

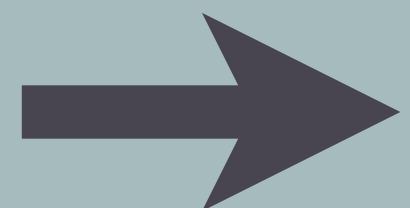
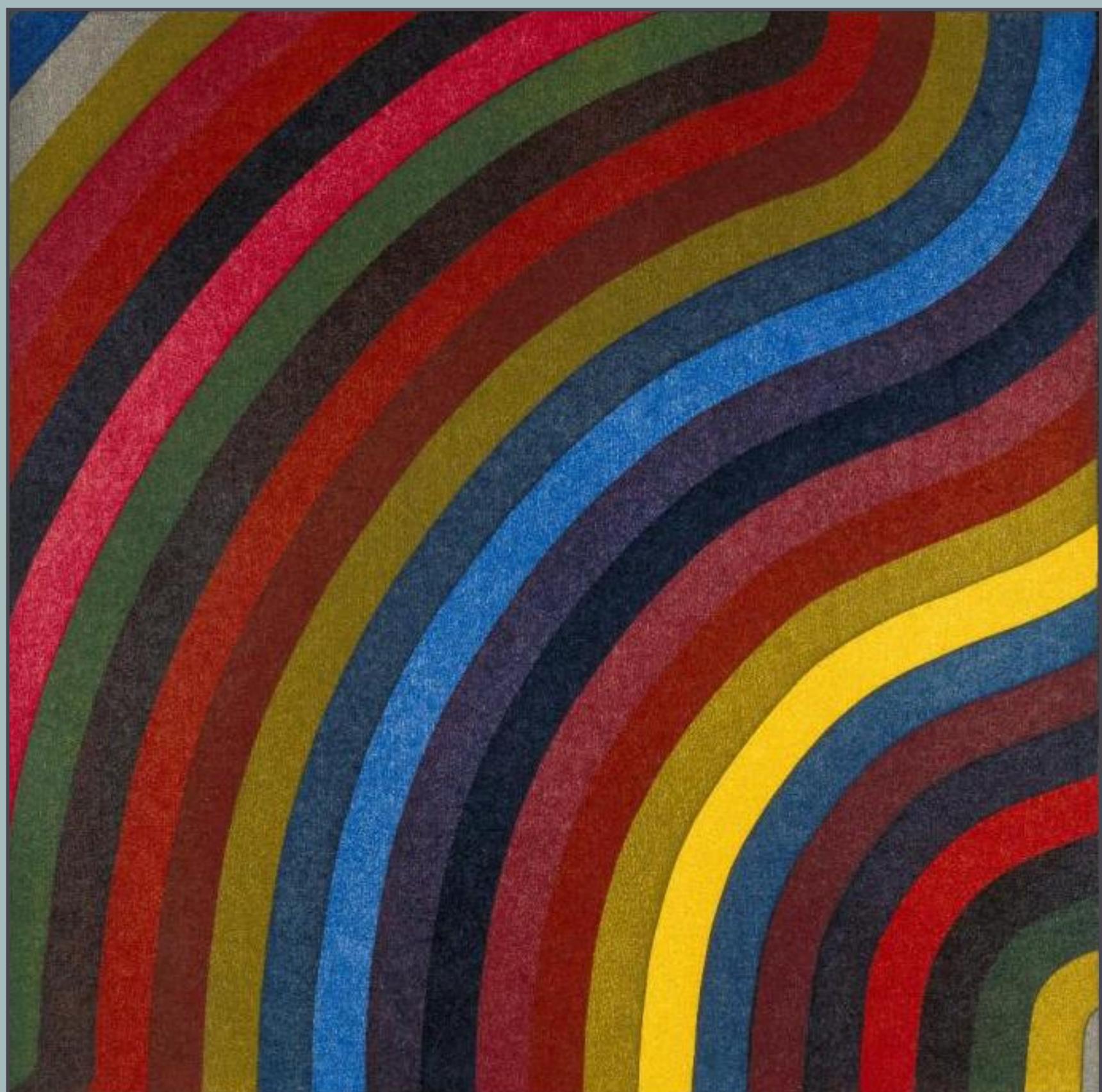
AUTOENCODING EDWARD HOPPER

