SEMANA 2 - APRESENTAÇÃO SCC0233

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INÍCIO

ARTISTAS

Campos Nacionalidades

Séculos

Estilos Géneros

Média

Movimentos artísticos

Escolas e grupos Géneros

Instituições de arte

OBRAS DE ARTE

Curta-metragem

COMPRAR Reproduções

CURTA-METRAGEM MOVO

DATA SET

https://www.wikiart.org

Baixamos um dataset major do monet.

300 -> 1193 imagens

Podemos no futuro tentar adaptar o trabalho para outros artistas.

Artistas / Modernismo / Tarsila do Amaral / Todas as obras de arte

Tarsila do Amaral: Lista de trabalhos - Todas as obras de arte por data 1→10

Lista de trabalhos

Estilos

Períodos

Géneros

Média

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Blue Hat Tarsila do Amaral · 1922



Retrato de Oswald de Andrade

Tarsila do Amaral • 1922



A Negra



Tarsila do Amaral • 1924



Carnaval em Madureira Tarsila do Amaral . 1924













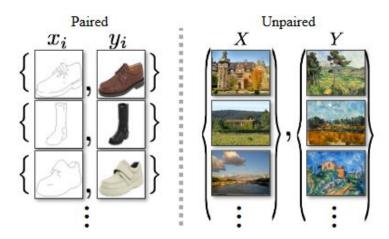
Tarsila do Amaral · 1925



Cycle GAN - Diferenciais

https://arxiv.org/pdf/1703.10593v7.pdf

Permite um treinamento muito mais fácil pelo conjunto não precisar ser pareado.



Unpaired Image-to-Image Translation using Cycle-Consistent Adversarial Networks

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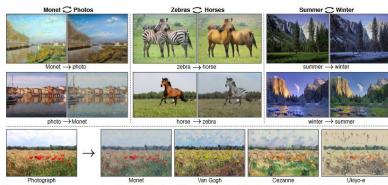


Figure 1: Given any two unordered image collections X and Y, our algorithm learns to automatically "translate" an image from one into the other and vice versa: (left) Monet paintings and landscape photos from Flickr; (center) zebras and horses from ImageNet; (right) summer and winter Yosemite photos from Flickr. Example application (bottom): using a collection of paintings of famous artists, our method learns to render natural photographs into the respective styles.

Abstract

2020

Aug

CS.

Image-to-image translation is a class of vision and graphics problems where the goal is to learn the mapping between an input image and an output image using a training set of aligned image pairs. However, for many tasks, paired training data will not be available. We present an approach for learning to translate an image from a source domain X to a tareet domain Y in the absence of paired

1. Introduction

What did Claude Monet see as he placed his easel by the bank of the Seine near Argenteuil on a lovely spring day in 1873 (Figure 1, top-left)? A color photograph, had it in invented, may have documented a crisp blue sky and a glassy river reflecting it. Monet conveyed his impression of this same scene through wispy brush strokes and a bright

Cycle consistency loss

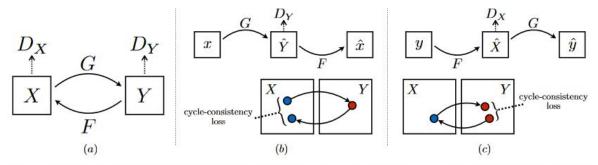


Figure 3: (a) Our model contains two mapping functions $G: X \to Y$ and $F: Y \to X$, and associated adversarial discriminators D_Y and D_X . D_Y encourages G to translate X into outputs indistinguishable from domain Y, and vice versa for D_X and F. To further regularize the mappings, we introduce two *cycle consistency losses* that capture the intuition that if we translate from one domain to the other and back again we should arrive at where we started: (b) forward cycle-consistency loss: $x \to G(x) \to F(G(x)) \approx x$, and (c) backward cycle-consistency loss: $y \to F(y) \to G(F(y)) \approx y$

$$\mathcal{L}(G, F, D_X, D_Y) = \mathcal{L}_{GAN}(G, D_Y, X, Y) + \mathcal{L}_{GAN}(F, D_X, Y, X) + \lambda \mathcal{L}_{cyc}(G, F),$$

Forward Cycle-Consistency

