

## P(AI)nting Picker

By Karston Chase

### **ABSTRACT**

Do you have a room with boring, blank walls?

Have no fear, P(AI)nt Picker is here!

 The idea is for users to answer questions about their homes and the Al would find or create images/paintings that best accentuate the space.



### WHAT WOULD THE USER INPUT?



#### **BUILDING COLORS**

Paint colors, wallpapers, ceiling and floor colors.



#### **ACCENT COLORS**

Any out of place or additional accent colors. This could be things like pillows or rugs.



#### **LIGHTING TYPES**

Types of lighting present in room such as artificial or natural lighting.



#### **FURNITURE COLORS**

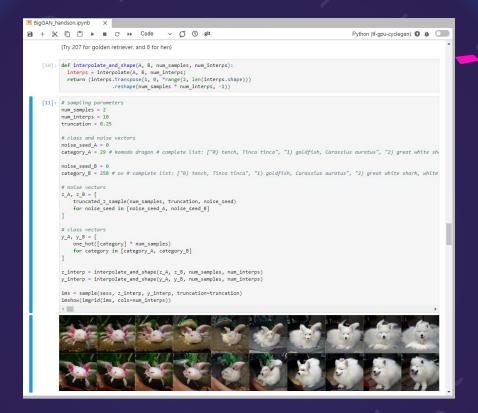
Colors of chairs, couches, tables, etc.



# HOW WOULD > THIS WORK?

- 1. The user-inputted answers would be translated into color categories. (Certain colors would be matched with others.)
- 2. Then BigGAN can pull these categories and create images that correctly match the given palette.

Red	Orange	Yellow	Green	Blue	Purple	Black	Brown	Gray	White	Pink
Kite #21	Goldfish #1	European Fire S	Bullfrog #30	Blue Jay #17	Jellyfish #107	Black Widow #7	Ostrich #9	Great White Sha	Sea Snake #65	Axolotl #29
Kingsnake #56	Chicken #7	Macaw #88	Common Iguana	Peacock #84		Black Swan #10	Bald Eagle #22	Stingray #6	Sulphur-Crested	Cockatoo #89
Macaw #88	Robin #15	Bee Eater #92	American Cham-	Macaw #88		King Penguin #1	Loggerhead Turi	Chickadee #19	Jellyfish #107	Jellyfish #107
King Crab #121	Gila Monster #4	King Penguin #1	African Crocodile	Bee Eater #92		Killer Whale #14	Diamondback R	Sea Lion #150	Chambered Nau	Sea Anemone #
	Jellyfish #107	Golden Retrieve	Vine Snake #59	Hummingbird #9	4	Beagle #162	Platypus #103	Koala #105	White Stork #12	Flamingo #130
	Sea Anemone #	Labrador Retrive	Bee Eater #92	Jellyfish #107		Labrador Retrive	Wombat #106	Eskimo Dog #24	King Penguin #1	45
	Chambered Nau	tilus #117	Hummingbird #9	4		Cocker Spaniel	American Lobste	er #122	Killer Whale #14	8
	Red Fox #277					German Shephe	Sea Lion #150		Beagle #162	
						Eskimo Dog #24	Beagle #162		Eskimo Dog #24	8
							Labrador Retrive	er #208	Samoyed #258	
							Cocker Spaniel	#219		
							German Shephe	rd #235		



#### **BIGGAN SAMPLE IMAGES**

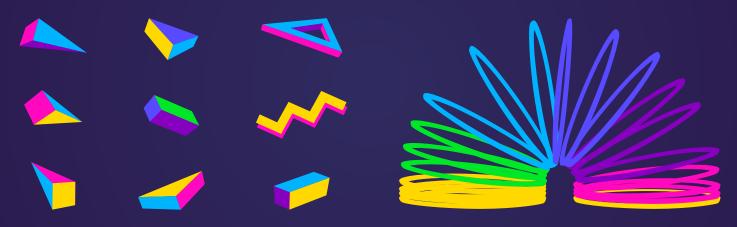
# HOW COULD THIS BE APPLIED FURTHER?

- Further categorization or even some sort of code that could categorize data for you would improve data diversity and go beyond the animal dataset.
- An implication of StyleGAN applied to the generated images could also be used to customize images to a preferred style or even to better accent the room palette.





BigGAN will create an image that brings out the best of your interior space!



GAN you believe finding artwork could be so easy?