Using deep learning to recommend art

Larry Finer





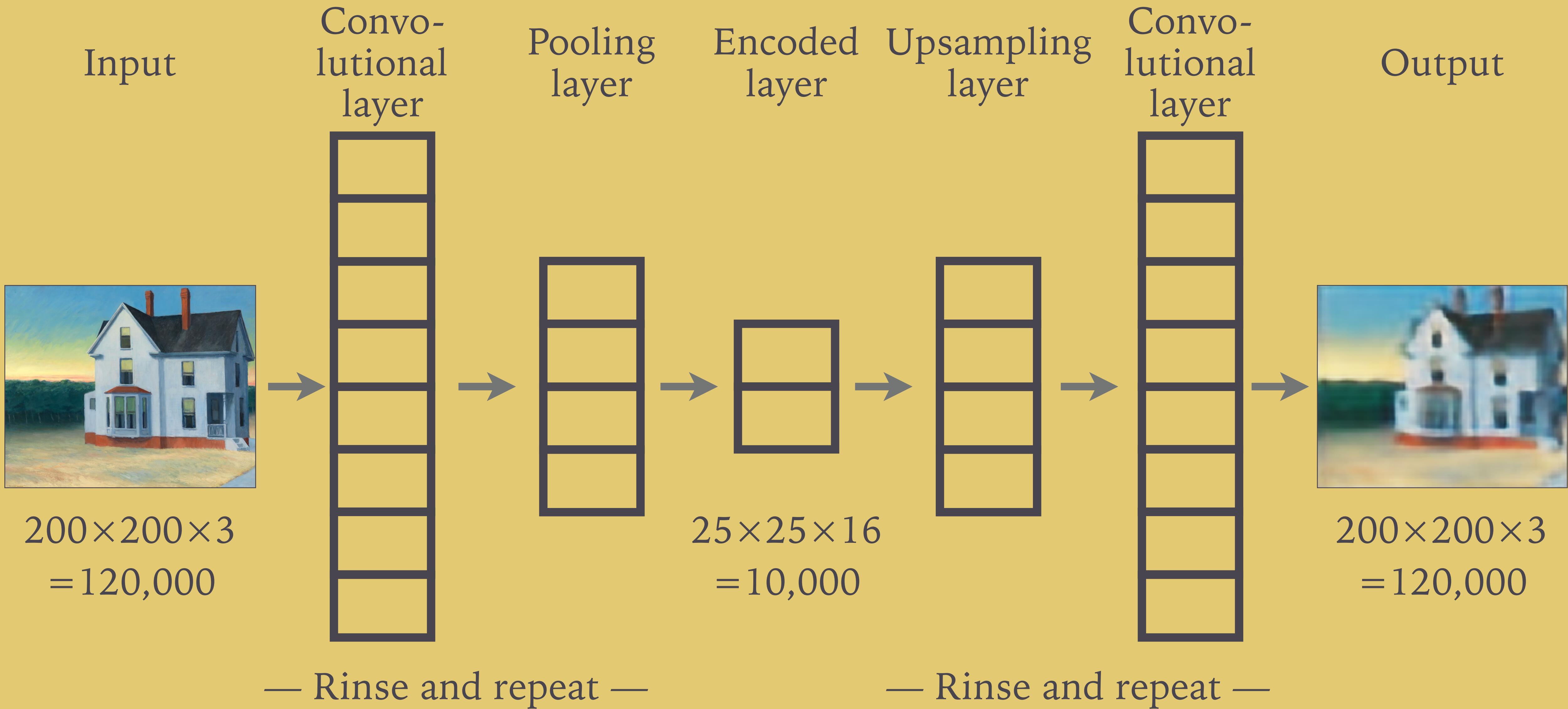


Sol LeWitt
Two Centimeter Wavy Bands in Colors, 1996



Victor Delfín
Baby Condor II, 1979

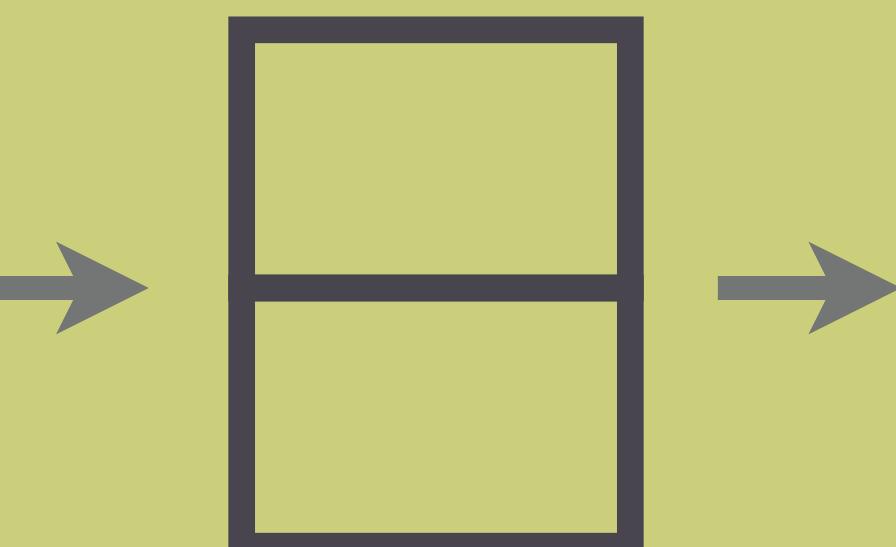
Convolutional neural network autoencoder



Encoding the corpus into feature tensors



Encoded layer



Finding the best match

010
100

? =

A collage of various artworks featuring binary code patterns. The artworks include a painting of a woman in a white dress, a comic strip with a speech bubble, a landscape with a red building, a portrait of a man with a beard, a painting of a woman's face, and a painting of a landscape with a bridge. The binary code is represented by large white numbers on a dark background, with some numbers having a green and blue striped pattern. The artwork is set against a light blue background.

