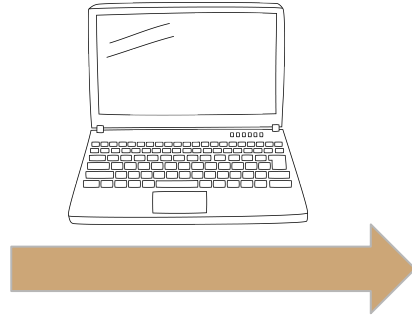




Image Recognition & Visual Arts

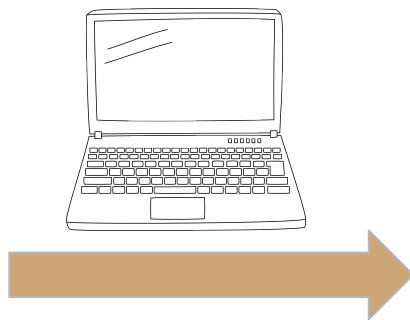
Ada Zhao & Michelle Gallero





Dog

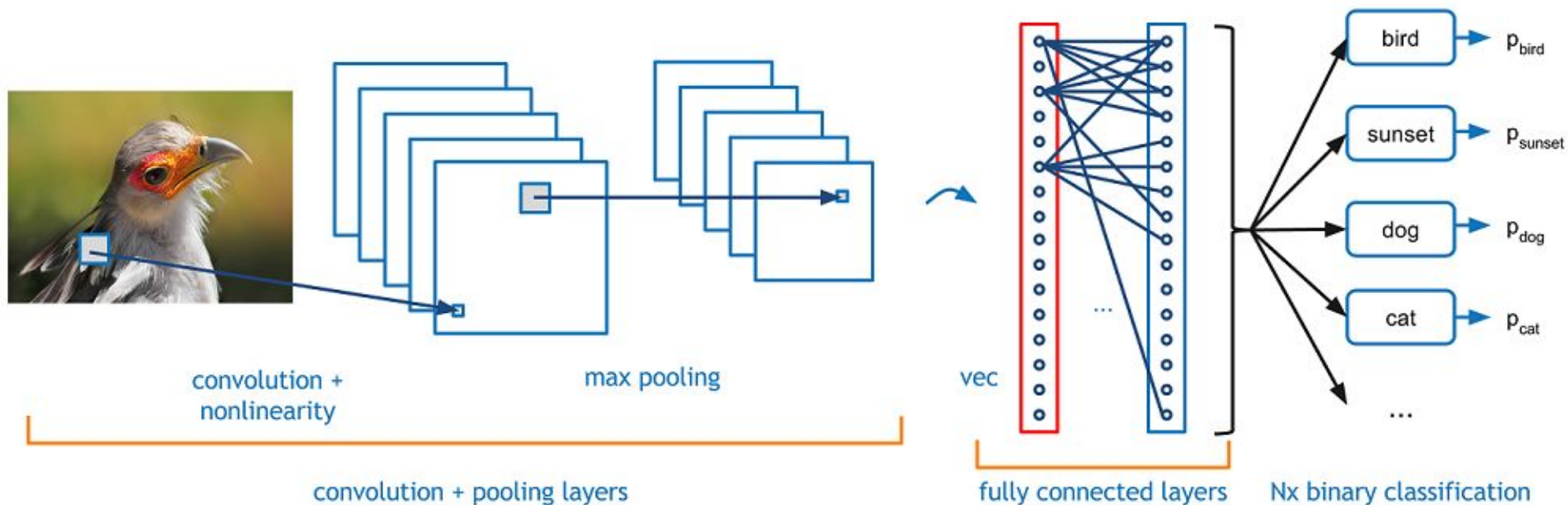
98.63%



Dog

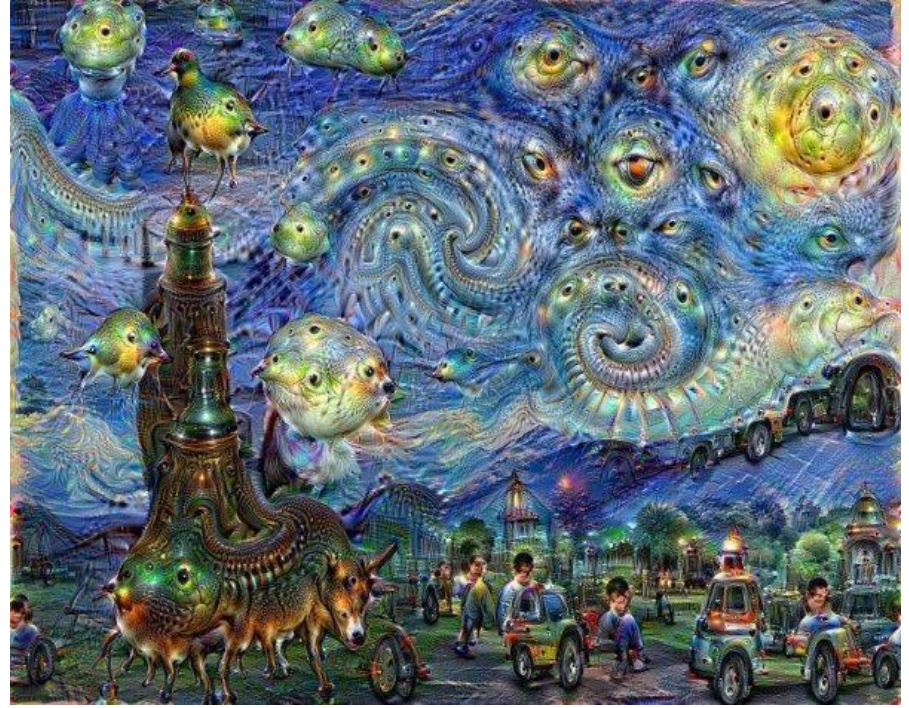
83.27%

Convolutional Neural Network(CNN)



[Link](#)

