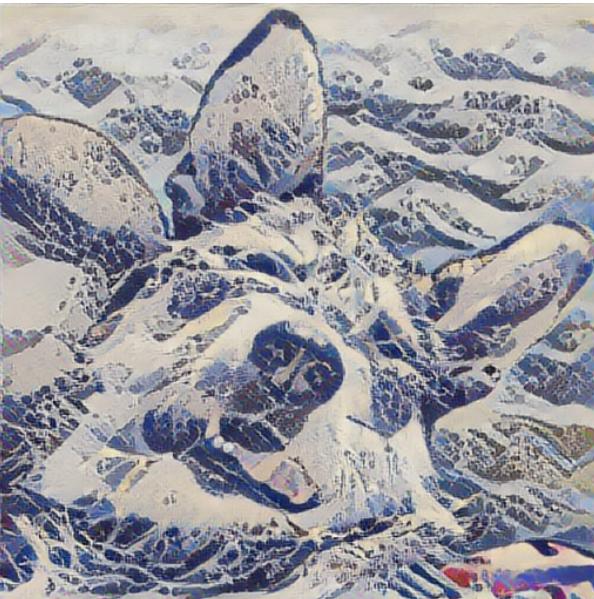
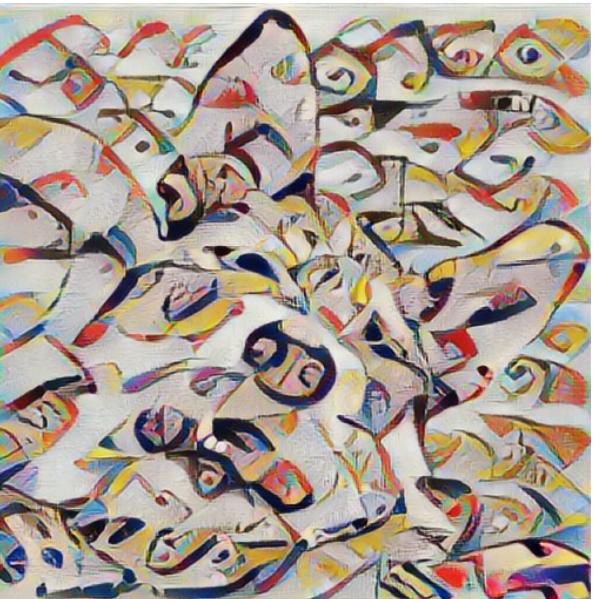
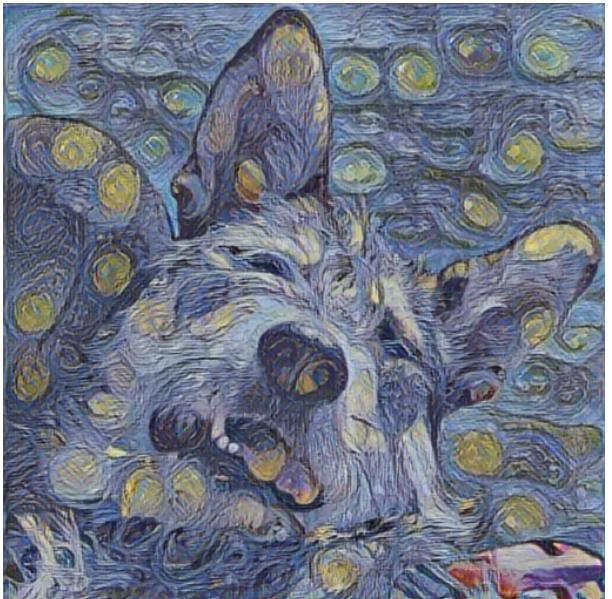
