk about standard families, we refer to those families that somehow define the basis of any representational method, shape, color, position and so on... These semantic families have been extracted from the different variables of the semiology studies from the famous and widely cited cartographer [Jacques Bertin](#) and extended through the physical variables of described on the researcher [Yvonne Iansen](#) on data physicalization.

**Disclaimer:** We will be using as a common starting object a blue cube so we can compare the different effects of the adjectives. That being said, in some of the linguistic families we will need to change the blue cube for another base prompt to be able to illustrate the visualization idea behind, as not everything can be exemplified by a blue cube. (For example when talking about mood or facial expressions)



# Luminance

✓ Midjourney  
✗ Stable Diffusion

Very gloomy



Prompt: *very gloomy* blue cube

Gloomy



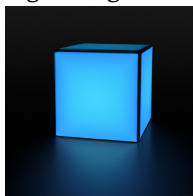
Prompt: *gloomy* blue cube in a black room

Slightly gloomy



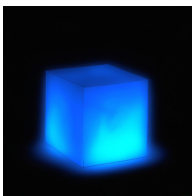
Prompt: *slightly gloomy* blue cube in a black room

Slightly glowing



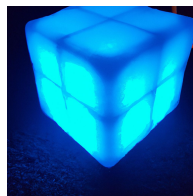
Prompt: *slightly glowing* blue cube

Glowing



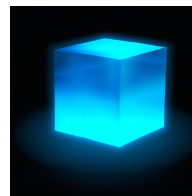
Prompt: *glowing* blue cube

Very glowing



Prompt: *very glowing* blue cube

Extremely glowing

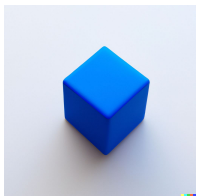


Prompt: *extremely glowing* blue cube

# Quantity

✗ Midjourney  
✗ Stable Diffusion

One



Prompt: Top view of *one* blue cube on white table

Two



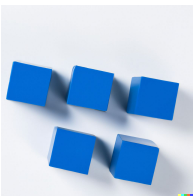
Prompt: Top view of *two* blue cubes on white table

Three



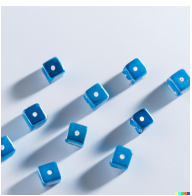
Prompt: Top view of *three* blue cubes on white table

Five



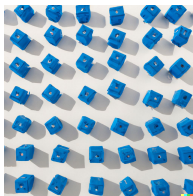
Prompt: Top view of *five* blue cubes on white table

Ten



Prompt: Top view of *ten* blue cubes on white table  
Note: 'ten' didn't work but '10' worked instead.

Fifty



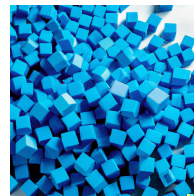
Prompt: Top view of *fifty* blue cubes on white table

Hundred



Prompt: Top view of *a hundred* blue cubes on white table

Thousand



Prompt: Top view of *a thousand* blue cubes on white table

# Quantity (cont.)

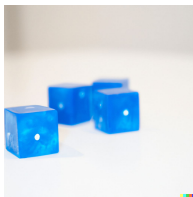
Midjourney  
Stable Diffusion

One



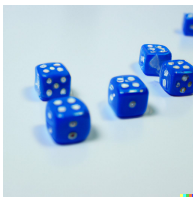
Prompt: There is *no* blue cube on white table  
Note: in this case of 'no', it always generates something

A few



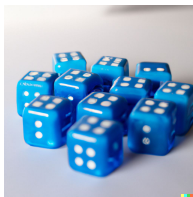
Prompt: There are *a few* blue cubes on white table

Any



Prompt: There are *any* blue cubes on white table

Some



Prompt: There are *some* blue cubes on white table

Many



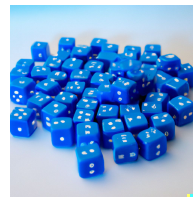
Prompt: There are *many* blue cubes on white table

A lot



Prompt: There are *a lot of* blue cubes on white table

A great amount of



Prompt: There are *a great amount of* blue cubes on white table

# Quantity (cont.)

Midjourney  
Stable Diffusion

Hundred thousand



Prompt: Top view of *a hundred thousand* blue cube particles on white table

One billion



Prompt: Top view of *a billion* blue cube particles on white table

One trillion



Prompt: Top view of *a trillion* blue cube particles on white table

One zillion



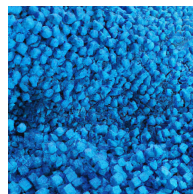
Prompt: Top view of *a zillion* blue cube particles on white table

One googolplex



Prompt: Top view of *a googol* blue cube particles on white table

An infinite number of



Prompt: Top view of *an infinite number of* blue cube particles  
Note: 'on white table' is removed to not have the 'finite' context

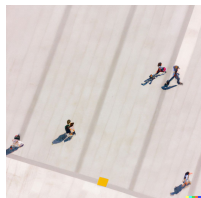
Note: in these large number cases, the object context changed to 'particles' showed better result



# Density

✓ Midjourney  
✓ Stable Diffusion

Extremely sparse



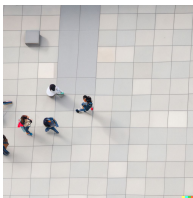
Prompt: aerial view of *extremely sparse* group of people on the street

Very sparse



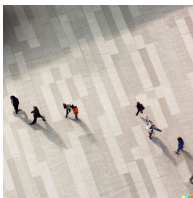
Prompt: aerial view of *very sparse* group of people on the street

Sparse



Prompt: aerial view of a *sparse* group of people on the street

Slightly sparse



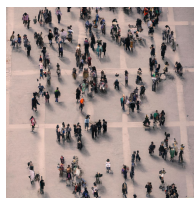
Prompt: aerial view of a *slightly sparse* group of people on the street

Slightly dense



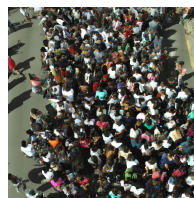
Prompt: aerial view of a *slightly dense* group of people on the street

Low dense



Prompt: aerial view of *low dense* group of people on the street

Very dense



Prompt: aerial view of a *very dense* group of people on the street

Extremely dense



Prompt: aerial view of an *extremely dense* group of people on the street

# Movement

✗ Midjourney  
✓ Stable Diffusion

Extremely slow



Prompt: a big blue cube with wheels going *extremely slow* compare to a walking person on the pavement front view

Ponderous



Prompt: a big blue cube with wheels going *ponderous* compare to a walking person on the pavement front view

Slow



Prompt: a big blue cube with wheels going *slow* compare to a walking person on the pavement front view, long shot

Still



Prompt: a big blue cube with wheels *standing still* compare to a walking person on the pavement front view

Speedy



Prompt: a big blue cube with wheels going *speedy* compare to a walking person on the pavement front view

Fast



Prompt: a big blue cube with wheels going *fast* compare to a walking person on the pavement front view

Extremely fast



Prompt: a big blue cube with wheels going *extremely fast* compare to a walking person on the pavement front view

Dangerously fast



Prompt: a big blue cube with wheels going *dangerously fast* compare to a walking person on the pavement front view

# Brightness (tint+tone)

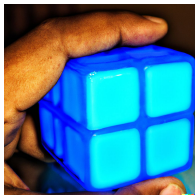
Midjourney  
Stable Diffusion

Extremely  
bright



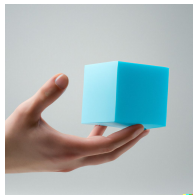
Prompt: *Extremely bright* blue cube near human hand

Very bright



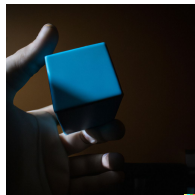
Prompt: *Very bright* blue cube near the human hand

Bright



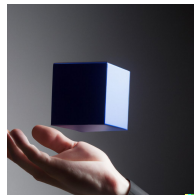
Prompt: *Bright* blue cube near the human hand

Shady



Prompt: *Shady* blue cube near the human hand

Dark



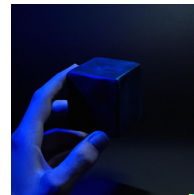
Prompt: *Dark* blue cube near the human hand

Very dark



Prompt: *Very dark* blue cube near the human hand

Extremely  
dark



Prompt: *Extremely dark* blue cube near the human hand

# Saturation

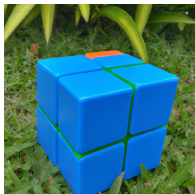
Midjourney  
Stable Diffusion

Pure color ...



Prompt: *Pure blue color (rgb 0,0,255)* in a cube on the grass

Colorful



Prompt: *Colorful* blue cube on the grass

Shady



Prompt: Cube of a *shady* blue color on the grass

Grey

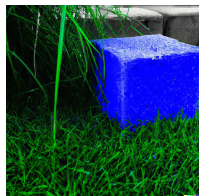


Prompt: *Grey* cube on the grass

# Contrast

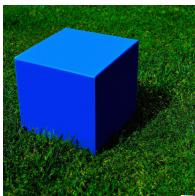
Midjourney  
Stable Diffusion

High



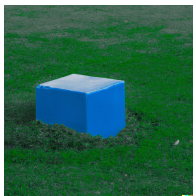
Prompt: *High contrast* of a blue color cube compering with a high contrast green grass

Medium



Prompt: *Medium contrast* of a blue color cube compering with a high contrast green grass

low



Prompt: *Low contrast* of a blue color cube compering with a high contrast green grass

# Transparency

Midjourney  
Stable Diffusion

Maximum opaque



Prompt: *Maximum opaque* blue color cube on the green grass

Slightly opaque



Prompt: *Slightly opaque* blue color cube on the green grass

Slightly transparent



Prompt: *Slightly transparent* blue color cube on the green grass

Maximum transparent



Prompt: *Maximum transparent* blue color cube on the green grass

Extremely transparent



Prompt: *Extremely transparent* blue color cube on the green grass



# Size



Micro



Prompt: A *micro* blue cube in a hand

Tiny



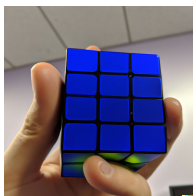
Prompt: A *tiny* blue cube in a hand

Small



Prompt: A *small* blue cube in a hand

Average



Prompt: An *average* blue cube in a hand

Big



Prompt: A *big* blue cube in a hand

Huge



Prompt: A *huge* blue cube on a hand

Gigantic



Prompt: A *gigantic* blue cube compared to a hand

Humongous



Prompt: A hand touching a *humongous* blue cube

## Size (cont.)



One-tenth of



Prompt: A blue cube *with the size one-tenth of a hand*

Half the size of



Prompt: A blue cube *with half the size of a hand*

Double the size of



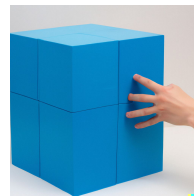
Prompt: A blue cube *with double the size of a hand*