Deep Dream







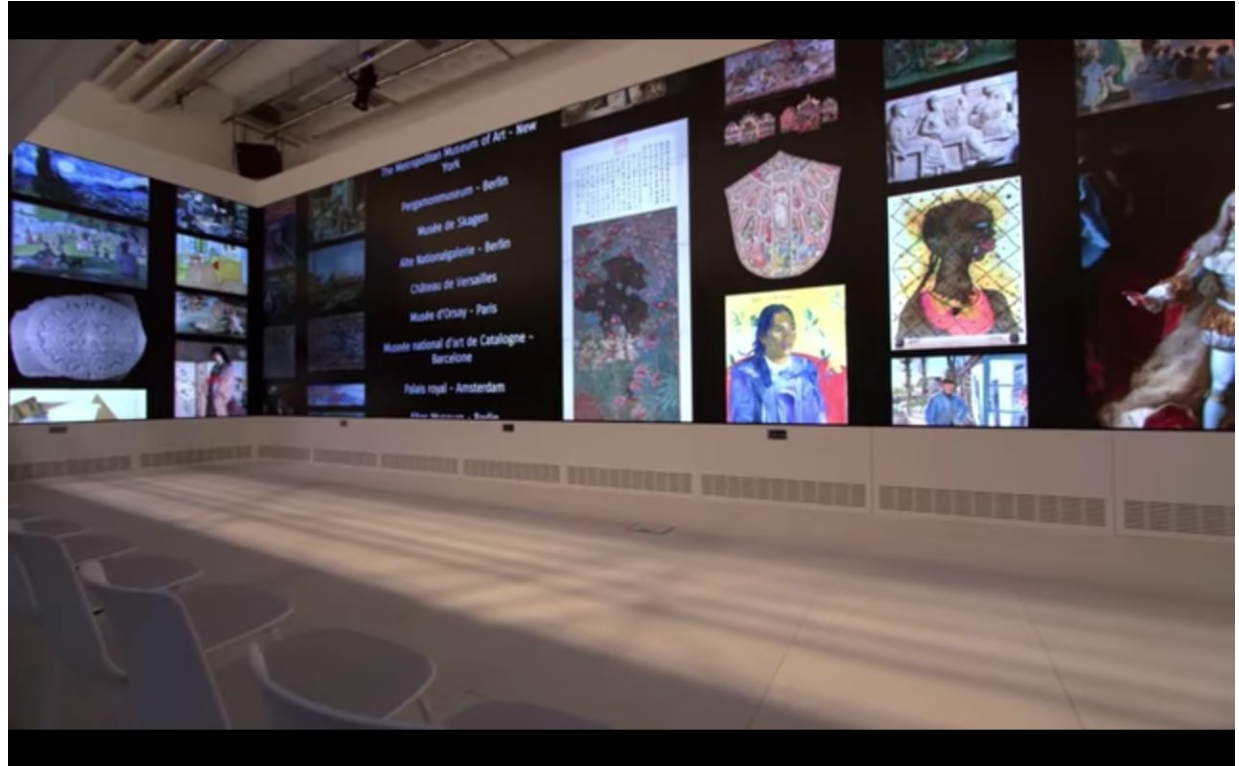
Applications in Visual Arts



Google Arts & Culture Experiments

A place for creative coders, engineers and artists to collaborate and apply Machine Learning (and Google's search algorithms) to Art & Culture experiments at The Lab in Paris.

- OVER 1000 MUSEUMS & COLLECTIONS
- 7 MILLION ARTIFACTS IN DATABASE
- ACCESSIBLE TO EVERYONE



[Google Art & Culture Experiments](#)

TAG

Could
computers
help identify
artworks?

*'Tag' uses neural
networks that
automatically applies
text labels to image
pixels for picture
recognition. Search
for things that are in
the picture.*

Google Arts & Culture | Experiments | TAGS

muscle (5092) water (5074) dress (5066) majorelle blue (5060)
hand (4826) bronze sculpture (4807) chest (4770) eyebrow
symmetry (4585) footwear (4568) arch (4565) turquoise (4558)
bowl (4447) city (4394) cobalt blue (4332) orange (4256) fashic
flooring (4232) close-up (4109) mouth (4095) urn (4075) fun (4015)
religion (3973) victorian fashion (3946) medieval architect
atmospheric phenomenon (3923) museum (3897) fiction (3814) flower (3785) transport (3785)
teal (3770) platter (3651) graphic design (3586) middle ages (3582) beard (3536) neck (3518)
boat (3485) monument (3482) girl (3438) rug (3355) maroon (3332) ceiling (3283)

dog

- Dog 765
- Ancient dog breeds 555 (4917)
- Dog breed 318
- Hunting dog 189
- Companion dog 22
- Guard dog 19 (4462)
- Rare breed (dog) 18
- Dog toy 15 (4236)
- Sled dog 9
- Street dog 8 (3982)
- Dog collar 8
- Toy dog 7
- Dog walking 7
- French bulldog 6

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T-SNE MAP

Artworks mapped using
Machine Learning





T-SNE MAP

Portrait Matcher

by Jonathan Blanchet, Cyril Diagne,
Béatrice Lartigue - Lab212



<http://lab212.org/Portrait-Matcher>



Artist in Residence: Mario Klingemann



<https://www.flickr.com/photos/quasimondo/>
<https://www.youtube.com/watch?v=1v1rsAM3Kul&feature=youtu.be>





Q starry nights



IMAGE TO IMAGE TRANSLATION

Image to Image Translation using 2 neural networks (ex: generative adversarial networks), where you give it an input for a style and the output would apply that style to another image.

- Pix2pix
- CycleGAN
- Deep Photo Style Transfer
- Neural Face