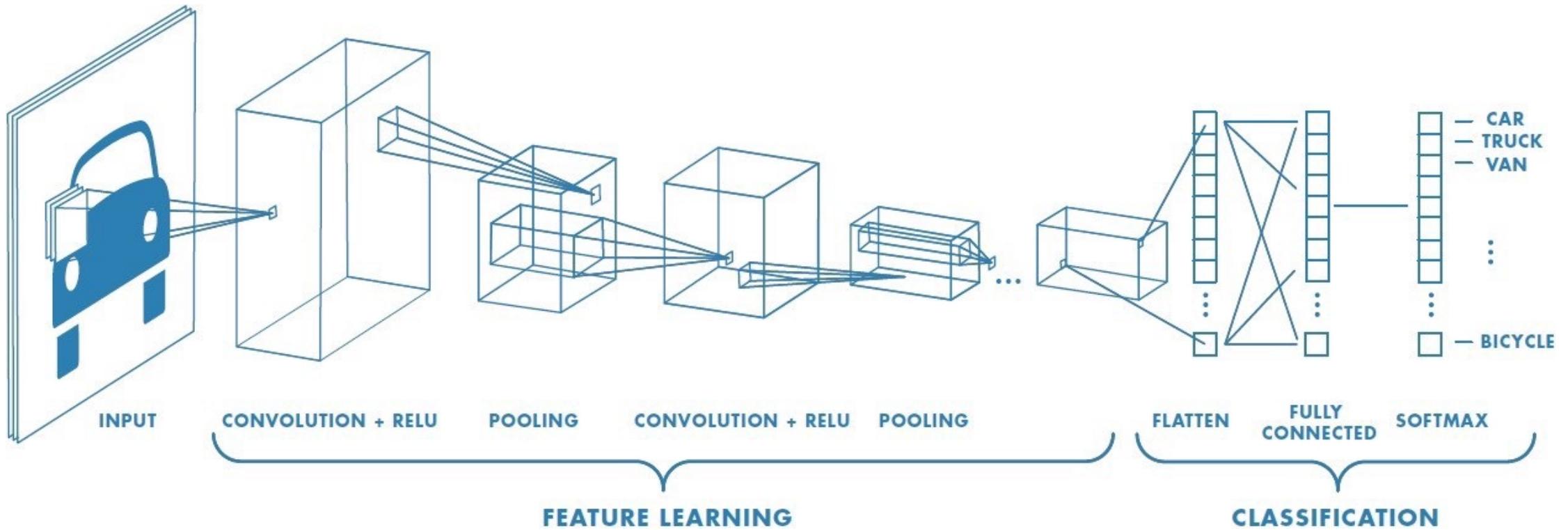




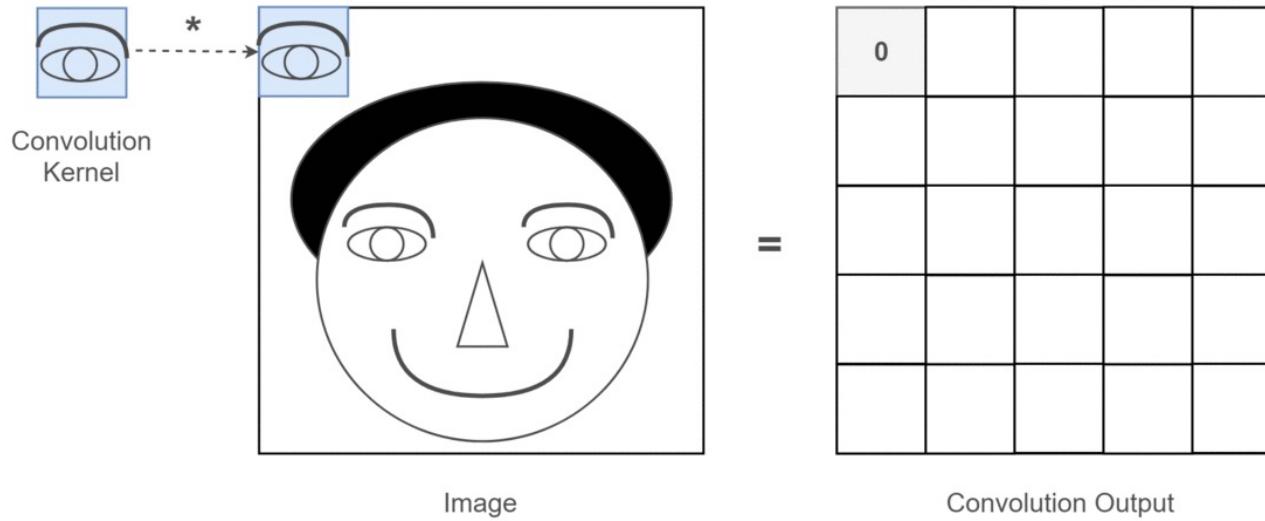
Style transfer



Convolutional Neural Network

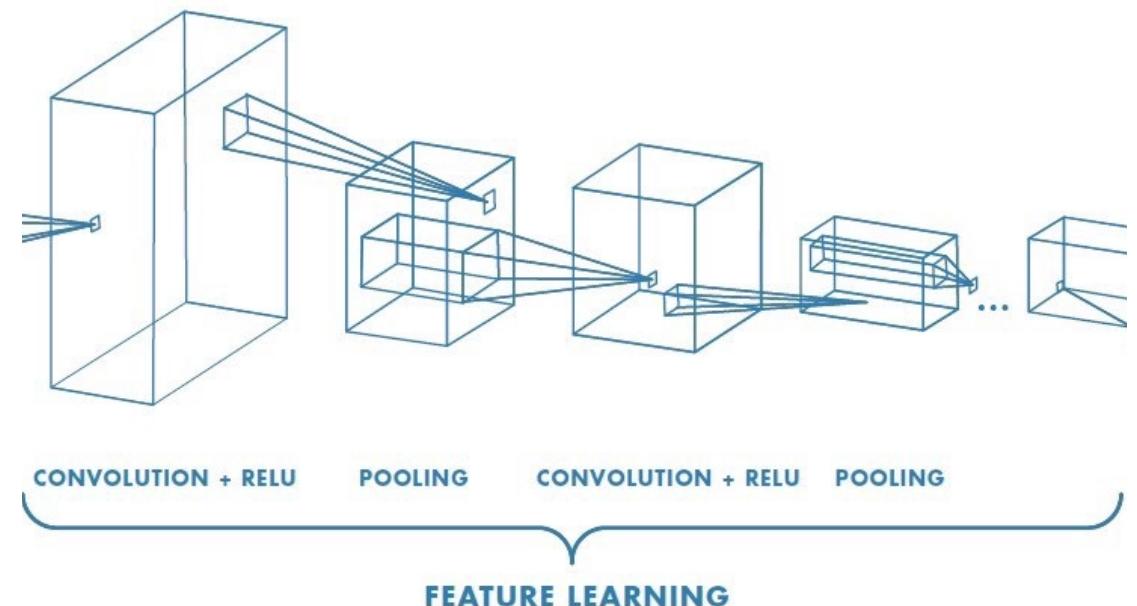