Triple the size of



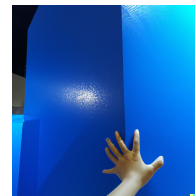
Prompt: A hand touching a blue cube *triple the size of that hand*

Ten times bigger



Prompt: A hand touching a blue cube *ten times bigger than that hand*

A hundred times bigger



Prompt: A hand touching a blue cube *a hundred times bigger than that hand*

# Height



Extremely short



Prompt: An *extremely short height* blue cube next to a person

Very short



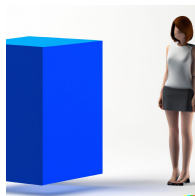
Prompt: A *very short height* blue cube next to a person

Short



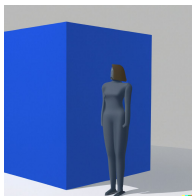
Prompt: A *person standing next to a shorter* blue cube

Slightly short



Prompt: A *slightly short height* blue cube next to a person

Slightly tall



Prompt: A blue cube *slightly taller* than a person

Tall



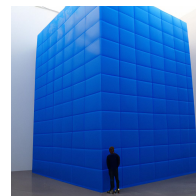
Prompt: A blue cube *taller* than a person

Very tall



Prompt: A blue cube *much much taller* than a person

Extremely tall

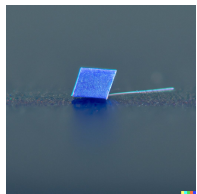


Prompt: A *person standing next to an extremely tall* blue cube

# Width



Extremely thin



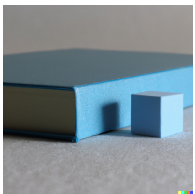
Prompt: side view of an *extremely thin* blue cube, which is 0.2 millimeters thin, as thin as a needle

Very thin



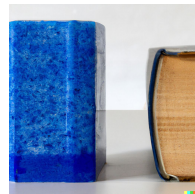
Prompt: side view of a *very thin* blue cube, which is 5 millimeters thin, as thin as the world's thinnest smartphone, next to that phone

Thin



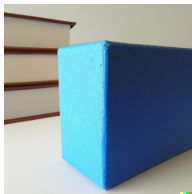
Prompt: side view of a *thin* blue cube, which is 2 centimeters thin, as thin as a book, next to a book

Slightly thick



Prompt: side view of a *slightly thick* blue cube, 10 centimeters thick, as thick as an encyclopedia, next to that encyclopedia

Thick



Prompt: side view of a *thick* blue cube, 20 centimeters thick, as thick as a stack of books, next to that stack of books

Very thick



Prompt: side view of a *very thick* blue cube, 40 centimeters thick, as thick as an old tv, next to that old tv

Extremely thick

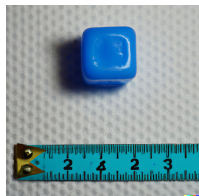


Prompt: side view of an *extremely thick* blue cube, 60 centimeters thick, as thick as a tree, next to that tree

# Length

Midjourney  
Stable Diffusion

Extremely short



Prompt: top view of an *extremely short* blue cube, next to a ruler

Very short



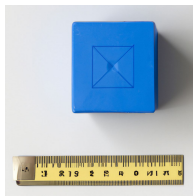
Prompt: top view of a *very short* blue cube, next to a ruler

Short



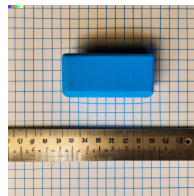
Prompt: top view of a *short* blue cube, next to a ruler

Slightly short



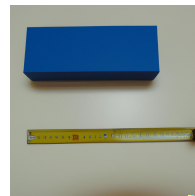
Prompt: top view of a *slightly short* blue cube, next to a ruler

Slightly long



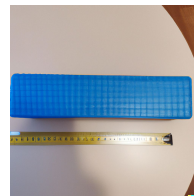
Prompt: top view of a *slightly long* blue cube, 10 centimeters long, next to a ruler

Long



Prompt: top view of a *long* blue cube, 20 centimeters long, next to a ruler

Very long



Prompt: top view of a *very long* blue cube, 30 centimeters long, next to a ruler

Extremely long



Prompt: top view of an *extremely long* blue cube, 60 centimeters long, next to a ruler

# Volume (and Optimism)

Midjourney  
Stable Diffusion

Empty



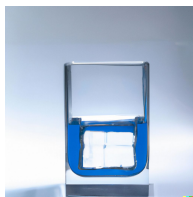
Prompt: front view of an *empty* glass cube, white background

Slightly empty



Prompt: front view of a *slightly empty* glass cube containing blue water, white background

Half-full



Prompt: front view of a *half-full* glass cube containing blue water, white background

Slightly Full



Prompt: front view of a *slightly full* glass cube containing blue water, white background

Full



Prompt: front view of a *full* glass cube containing blue water, white background

Overfull



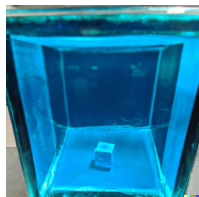
Prompt: front view of a *overfull* glass cube containing blue water, white background



# Depth

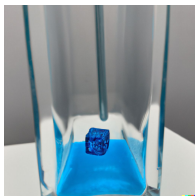
Midjourney  
Stable Diffusion

Extremely deep



Prompt: front view of a blue cube *extremely deep* in a very tall glass bottle

Very deep



Prompt: front view of a blue cube *very deep* in a very tall glass bottle

Slightly deep



Prompt: front view of a blue cube *submerged slightly deeply* in a very tall glass bottle

Slightly shallow



Prompt: front view of a blue cube *submerged slightly shallowly* in a very tall glass bottle

Very shallow



Prompt: front view of a blue cube *very very very shallowly* in a very tall glass bottle

Extremely shallow



Prompt: front view of a blue cube *submerged extremely shallowly* in a very tall glass bottle, *extremely shallow*

# Depth (cont.)

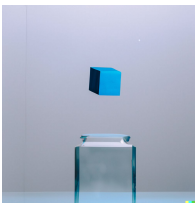
Midjourney  
Stable Diffusion

Elevated



Prompt: front view of a blue cube floating *elevated* over a glass bottle

High



Prompt: front view of a blue cube floating *high* over a glass bottle

Extremely high



Prompt: front view of a blue cube floating *extremely high* over a glass bottle

Skyscraping



Prompt: front view of a blue cube floating *skyscraping* over a glass bottle

# Weight

Midjourney  
Stable Diffusion

Ultralight



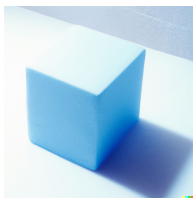
Prompt: an *ultralight* blue cube on a scale

Very light



Prompt: a *very light* blue cube on a scale

Light



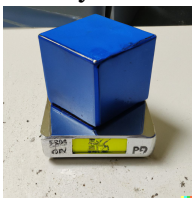
Prompt: a blue cube *made of light material* on a scale

Medium



Prompt: a *medium* blue cube on a scale

Medium heavy



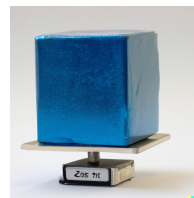
Prompt: a *medium heavy* blue cube on a scale

Heavy



Prompt: a *heavy* blue cube on a scale

Ultraheavy



Prompt: an *ultraheavy* blue cube on a scale

# Angle

Midjourney  
Stable Diffusion

5 degree



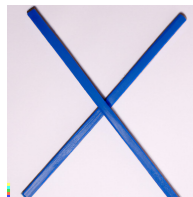
Prompt: front view of 2 blue sticks forming a *5 degree* angle

30 degree



Prompt: front view of 2 blue sticks forming a *30 degree* angle

50 degree



Prompt: front view of 2 blue sticks forming a *50 degree* angle

90 degree



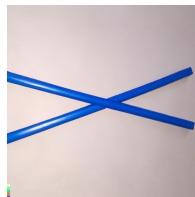
Prompt: front view of 2 blue sticks forming a *90 degree* angle

120 degree



Prompt: front view of 2 blue sticks forming a *120 degree* angle

170 degree



Prompt: front view of 2 blue sticks forming a *170 degree* angle

# Area

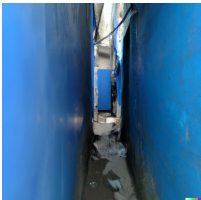
✓ Midjourney  
✗ Stable Diffusion

Extremely  
narrow



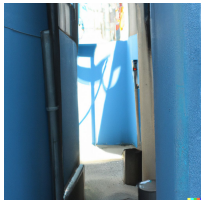
Prompt: an *extremely narrow* blue area

Very  
narrow



Prompt: an *very narrow* blue area

Narrow



Prompt: a *narrow* blue area

Slightly  
wide



Prompt: a *slightly wide* blue alley

Very  
wide



Prompt: a *very wide* blue alley

Extremely  
wide

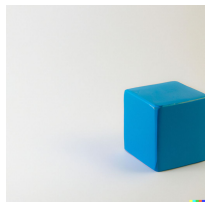


Prompt: an *extremely wide* blue alley, *extremely wide*

# Position

✗ Midjourney  
✓ Stable Diffusion

Left



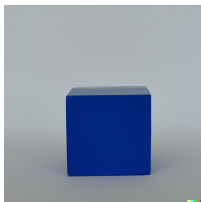
Prompt: front view of a blue cube on the *left*, white background

Slightly left



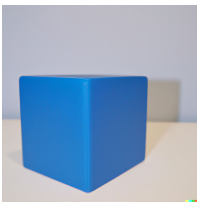
Prompt: front view of a blue cube on the *slightly left*, white background

Middle



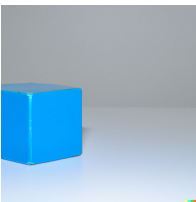
Prompt: front view of a blue cube on the *middle of the frame*, white background

Slightly right



Prompt: front view of a blue cube on the *slightly right*, white background

Right



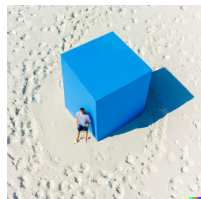
Prompt: front view of a blue cube on the *right*, white background

Note: when generates position, DALL-E tends to generate the opposite direction compared to us looking at the picture. Maybe it uses the subject as the position reference so the blue cube will stand on our left on the actual scene and then it takes the photo and it will appear on the right side of the photo.

