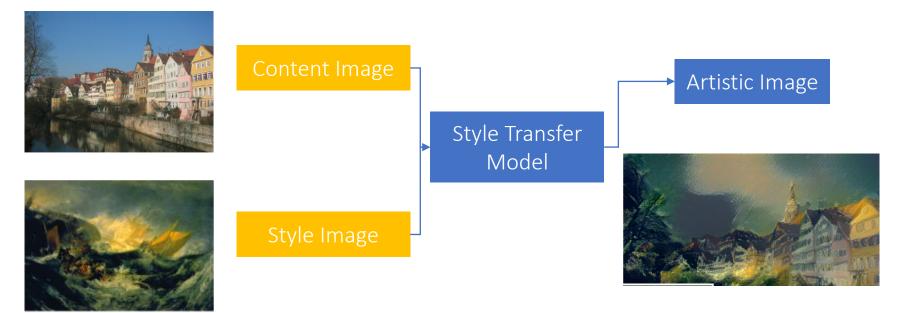
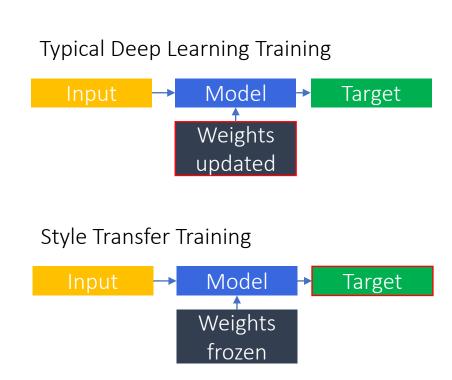
Introduction

- Gatys, Ecker, Bethge: "A Neural Algorithm of Artistic Style"
- Source: https://arxiv.org/pdf/1508.06576.pdf

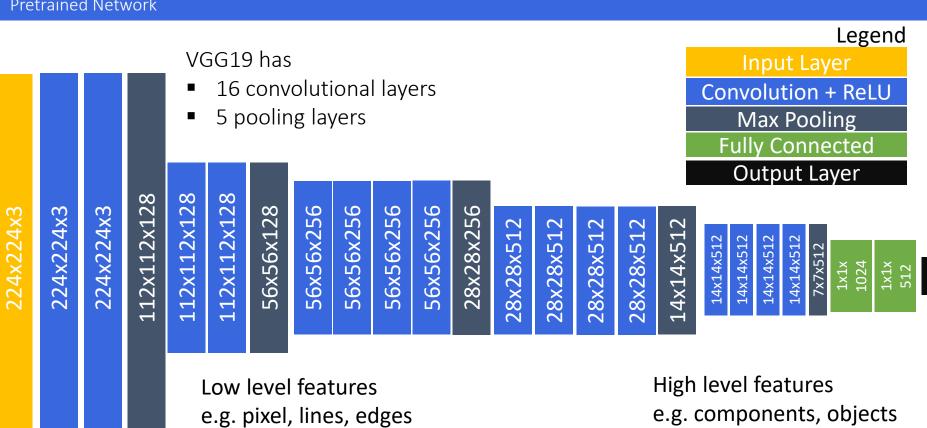


Pretrained Network

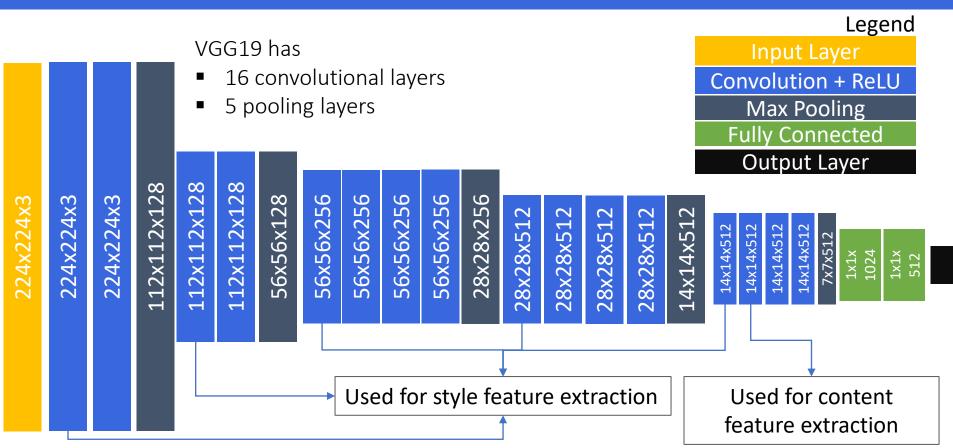
- a pretrained network is used, e.g. VGG16, VGG19
- CNN not changed during training
- only artistic image modified



