

# MixNMatch: Multifactor Disentanglement and Encoding for Conditional Image Generation

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# Real Images



Background



Shape



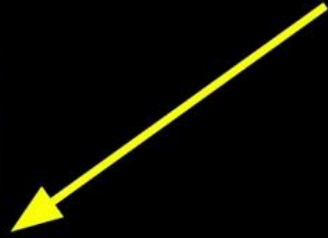
Texture



Pose



Generated Image



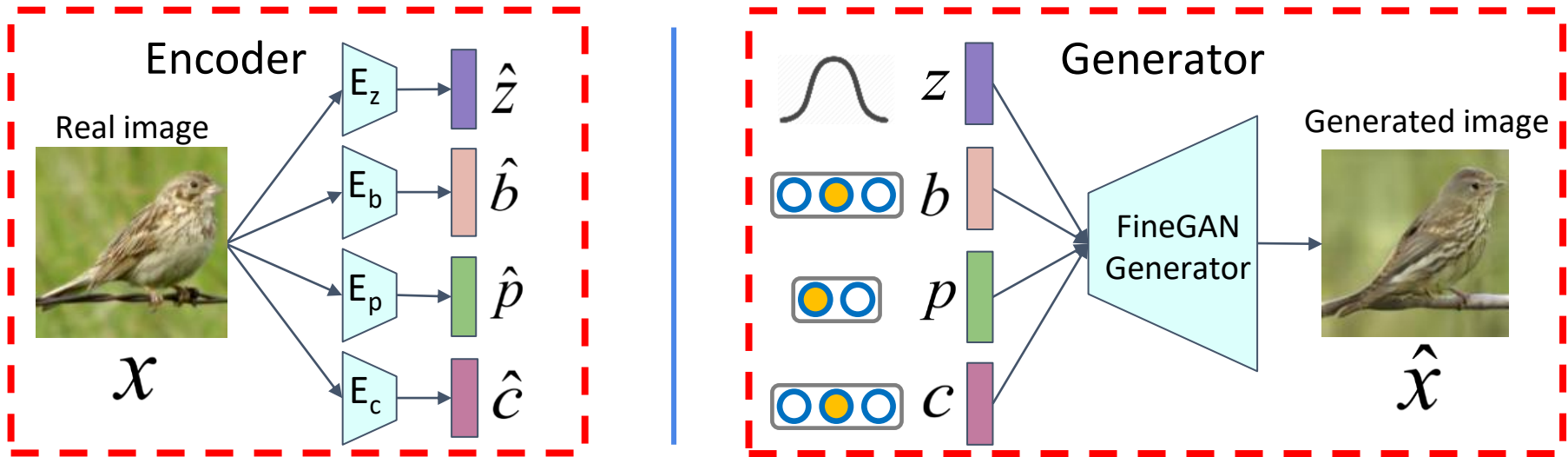
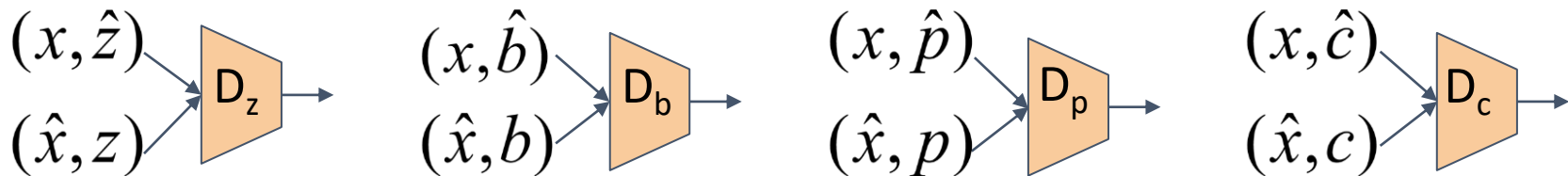


Image-code *paired* distributions need to be matched



Adversarial loss used to match *paired* distributions

# Cartoon/Sketch $\rightarrow$ Image

shape+pose



background



texture



generation



# Animating objects in an image

background,  
shape,  
texture



pose

# Github Repo

Yuheng-Li / MixNMatch

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Pytorch implementation of MixNMatch

gans pytorch disentangled-representations fine-grained image-generation image-manipulation deep-learning

52 commits 1 branch 0 packages 0 releases 3 contributors

Branch: master New pull request Find file Clone or download

Yuheng-Li Update README.md Latest commit f52ed9e on Mar 29

code	fix second stage trialing bug	3 months ago
files	code added	3 months ago
models	add model and output	3 months ago
output	add model and output	3 months ago
README.md	Update README.md	last month

README.md

## MixNMatch: Multifactor Disentanglement and Encoding for Conditional Image Generation

[Paper]

Yuheng Li, Krishna Kumar Singh, Utkarsh Ojha, Yong Jae Lee  
UC Davis  
in CVPR, 2020



<https://github.com/Yuheng-Li/MixNMatch>