# Distance

Midjourney  
Stable Diffusion

Extremely close



Prompt: aerial view of a blue cube standing *extremely close* to a person on white sand

Very close



Prompt: aerial view of a blue cube standing *very close* to a person on white sand

Close



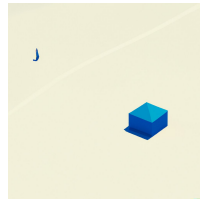
Prompt: aerial view of a blue cube standing *close* to a person on white sand

Slightly close



Prompt: aerial view of a blue cube standing *slightly close* to a person on white sand

Far



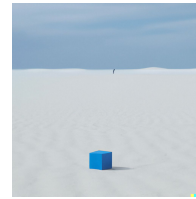
Prompt: aerial view of a blue cube standing *far* from a person on white sand

Very far



Prompt: aerial view of a blue cube standing *very far* from a person on white sand

Extremely far

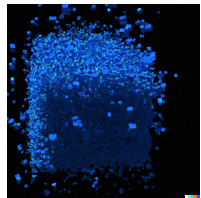


Prompt: a blue cube standing *extremely far* to a person on white sand

# Dispersion

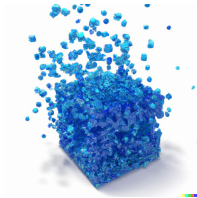
Midjourney  
Stable Diffusion

Extremely concentrated



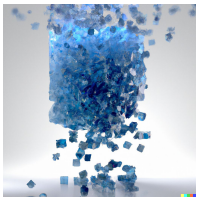
Prompt: *Extremely extremely concentrated* blue cube particles

Very concentrated



Prompt: *Very concentrated* blue cube particles

Concentrated



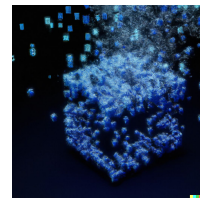
Prompt: *Concentrated* blue cube particles

Slightly concentrated



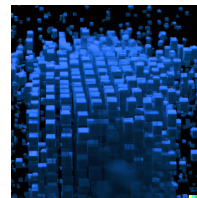
Prompt: *Slightly concentrated* blue cube particles

Slightly Diffused



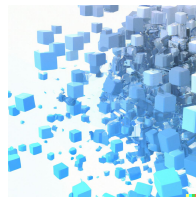
Prompt: *Slightly diffused* blue cube particles

Diffused



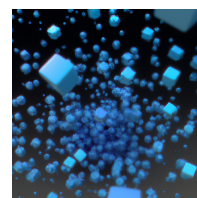
Prompt: *Diffused* blue cube particles

Very diffused



Prompt: *Very diffused* blue cube particles

Extremely diffused



Prompt: *Extremely diffused* blue cube particles

# Shape

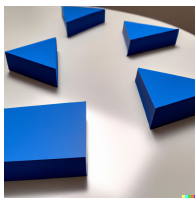
✗ Midjourney  
✓ Stable Diffusion

Irregular



Prompt: *irregular* blue shapes on the table front view

Regular

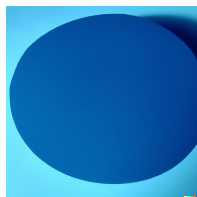


Prompt: *regular* blue shapes with *equal angle* corners on the table

# Shape (cont.)

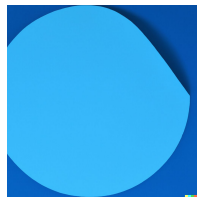
✗ Midjourney  
✓ Stable Diffusion

Well rounded



Prompt: a cutout blue paper with a *well rounded* shape

Rounded



Prompt: a cutout blue paper with a *rounded shape*

Sub-rounded



Prompt: a cutout blue paper with a *subrounded* shape

Sub-angular



Prompt: a cutout blue paper with a *subangular* shape

Angular



Prompt: a cutout blue paper with an *angular shape*

# Erosion

✗ Midjourney  
✓ Stable Diffusion

Extremely rusty



Prompt: an *extremely rusty* blue cube

Very rusty



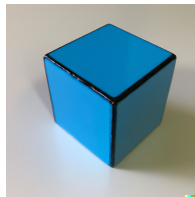
Prompt: a *very rusty* blue cube

Slightly rusty



Prompt: a *slightly rusty* blue cube

Slightly shiny



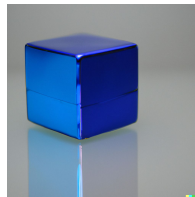
Prompt: a *slightly shiny* blue cube

Shiny



Prompt: a *shiny* blue cube

Extremely shiny



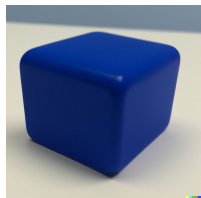
Prompt: an *extremely shiny* blue cube, *extremely shiny*



# Roughness

✓ Midjourney  
✗ Stable Diffusion

Extremely  
smooth



Prompt: an *extremely smooth* blue cube,  
*extremely smooth*

Very smooth



Prompt: a *very smooth*  
blue cube

Smooth



Prompt: a *smooth* blue cube

Rough



Prompt: a *rough* blue cube

Very rough



Prompt: a *very rough*  
blue cube

Extremely  
rough

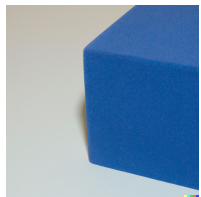


Prompt: an *extremely rough*  
blue cube

# Glossiness

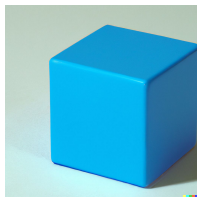
✓ Midjourney  
✓ Stable Diffusion

Matte



Prompt: a *matte* blue cube  
with *matte* material, close up

Slightly  
matte



Prompt: a *slightly matte* blue  
cube, close up

Slightly  
shiny



Prompt: a *slightly shiny* blue  
cube, close up

Shiny



Prompt: a *shiny* blue cube,  
close up

# Subjective semantic families

We call subjective families the ones that their qualitative attributes have different interpretations depending on the context you show it. So for example a thumbs up (the gesture) is widely recognised sign of approval or agreement BUT is actually used as an insult in Bangladesh. This contextual approach is basic to understand that the families that you will find now are words that mean different things for different people, cultures and contextual realities and they could be misunderstood both by the AI and the audience.

**Disclaimer:** We will be using as a common starting object a blue cube so we can compare the different effects of the adjectives. Said that in some of the linguistic families we will need to change the blue cube for another base prompt to be able to illustrate the visualization idea behind, as not everything can be exemplified by a blue cube. (For example when talking about complex emotions of facial expressions)



# Temporality

✗ Midjourney  
✓ Stable Diffusion

Ancient



Prompt: an *ancient* blue cube in museum

Antique



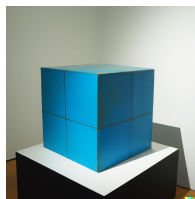
Prompt: an *antique* blue cube in museum

Vintage



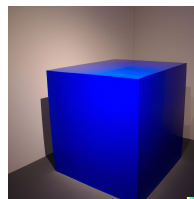
Prompt: a *vintage* blue cube in museum

Old



Prompt: an *old* blue cube in museum

Relatively new



Prompt: a *relatively new* blue cube in museum

New



Prompt: a *new* blue cube in museum

Extremely new



Prompt: an *extremely new* blue cube in museum

# Value

✗ Midjourney  
✓ Stable Diffusion

Worthless



Prompt: *worthless* blue watches

Very cheap



Prompt: *very cheap* blue watches

Cheap



Prompt: *cheap* blue watches

Austere



Prompt: *austere* blue watches

Low-cost



Prompt: *low-cost* blue watches

Expensive



Prompt: *expensive* blue watches

Very expensive



Prompt: *very expensive* blue watches

Luxurious



Prompt: *luxurious* blue watches

Precious



Prompt: *precious* blue watches

# Order



Very chaotic



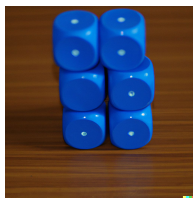
Prompt: *very very chaotic*  
blue cubes on the table

Chaotic



Prompt: *chaotic* blue cubes  
on the table

Organized



Prompt: *organized* blue  
cubes on the table

Very organized



Prompt: *very organized*  
blue cubes on the table

# Toughness



Extremely  
soft



Prompt: blue cube made of  
*extremely soft* material on the  
table, close up

Very soft



Prompt: blue cube made of  
*very soft* material on the  
table, close up

Soft



Prompt: blue cube made of  
*soft* material on the table,  
close up

Slightly  
soft



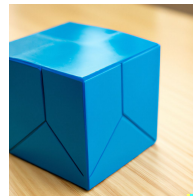
Prompt: blue cube made of  
*slightly soft* material on the  
table, close up

Slightly  
rigid



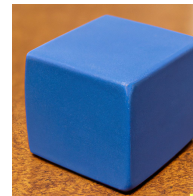
Prompt: blue cube made of  
*slightly rigid* material on the  
table, close up

Rigid



Prompt: blue cube made of  
*rigid* material on the table,  
close up

Very rigid



Prompt: blue cube made of  
*very rigid* material on the  
table, close up

Extremely  
rigid



Prompt: blue cube made of  
*extremely rigid* material on  
the table, close up



# Openness

Midjourney  
Stable Diffusion

Sealed



Prompt: *sealed* blue letter,  
realistic photo

Locked



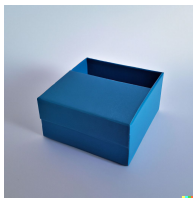
Prompt: *locked* small blue  
box

Closed



Prompt: *closed* small blue  
box

Half closed



Prompt: *half closed* small  
blue box

Slightly closed



Prompt: *slightly closed*  
small blue box  
Note: didn't generate it

Slightly opened



Prompt: *slightly opened*  
small blue box

Half opened



Prompt: *half opened* small  
blue box

Opened



Prompt: *opened* small blue  
box

# Turbulence

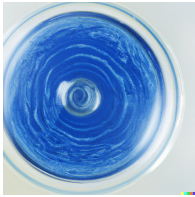
Midjourney  
Stable Diffusion

Relaxed



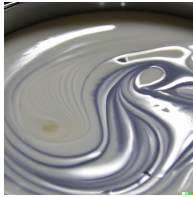
Prompt: *fluid in relaxed*  
*state*, top view