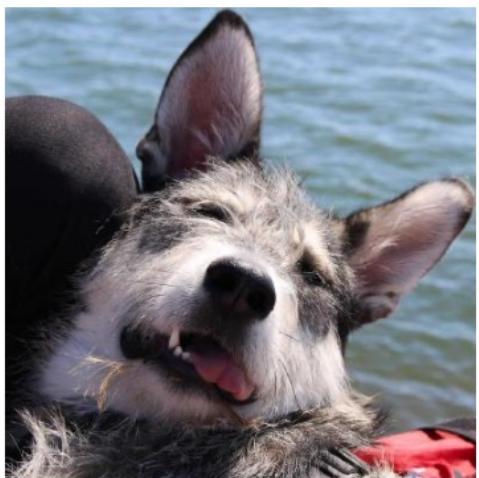
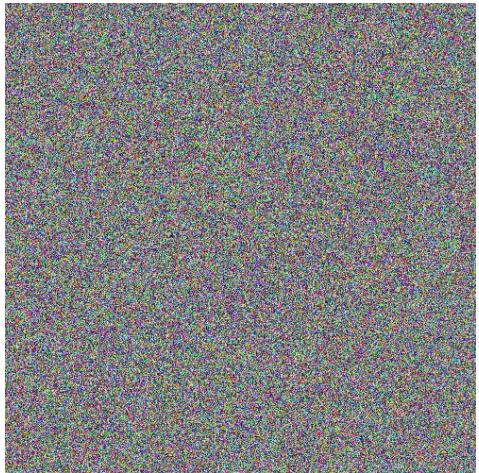


Convolutional Neural Network

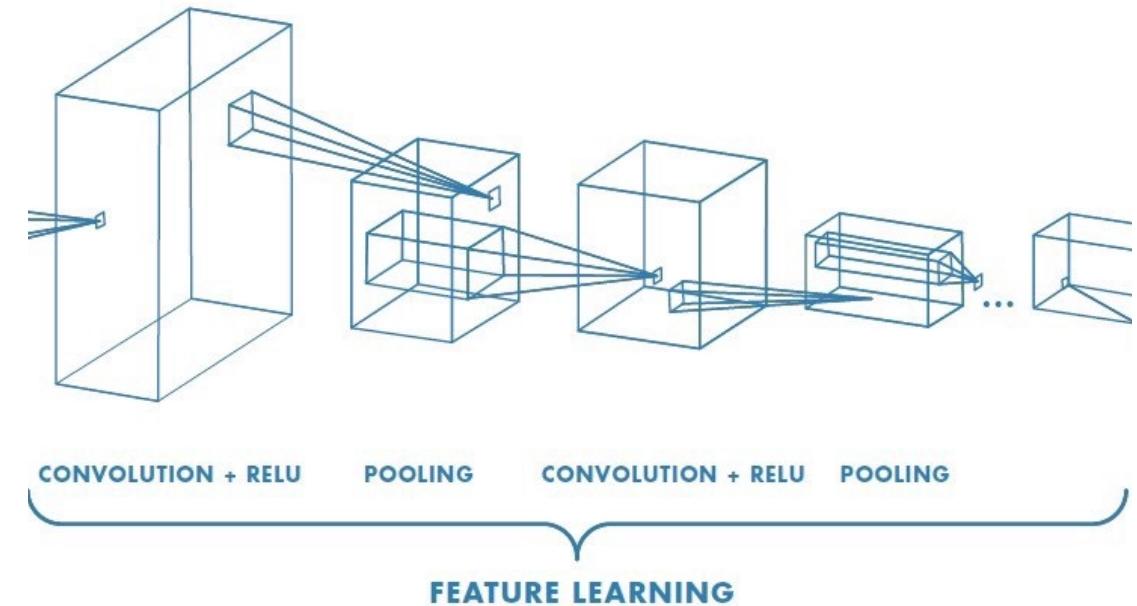
