HOW / Revisit Support-Vector Theory

III

HOW / Novelty Search

How: HOLES
→ Need a way to perturb data set
→ Drivers ⇒ Space
→ Turn a way to juggle spaces.

BLUE SKY / Don't establish the solution before stating & understanding the problem.

IIIII

HOLES IN THE LATENT SPACE (3)

Search Latent Space for Points with MAX-Distance from Examples → look at them

After training a generator, it just responds to a stimuli. We need reflection to measure if the response was suitable / valuable / novel / surprising.

Interpretability

META SPACE

This reminds me of a literal brain, because neurons ultimately connect in a multidimensional way

WHY?
Generating from the data is boring

HOW
Transfer learning from a generic space to a specific one.

How
Train another model to transform between latent space (point) and interpretable features (ie.. 1

How
Train d generator t. fake training

Are there transformations between latent space for implementing interpretable latent space? !!

• Are the holes dark matter?
Is the absence actually something we just don't understand?

How
GANs suffer mode collapse

VAEs and flow nets to have better diversity + model the training data more broadly

YOU MAY JUST HAVE TO DO THIS TO DO 2 (NEXT!!)

Crowd Sourced Latent Space Exploration/Breeding

HOW

QUICK WIN
"HERE BE DRAGONS"
STAY CLOSE TO CLUSTERS
FROM THE TRAINED DATA

Let google "solve" it.

HOW