Balanced



Prompt: *balanced*  
*turbulence* fluid, top view

Moderate



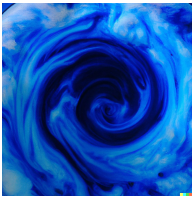
Prompt: *moderate*  
*turbulence* fluid

Unstable



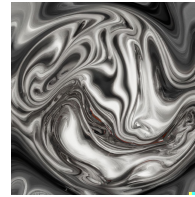
Prompt: *unstable*  
*turbulence* fluid

Severe



Prompt: *severe* *turbulence*  
fluid

Extreme



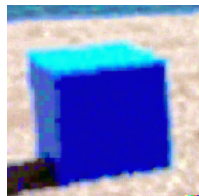
Prompt: *extreme* *turbulence*  
fluid



# Resolution

✗ Midjourney  
✗ Stable Diffusion

Extremely pixelated



Prompt: *an extremely pixelated resolution* blue cube on the sand

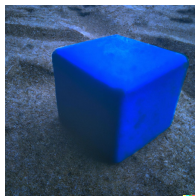
Pixelated



Prompt: *image with a pixelated, bad quality resolution* of a blue cube on the sand

Note: it's hard for DALL-E to give bad quality images

Low



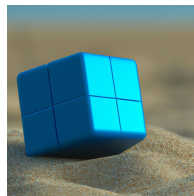
Prompt: *a low resolution, bad quality* image of a blue cube on the sand

High



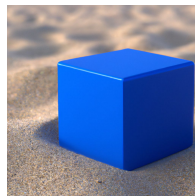
Prompt: *image with a high resolution* of a blue cube on the sand

4k



Prompt: *image with a 4K resolution* of a blue cube on the sand

8k



Prompt: *image with a 8K resolution* of a blue cube on the sand

10k

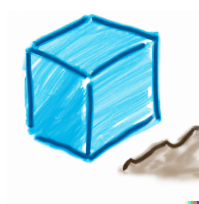


Prompt: *image with a 10K resolution* of a blue cube on the sand

# Resolution (cont.)

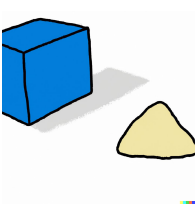
✗ Midjourney  
✓ Stable Diffusion

Poorly drawn



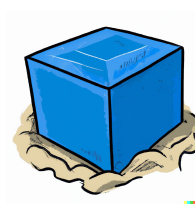
Prompt: *poorly drawn* blue cube and sand

Basic drawing



Prompt: *basic drawing* of a blue cube and sand

Detailed drawing



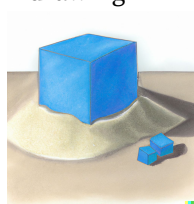
Prompt: *detailed drawing* of a blue cube and sand

Extremely detailed drawing



Prompt: *an extremely detailed drawing* of a blue cube and sand

Realistic drawing



Prompt: *realistic drawing* of a blue cube and sand

Hyper realistic drawing



Prompt: *hyper realistic drawing* of a blue cube and sand

# Focus



Completely out of focus



Prompt: *completely out of focus* photo of a blue cube

Very blurry



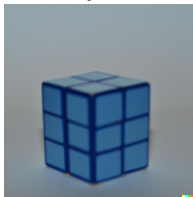
Prompt: *very blurry* photo of a blue cube

Medium blurry



Prompt: *medium blurry* photo of a blue cube

Slightly blurry



Prompt: *slightly blurry* photo of a blue cube

In focus



Prompt: *in focus* photo of a blue cube

Sharp focus



Prompt: *sharp focus* photo of a blue cube

Extremely sharp focus

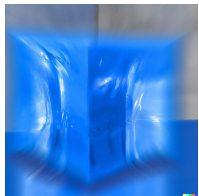


Prompt: *extremely sharp focus* photo of a blue cube

# Image



Severely distorted



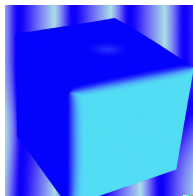
Prompt: *severely distorted* image of a blue cube

Highly distorted



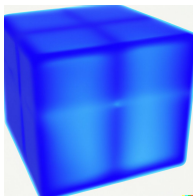
Prompt: *highly distorted* image of a blue cube

Medium distorted



Prompt: *medium distorted* image of a blue cube

Slightly distorted



Prompt: *slightly distorted* image of a blue cube

Undistorted

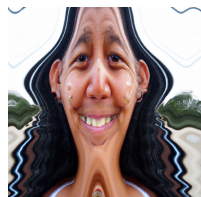


Prompt: *undistorted* image of a blue cube, realistic photo

# Image (cont.)

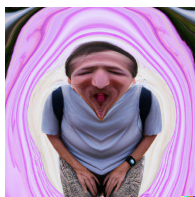
Midjourney  
Stable Diffusion

Severely  
distorted



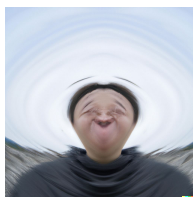
Prompt: *severely distorted*  
image of people

Highly distorted



Prompt: *highly distorted*  
image of people

Medium  
distorted



Prompt: *medium distorted*  
image of people

Slightly  
distorted



Prompt: *slightly distorted*  
image of people

Undistorted



Prompt: *undistorted* image of  
people

# Body weight

Midjourney  
Stable Diffusion

Anorexic

Skinny

Well built

Muscular

Chubby

Fat

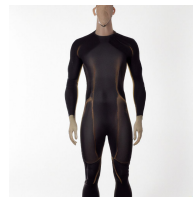
Overweight

Overly obese

Banned word in DALL-E



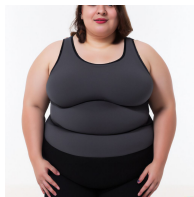
Prompt: front view of a  
*skinny* body, white  
background, studio lighting



Prompt: front view of a  
*well-built* body, white  
background, studio lighting



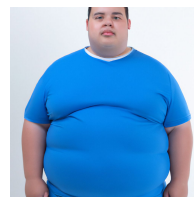
Prompt: front view of a  
*muscular* body, white  
background, studio lighting



Prompt: front view of a  
*chubby* body, white  
background, studio lighting



Prompt: front view of a *fat*  
body, white background,  
studio lighting



Prompt: front view of an  
*overweight* body, white  
background, studio lighting

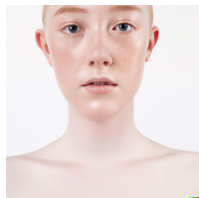


Prompt: front view of an  
*overly obese* body, white  
background, studio lighting

# Skin tone

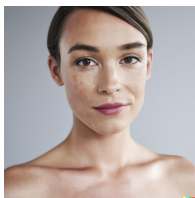


Pale white



Prompt: front view of *pale white* skin tone

Fair



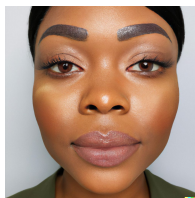
Prompt: front view of *fair* skin tone

Medium



Prompt: front view of *medium* skin tone

Olive



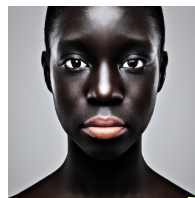
Prompt: front view of *olive* skin tone

Brown



Prompt: front view of *brown* skin tone

Black

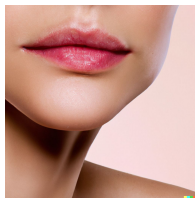


Prompt: front view of *black* skin tone

# Skin

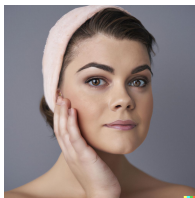


Velvety



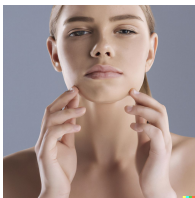
Prompt: front view of *velvety* skin

Silky



Prompt: front view of *silky* skin

Smooth



Prompt: front view of *smooth* skin

Soft



Prompt: front view of *soft* skin

Wrinkled



Prompt: front view of *wrinkled* skin

Very wrinkled



Prompt: front view of *very wrinkled* skin

Crumpled



Prompt: front view of a face with *crumpled* skin

# Hair

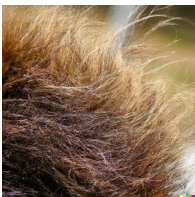


Extremely  
hairy



Prompt: *extremely hairy* head  
Note: long shot is banned  
with hair prompts and only  
men came out

Very hairy



Prompt: *very hairy* head

Hairy



Prompt: *hairy* head

Slightly  
hairy



Prompt: *slightly hairy* head

Bald



Prompt: *bald* head

# Hair (cont.)

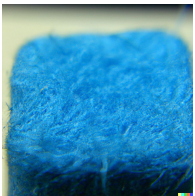


Extremely  
hairy



Prompt: *extremely hairy*  
blue cube

Very hairy



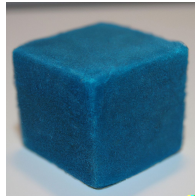
Prompt: *very hairy* blue cube

Hairy



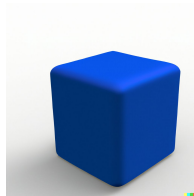
Prompt: *hairy* blue cube

Slightly  
hairy



Prompt: *slightly hairy*  
blue cube

Bald



Prompt: *bald* blue cube



# Mood



Agonized



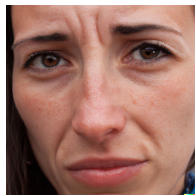
Prompt: Portrait of *an agonized* face, color photography

Very sad



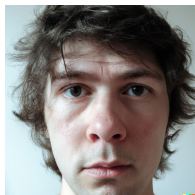
Prompt: Portrait of a *very sad* face, color photography

Sad



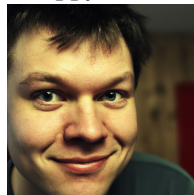
Prompt: Portrait of a *sad* face, color photography

Slightly sad



Prompt: Portrait of a *slightly sad* face, color photography

Slightly happy



Prompt: Portrait of a *slightly happy* face, color photography

Happy



Prompt: Portrait of a *happy* face, color photography

Very happy



Prompt: Portrait of a *very happy* face, color photography

Delighted

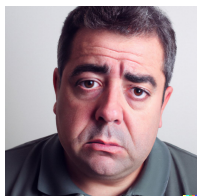


Prompt: Portrait of a *delighted* face, color photography

# Mood (cont.)

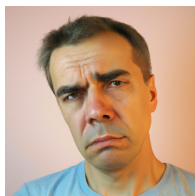


Extremely disappointed



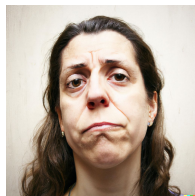
Prompt: Portrait of *an extremely disappointed* face, color photography

Very disappointed



Prompt: Portrait of a *very disappointed* face, color photography

Disappointed



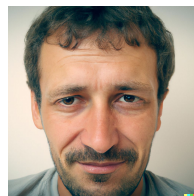
Prompt: Portrait of a *disappointed* face, color photography

Slightly disappointed



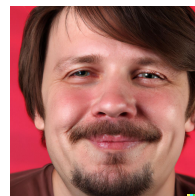
Prompt: Portrait of a *slightly disappointed* face, color photography

Slightly satisfied



Prompt: Portrait of a *slightly satisfied* face, color photography

Satisfied



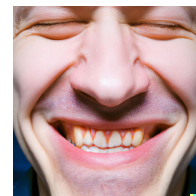
Prompt: Portrait of a *satisfied* face, color photography

Very satisfied



Prompt: Portrait of a *very satisfied* face, color photography

Extremely satisfied



Prompt: Portrait of *an extremely satisfied* face, color photography

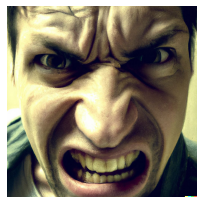
# Mood (cont.)