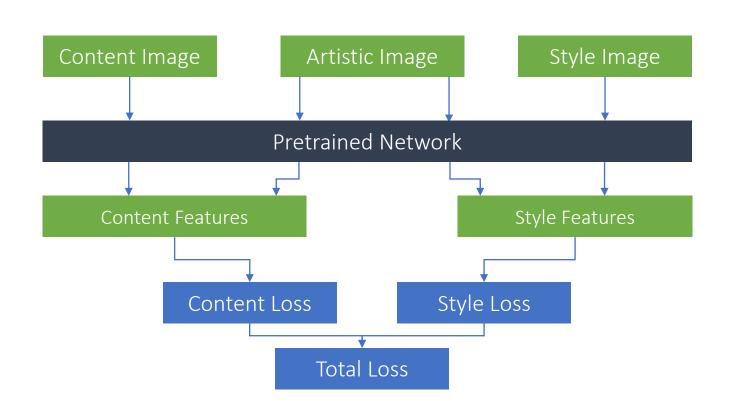
Pretrained Network



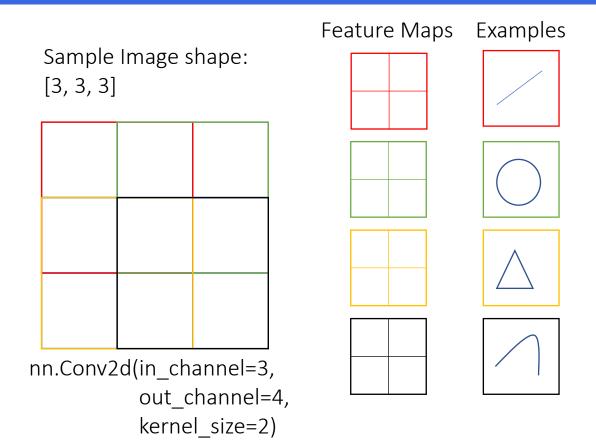
Pretrained Network



Losses

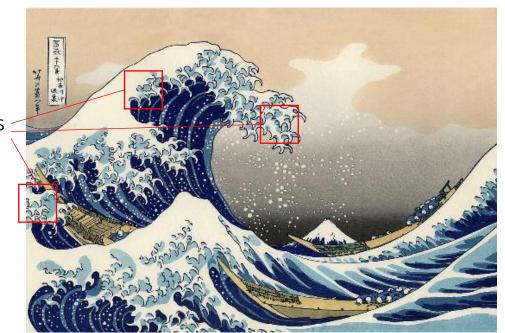


Feature Maps



What is Style?

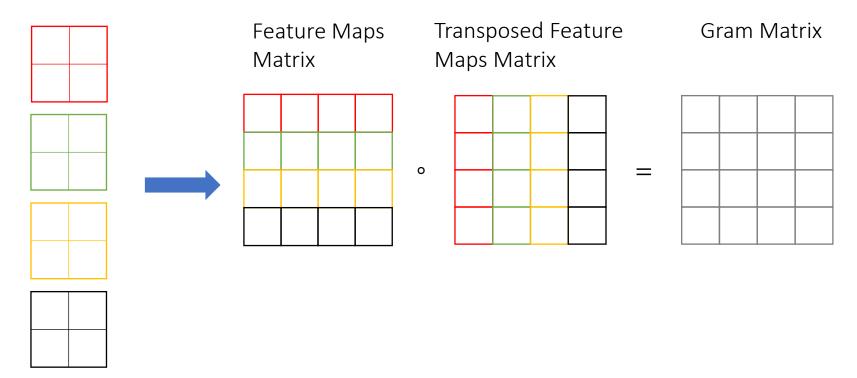
- Selected colors
- Color distributions
- Stroke width
- Correlations of features



Katsushika Hukusai: "The Great Wave off Kanagawa"

Correlation between Feature Maps

Feature Maps



Coding Example

Content

Style

