

A massive new dataset for understanding art

November 4 2022



Example of WikiArtVectors retrieving similar art works to Picasso's 'The old blind guitarist.' Left: similar artworks by style. Right: similar artworks by color. Credit: Desikan, Shimao, and Miton, 2022

We've all seen art made from data, but what about data from art?

In a feature paper in *Entropy*, Bhargav Srinivasa Desikan (École Polytechnique Fédérale de Lausanne), Hajime Shimao (McGill University, former SFI Postdoctoral Fellow), and SFI Complexity



Postdoctoral Fellow Helena Miton released a novel dataset for indexing, searching, retrieving, organizing, and analyzing 68,094 works of art by more than 1,600 historically significant artists.

Using state-of-the-art machine learning, the authors were able to extract both style representations and color distributions, which can be used to query stylistic periods for an <u>artist</u> or a movement (e.g., Picasso's "blue" phase).

Their <u>dataset</u>, WikiArtVectors, aims to make computational data approaches available to art historians and cultural analysts, to help discover and understand patterns of cultural evolution.

More information: Bhargav Srinivasa Desikan et al, WikiArtVectors: Style and Color Representations of Artworks for Cultural Analysis via Information Theoretic Measures, *Entropy* (2022). DOI: 10.3390/e24091175

Provided by Santa Fe Institute

Citation: A massive new dataset for understanding art (2022, November 4) retrieved 27 April 2024 from https://techxplore.com/news/2022-11-massive-dataset-art.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.