✗ Midjourney  
✓ Stable Diffusion

Furious      Very angry      Angry      Slightly angry      Slightly calm      Calm      Tranquill



Prompt: Portrait of *a furious* face, color photography



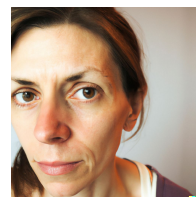
Prompt: Portrait of *a very angry* face, color photography



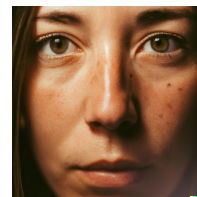
Prompt: Portrait of *a angry* face, color photography



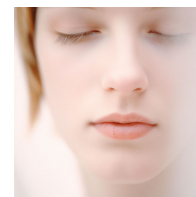
Prompt: Portrait of *a slightly angry* face, color photography



Prompt: Portrait of *a slightly calm* face, color photography



Prompt: Portrait of *a calm* face, color photography



Prompt: Portrait of *a tranquil* face, color photography

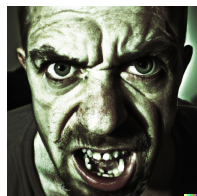
# Mood (cont.)

✗ Midjourney  
✓ Stable Diffusion

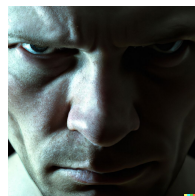
Mortiferous      Aggressive      Hostile      Neutral      Friendly      Cute      Adorable



Prompt: Portrait of *a mortiferous* face, color photography



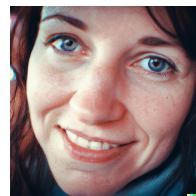
Prompt: Portrait of *a aggressive* face, color photography



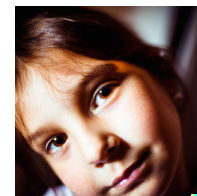
Prompt: Portrait of *a hostile* face, color photography



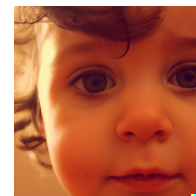
Prompt: Portrait of *a neutral* face, color photography



Prompt: Portrait of *a friendly* face, color photography



Prompt: Portrait of *a cute* face, color photography



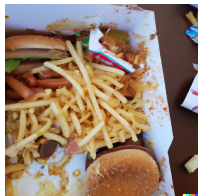
Prompt: Portrait of *a adorable* face, color photography

Note: DALL-E and Stable Diffusion both shows gender bias when generating human expression showing male when it scales towards aggression and female on the opposite spectrum

# Food

✓ Midjourney  
✓ Stable Diffusion

Very  
unhealthy



Prompt: *very unhealthy* food

Unhealthy



Prompt: *unhealthy* food

Healthy



Prompt: *healthy* food

Very healthy



Prompt: *very healthy* food

# Food (cont.)

✓ Midjourney  
✗ Stable Diffusion

Uncooked



Prompt: *uncooked* food

Rare



Prompt: *rare* food

Medium rare



Prompt: *medium rare* food

Well done



Prompt: *well done* food

Overcooked



Prompt: *overcooked* food

# Living stage



Moldy



Prompt: a *moldy* apple,  
highly detailed, white  
background

Very rotten



Prompt: a *very rotten* apple,  
highly detailed, white  
background

Rotten



Prompt: a *rotten* apple,  
highly detailed, white  
background

Half rotten



Prompt: a *half rotten* apple,  
highly detailed, white  
background

Slightly rotten



Prompt: a *slightly rotten*  
apple, highly detailed, white  
background

Fresh

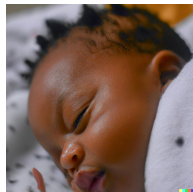


Prompt: a *fresh* apple,  
highly detailed, white  
background

# Living stage (cont.)



Infant



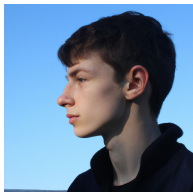
Prompt: an *infant* human

Baby



Prompt: a *baby* human

Young



Prompt: a *young* human

Adult



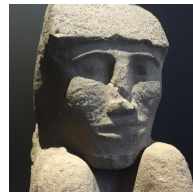
Prompt: a *adult* human

Senior



Prompt: a *senior* human

Ancient



Prompt: an *ancient* human

Fossil



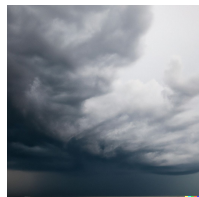
Prompt: a *fossil* human



# Weather

✓ Midjourney  
✓ Stable Diffusion

Stormy



Prompt: *stormy* weather

Thunder



Prompt: *thunder* weather

Pouring



Prompt: *pouring* weather  
outside  
Note: DALL-E shows  
raindrops on the glass mainly

Rainy



Prompt: *rainy* weather  
outside

Foggy



Prompt: *foggy* weather

Cloudy



Prompt: *cloudy* weather  
outside

Sunny



Prompt: *sunny* weather  
outside

# Weather (cont.)

✓ Midjourney  
✓ Stable Diffusion

Freezing



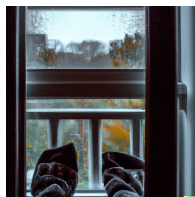
Prompt: *freezing* weather  
outside  
Note: DALL-E shows it on the  
glass

Cold



Prompt: *cold* weather  
outside

Chilly



Prompt: *chilly* weather  
outside

Cool



Prompt: *cool* weather  
outside

Warm



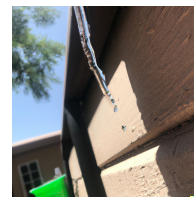
Prompt: *warm* weather  
outside

Hot



Prompt: *hot* weather  
outside

Melting hot



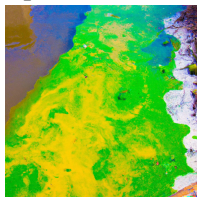
Prompt: *melting* hot  
weather outside  
Note: DALL-E took it  
literally



# Pollution

✓ Midjourney  
✓ Stable Diffusion

Extremely  
polluted



Prompt: *extremely polluted water*

Very polluted



Prompt: *very polluted water*

Medium  
polluted



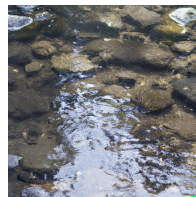
Prompt: *medium polluted water*

Slightly  
polluted



Prompt: *slightly polluted water*

Clean



Prompt: *clean river*

Extremely clean



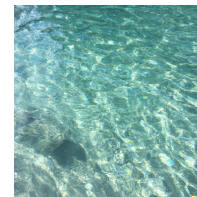
Prompt: *extremely clean river*

Pure



Prompt: *pure river*

Pristine



Prompt: *pristine water*

# Wetness

✓ Midjourney  
✗ Stable Diffusion

Dehydrated



Prompt: *dehydrated soil*

Dry



Prompt: *dry soil*

Unmoistened



Prompt: *unmoistened soil*

Moist



Prompt: *moist soil*

Humid



Prompt: *humid soil*

Wet



Prompt: *wet soil*

# Moon phase

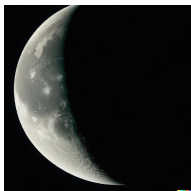
✓ Midjourney  
✓ Stable Diffusion

New



Prompt: nasa picture of  
*new moon*

Waxing  
crescent



Prompt: nasa picture of  
*waxing crescent moon*

First quarter



Prompt: nasa picture of *first*  
*quarter moon*

Waxing  
gibbous



Prompt: nasa picture of  
*waxing gibbous moon*

Full moon



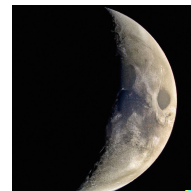
Prompt: nasa picture of  
*full moon*

Waning  
gibbous



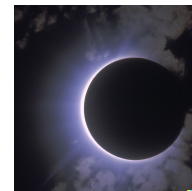
Prompt: nasa picture of  
*waning gibbous moon*

Last quarter



Prompt: nasa picture of  
*Last quarter moon*

Eclipse

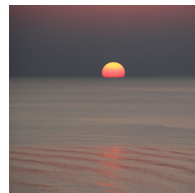


Prompt: nasa picture of  
*eclipse*

# Sun position

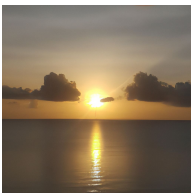
✓ Midjourney  
✓ Stable Diffusion

Sunrise



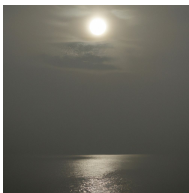
Prompt: *sunset* sun position  
on the sea

Morning



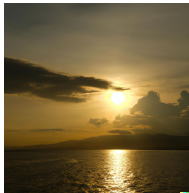
Prompt: *morning* sun  
position on the sea

Noon



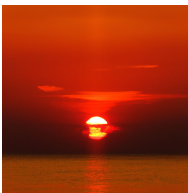
Prompt: *noon* sun position  
on the sea

Afternoon



Prompt: *afternoon* sun  
position on the sea

Sunset



Prompt: *sunset* sun position  
on the sea

# Technology

✓ Midjourney  
✓ Stable Diffusion

Prehistoric

Ancient

Outdated

Old

Modern

Contemporary

Advanced

Futuristic



Prompt: a *prehistoric* tool



Prompt: an *ancient* tool



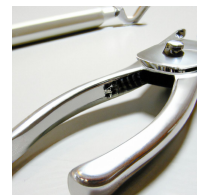
Prompt: an *outdated* tool



Prompt: an *old* tool



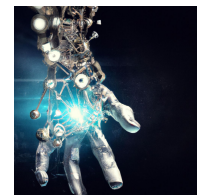
Prompt: a *modern* tool



Prompt: a *contemporary* tool



Prompt: an *advanced* tool



Prompt: a *futuristic* tool

# Technology (cont.)

✓ Midjourney  
✗ Stable Diffusion

Prehistoric

Ancient

Outdated

Old

Modern

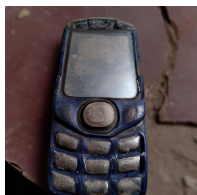
Contemporary

Advanced

Futuristic



Prompt: a mobile phone designed with *prehistoric* technology



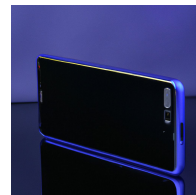
Prompt: a mobile phone designed with *ancient* technology



