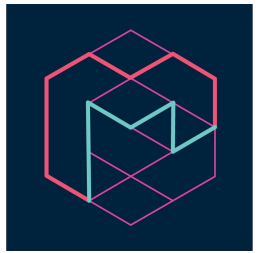
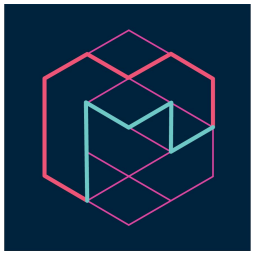
Project magenta



Answering the questions

Victor ADASCALITEI

Project  magenta

Answering the questions

Google Brain Team

Victor ADASCALITEI

The questions

The questions

“Can we use machine learning to create compelling art and music?”

[1]

The questions

“Can we use machine learning to create compelling art and music?”

*“If so, **how**?”*

[1]

The questions

“Can we use machine learning to create compelling art and music?”

“If so, how?”

*“If not, **why not**?”*

[1]

The goals

The goals

“To advance the state-of-the art in music, video, image and text generation”

[1]

The goals

“To advance the state-of-the art in music, video, image and text generation”

“To build a community of artists, coders, and machine learning researchers”

[1]

The challenges

The challenges

How to generate?

The challenges

How to generate? GANs

The challenges

How to generate? GANs

How to pay attention?

The challenges

How to generate? GANs

How to pay attention? LSTMs

The challenges

How to generate? GANs

How to pay attention? LSTMs

How to surprise?

The challenges

How to generate? GANs

How to pay attention? LSTMs

How to surprise? Modelling

The challenges

How to generate? GANs

How to pay attention? LSTMs

How to surprise? Modelling

How to evaluate?

The challenges

How to generate? GANs

How to pay attention? LSTMs

How to surprise? Modelling

How to evaluate? The artists

The challenges

How to generate? GANs

How to pay attention? LSTMs

How to surprise? Modelling

How to evaluate? The artists

The projects

The projects

Image stylization

NSyth - Neural Network Audio Synthesis

Sketch RNN

Performance RNN

Performance RNN DIY training

Link

Sources

[1] “Magenta site” -- https://magenta.tensorflow.org/

[2] “Magenta Demos Github Jupyter Notebooks” -- https://github.com/tensorflow/magenta-demos/tree/master/jupyter-notebooks