Finding the best match



GUGGENHEIM
MOMA

WHITNEY
Artspace



After comparing 1,000 images...



Edward Hopper
Cape Cod Sunset, 1934

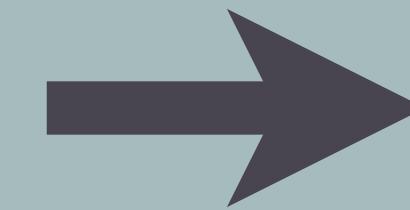


Ken Price
Arctic, 1998

After comparing 25,000 images...



Edward Hopper
Cape Cod Sunset, 1934

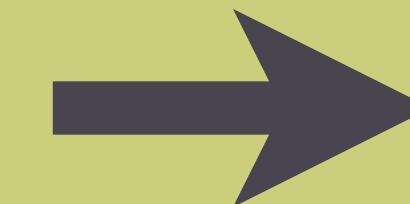


Walker Evans
Post Office, Sprott, Alabama, 1936

After comparing 117,000 images...



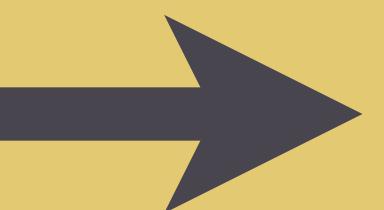
Edward Hopper
Cape Cod Sunset, 1934



Edward Redfield
Landscape, 1930



Charles Hinman
Before the Letter, 1973



Chryssa
Untitled (from Gates to Times Square), 1978



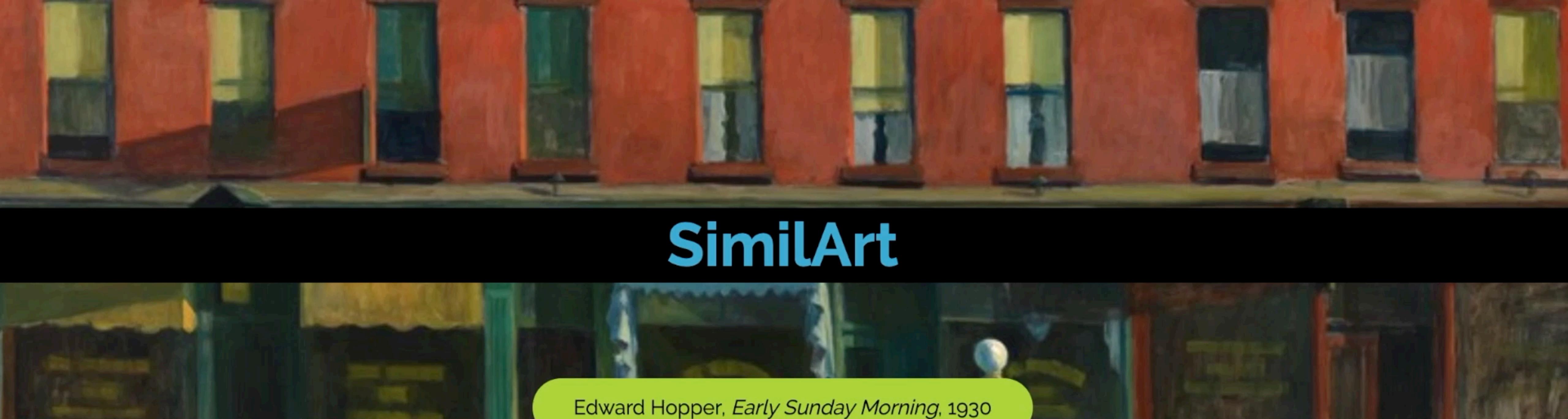
Easton Pribble
*Maine Granite
Ledges*, 1996



Brice Marden
*D'après la
Marquise de
la Solana*, 1969



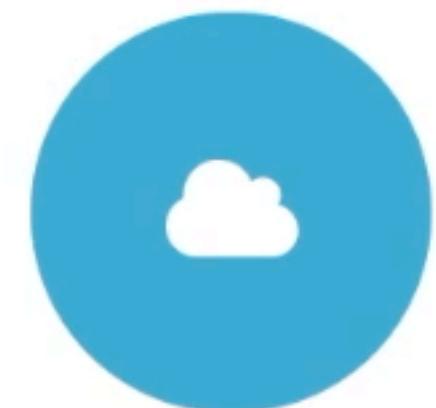
Francisco Goya
La Marquise de la Solana, 1795



SimilArt

Edward Hopper, *Early Sunday Morning*, 1930

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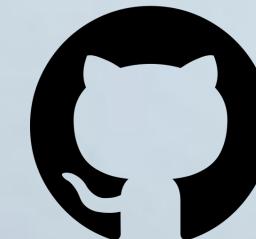
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