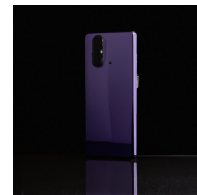
Prompt: a mobile phone designed with *outdated* technology



Prompt: a mobile phone designed with *old* technology



Prompt: a mobile phone designed with *modern* technology, studio photography, front view



Prompt: a mobile phone designed with *contemporary* technology, studio photography, front view



Prompt: a mobile phone designed with *advanced* technology, studio photography, front view



Prompt: a mobile phone designed with *futuristic* technology

# Stage of development

✓ Midjourney  
✓ Stable Diffusion

Under-developed



Prompt: *underdeveloped* area

Early developed



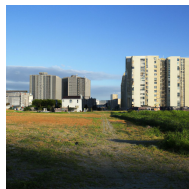
Prompt: *early developed* area

Developing



Prompt: *developing* area

Half-developed



Prompt: *half-developing* area

Late developed



Prompt: *late developed* area

Fully developed



Prompt: *fully developed* area

Highly developed



Prompt: *highly developed* area

Over developed

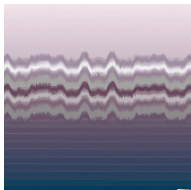


Prompt: *over developed* area

# Sound frequency

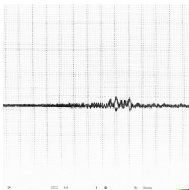
✓ Midjourney  
✓ Stable Diffusion

Muted



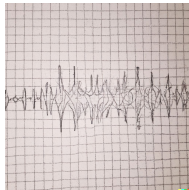
Prompt: *muted* waveform

Very low pitched



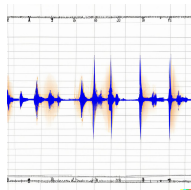
Prompt: *very low pitched* waveform

Low pitched



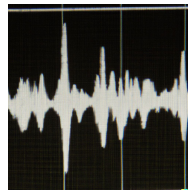
Prompt: *low pitched* waveform

Pleasant



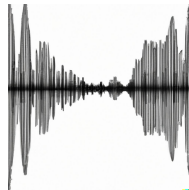
Prompt: *pleasant* waveform

Slightly high pitched



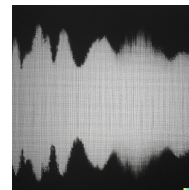
Prompt: *slightly high pitched* waveform

High pitched



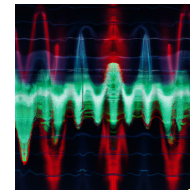
Prompt: *high pitched* waveform

Very high pitched



Prompt: *very high pitched* waveform

Noisy



Prompt: *noisy* waveform



# Build your own semantic fields

This section is to give you a step by step guide to building your own spectrum of semantic fields for your own projects.





# Step 1: Find your word

Find an adjective that you think can add interesting qualitative ideas behind the data you want to express.

*For example I have some information about pollution on a certain area that I want to talk about, in this case the adjective to use will be:*

“polluted”

## Step 2: Antagonize

Then you need to first find the opposite word to the one you have first defined. For doing so we recommend using free webs like [Thesaurus](#).

polluted



clean

## Step 3: Expand

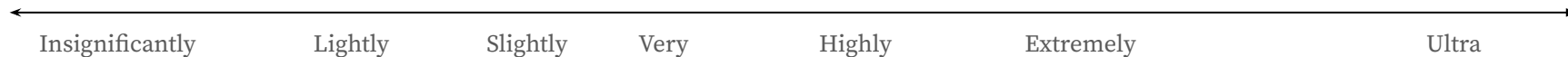
Afterwards you have to explore word past your antonyms:



## Step 4: Define the spectrum

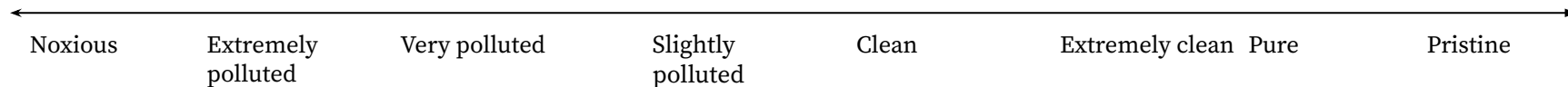
Then you can use some of these quantitative modifiers to build a richer spectrum:

### Quantitative modifiers



You can use these modifiers in both directions, in the one of the original adjective and the one of the opposite:

### Pollution



## Step 4.2: Diversify

And of course you can think about more quantitative modifiers that can add richness and comparative value to your prompt.

---

Radically      Violently      Strongly      Hazardous      Moderate      Fair      Harmless      Pure      Divine

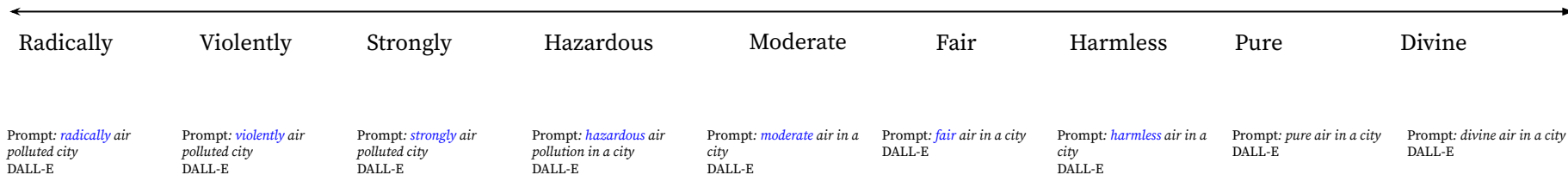


# Step 5: Prompt it

With that you will be ready to write the prompts for each stage of the spectrum.

We recommend giving a bit more context to the description of the prompt so the different images have less variability and it's easier to recognize the quantitative differences in them. For that we recommend defining the environment, such as the background, the kind of shot, pictorial technique and several other specs. You can check our first prompt book for more ideas on that.

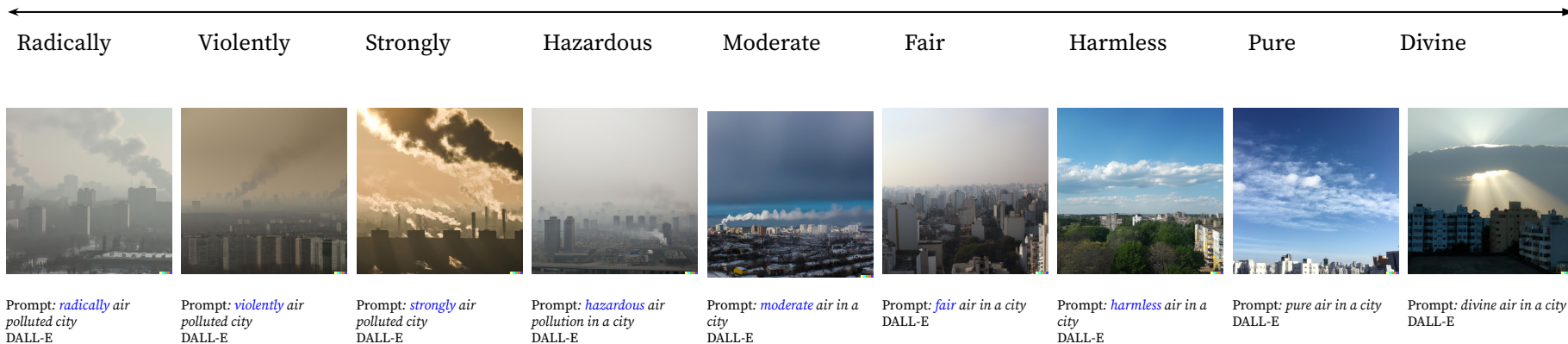
## Pollution



# Step 6: Render

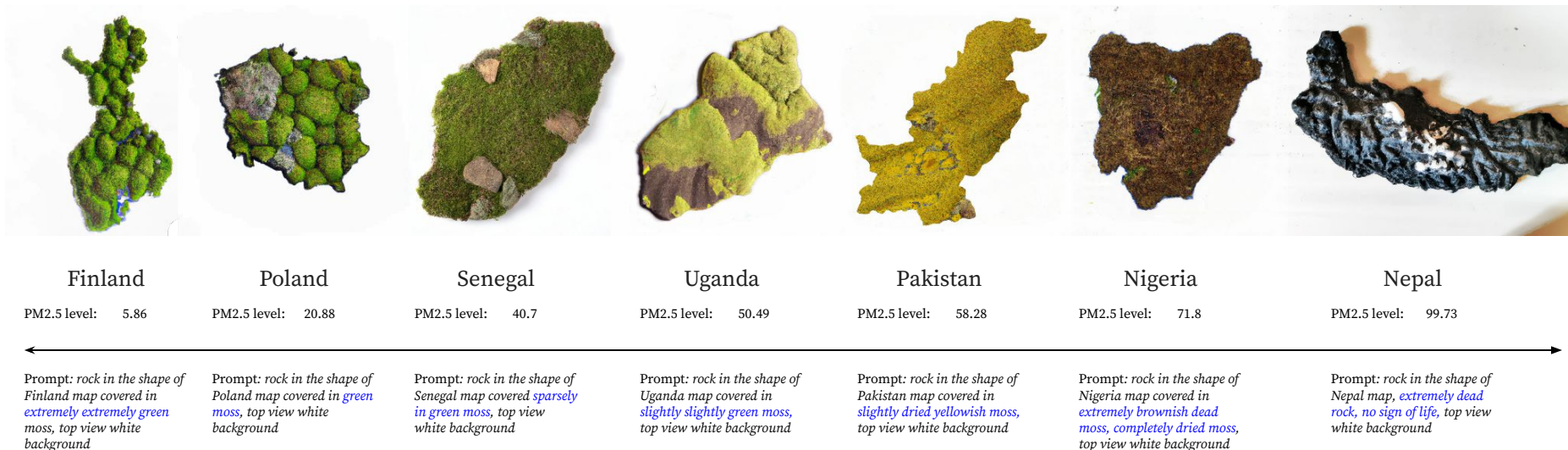
And finally the only thing you need is to render it:

## Pollution



# Step 7: Create you data story

## Air Pollution rank between countries



PM2.5 levels, micrograms per cubic meter of air ( $\mu\text{g}/\text{m}^3$ )(2017)  
higher number means more polluted (scale from 0 to 100)

Source: [Air Pollution across the world](#)

# Higher GDP – less air pollution I

This data visualization shows level of air pollution in different countries. Fine particulate matter (PM2.5) is an air pollutant that is a concern for people's health when levels in air are high. The Gross Domestic Product per capita, or GDP per capita, is a measure of a country's economic output that accounts for its number of people.



## Mali

PM2.5 level: 38.53  
GDP per capita: 2216.77

Prompt: *extremely rusty* coins one on top of another with Mali flag long shot white background

## Tunisia

PM2.5 level: 37.66  
GDP per capita: 9727.5

Prompt: *very rusty* coins one on top of another with Tunisia flag long shot white background

## Thailand

PM2.5 level: 26.26  
GDP per capita: 17.287

Prompt: *rusty* coins one on top of another with Thailand flag long shot white background

## Trinidad & Tobago

PM2.5 level: 24.11  
GDP per capita: 23.728

Prompt: *slightly rusty* coins one on top of another with a flag of Trinidad and Tobago long shot white background

## Hungary

PM2.5 level: 15.93  
GDP per capita: 31.007

Prompt: *slightly shiny* coins one on top of another with Hungary flag long shot white background

## UK

PM2.5 level: 10.47  
GDP per capita: 41.627

Prompt: *shiny* coins one on top of another with British flag long shot white background

## Finland

PM2.5 level: 5.86  
GDP per capita: 47.260

Prompt: *very shiny* coins one on top of another with Finland flag long shot white background

Note: this graph is not the best, since columns of coins are not precise and might be confusing. The flags of countries occupy a lot space and don't need to be shown when we try to visualize air pollution and GDP per capita in each country. Let's try again in the next example.

Source: [Air Pollution across the world](#)

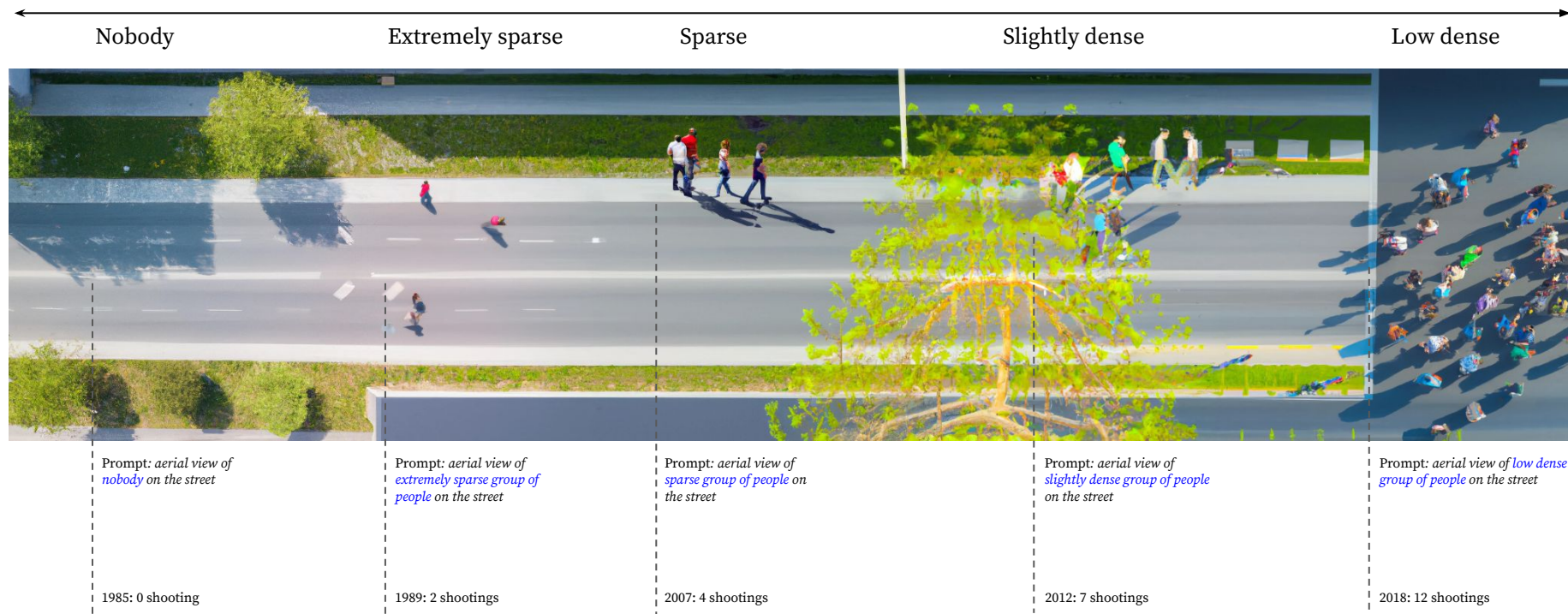
# Higher GDP – less air pollution II

This data visualization shows level of air pollution in different countries. Through a coin which evolves from extremely rusty to very shiny, we show the air pollution, simultaneously, from micro coin to very very huge coin, we show country's GDP per capita level.

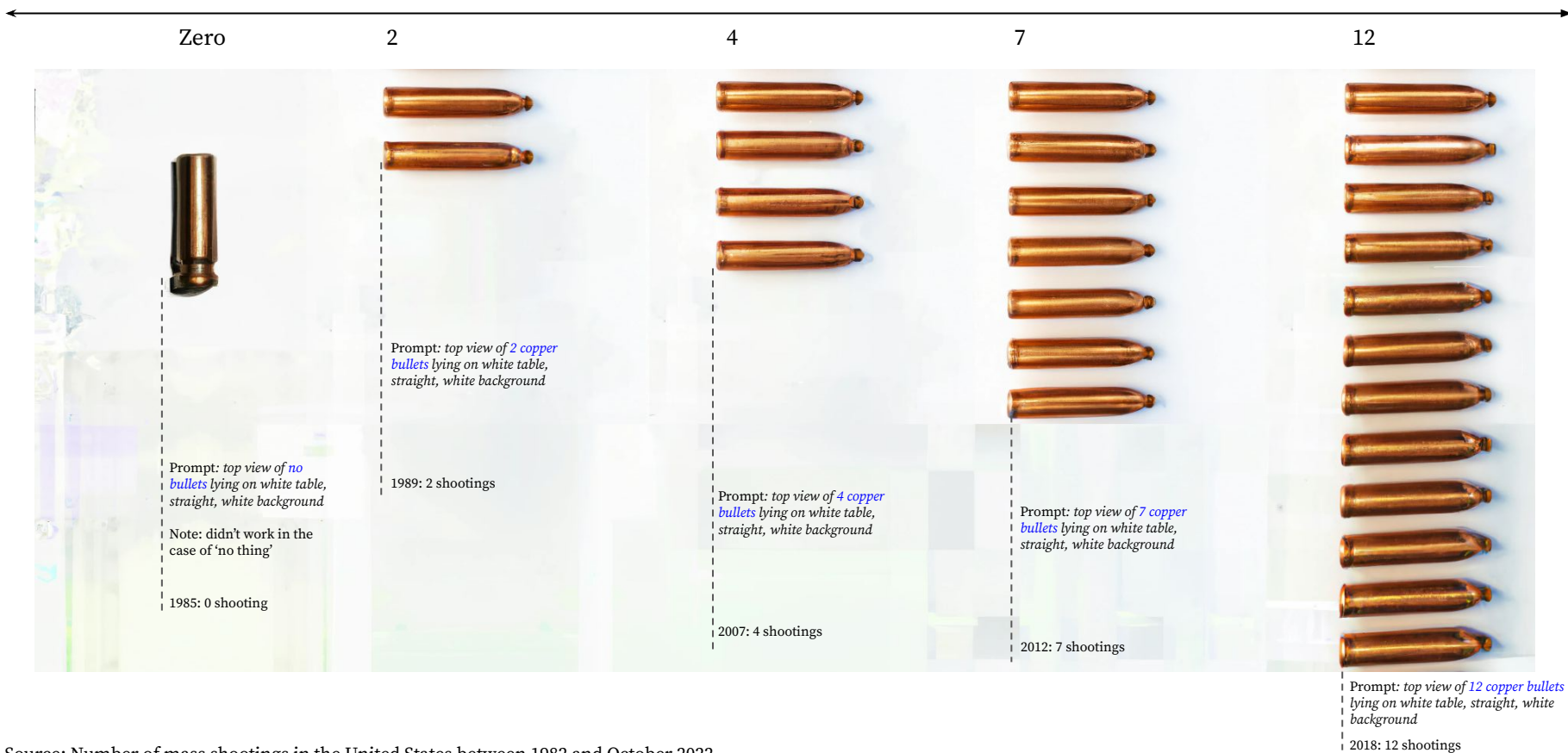




# Mass shootings in the US between 1985 and 2018



# Mass shootings in the US between 1985 and 2018



Source: Number of mass shootings in the United States between 1982 and October 2022

# Global coral coverage over the last decade



Prompt: a tall cement block with colorful corals growing on it, white background, studio photography

Editing and erasing tool was used to generate this graph with bars in different height

Source: Status of Coral Reefs of the World: 2020

# Global coral coverage over the last decade



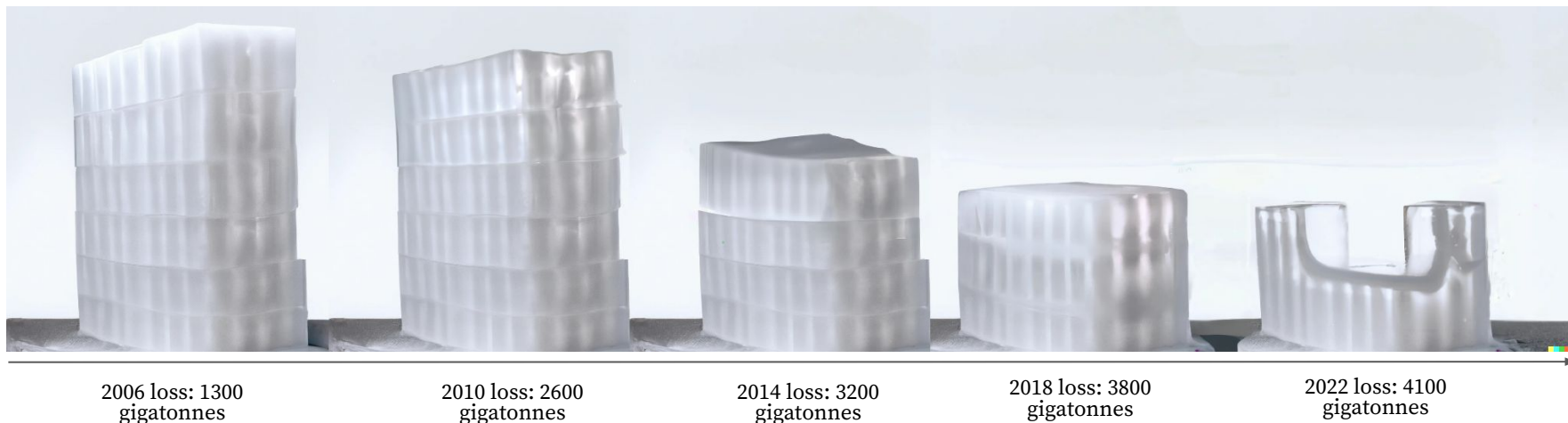
DALL-E image is enhanced with Dream Studio

Prompt: a cement block with colorful corals growing on it, extremely detailed corals, extremely realistic corals, contemporary installation, white background

Source: Status of Coral Reefs of the World: 2020

# Ice melting in Greenland

This data visualization shows a big cube of ice that represents Greenland and through the years it can be seen how much ice loss is happening. Ice melting is shown with a metrical unit gigatonne.



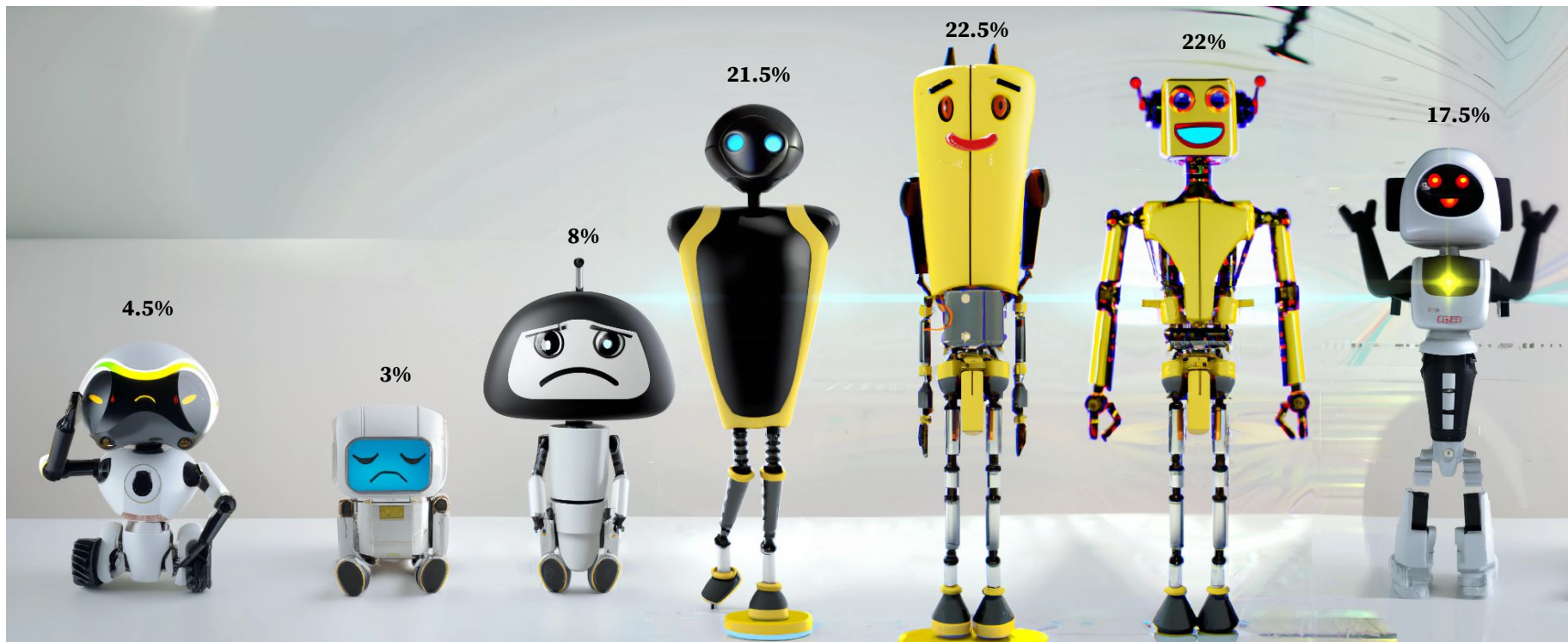
Prompt: a vertical long cube of ice in 6 blocks in a full height on the plain floor, white background, full shot, front view

Editing and erasing tool was used to generate this graph with bars in different height



# Happiness scores at work (scale 1 to 6)

Source: [Feeling at work](#)



Extremely sad, in tears

Prompt: an *extremely short* robot with LED face showing *extremely extremely sad face in tears*, front view, white background, studio photography

Extremely sad

Prompt: an *extremely extremely sad* robot with LED face showing his *extreme sadness, extremely short*, white background, front view, studio photography

Sad

Prompt: a *sad* robot with LED face showing his *sadness*, tall, white background, front view, studio photography

Neutral

Prompt: a *very very tall* robot, with LED face showing a *neutral* expression, white background, front view, studio photography

Slightly happy

Prompt: a *very very tall* robot with LED face showing *slightly happy face*, white background, front view, studio photography

Happy

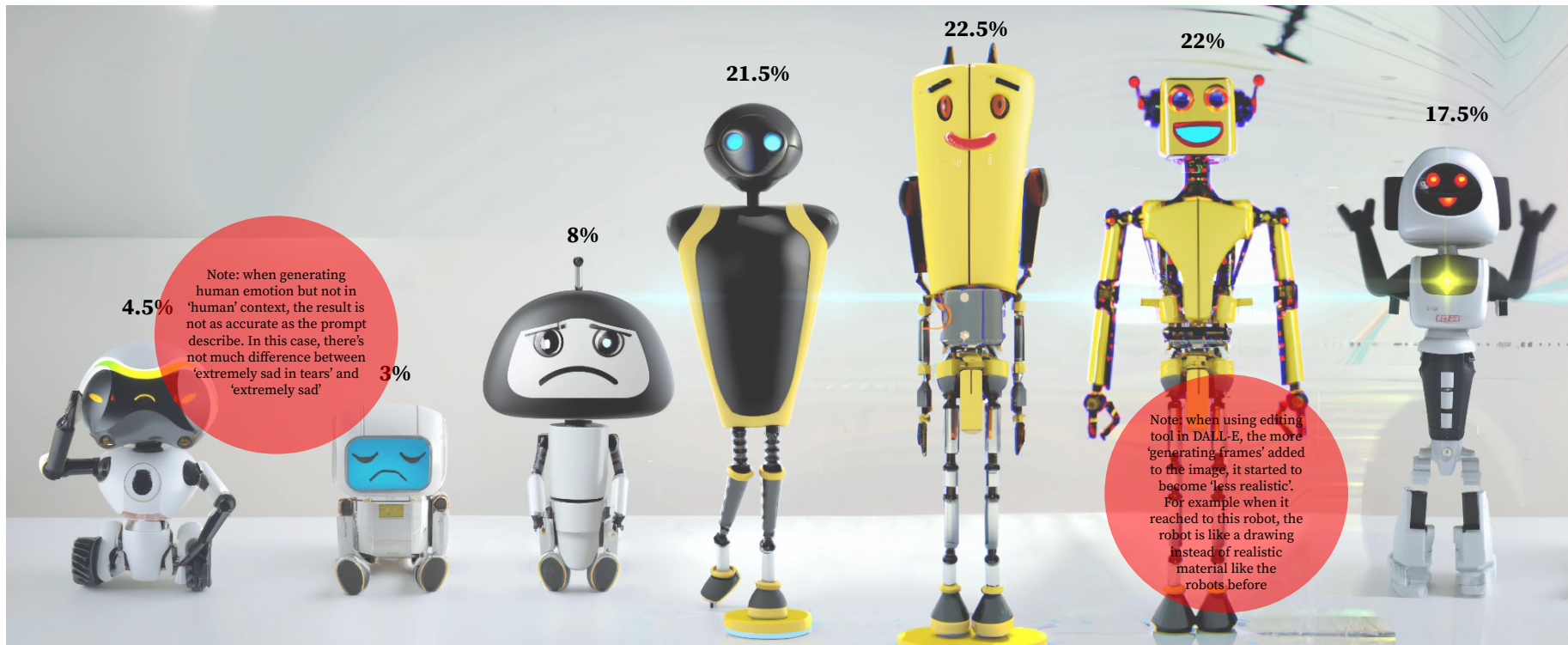
Prompt: a *very very tall* robot with LED face showing *happy face*, white background, front view, studio photography

Extremely happy

Prompt: a *very very tall* robot standing with LCD face showing *extremely extremely happy face*, white background, front view, studio photography

# Happiness scores at work (scale 1 to 6)

Source: [Feeling at work](#)



Extremely sad, in tears

Prompt: an *extremely short* robot with LED face showing *extremely extremely sad face in tears*, front view, white background, studio photography

Extremely sad

Prompt: an *extremely extremely sad* robot with LED face showing his *extreme sadness, extremely short*, white background, front view, studio photography

Sad

Prompt: a *sad* robot with LED face showing his *sadness*, tall, white background, front view, studio photography

Neutral

Prompt: a *very very tall* robot, with LED face showing a *neutral* expression, white background, front view, studio photography

Slightly happy

Prompt: a *very very tall* robot with LED face showing *slightly happy face*, white background, front view, studio photography

Happy

Prompt: a *very very tall* robot with LED face showing *happy face*, white background, front view, studio photography

Extremely happy

Prompt: a *very very tall* robot standing with LCD face showing *extremely extremely happy face*, white background, front view, studio photography



## Conclusions

We hope you like it, actually.... if you are still reading this, it means that you are interested as heck. Well, we hope that this language exploration can be a first step to bridge the gap between the qualitative and the quantitative ways we can express meaning.

Maybe this contribution can help explore new ways to further disseminate valuable information, ideas, poetry and science.

Fingers crossed...



# Want to contribute?

If you want to be part of this book and add new sections with your best quantitative semantic fields, write us a short email with your idea at [ai@domesticstreamers.com](mailto:ai@domesticstreamers.com) and we will reach out to involve you in the next edition of the book.



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Lots of love and data! Bona nit!