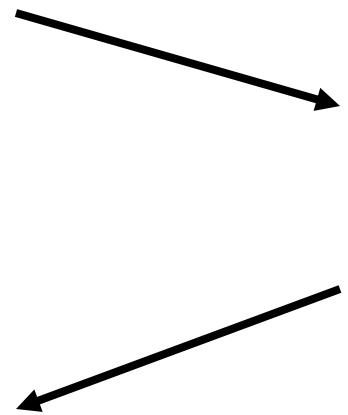
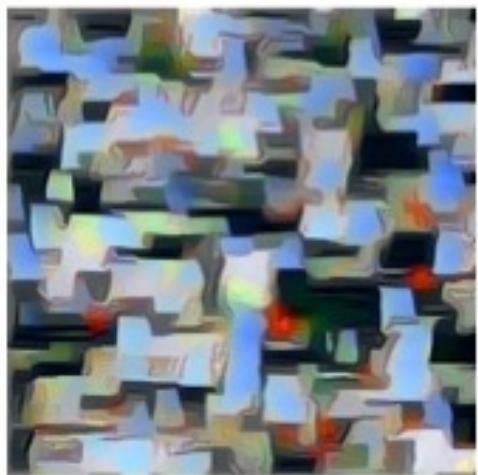
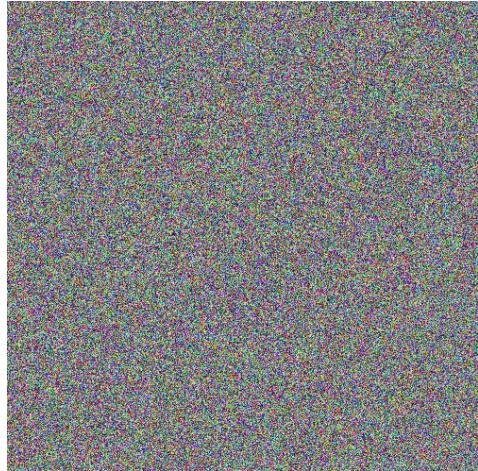


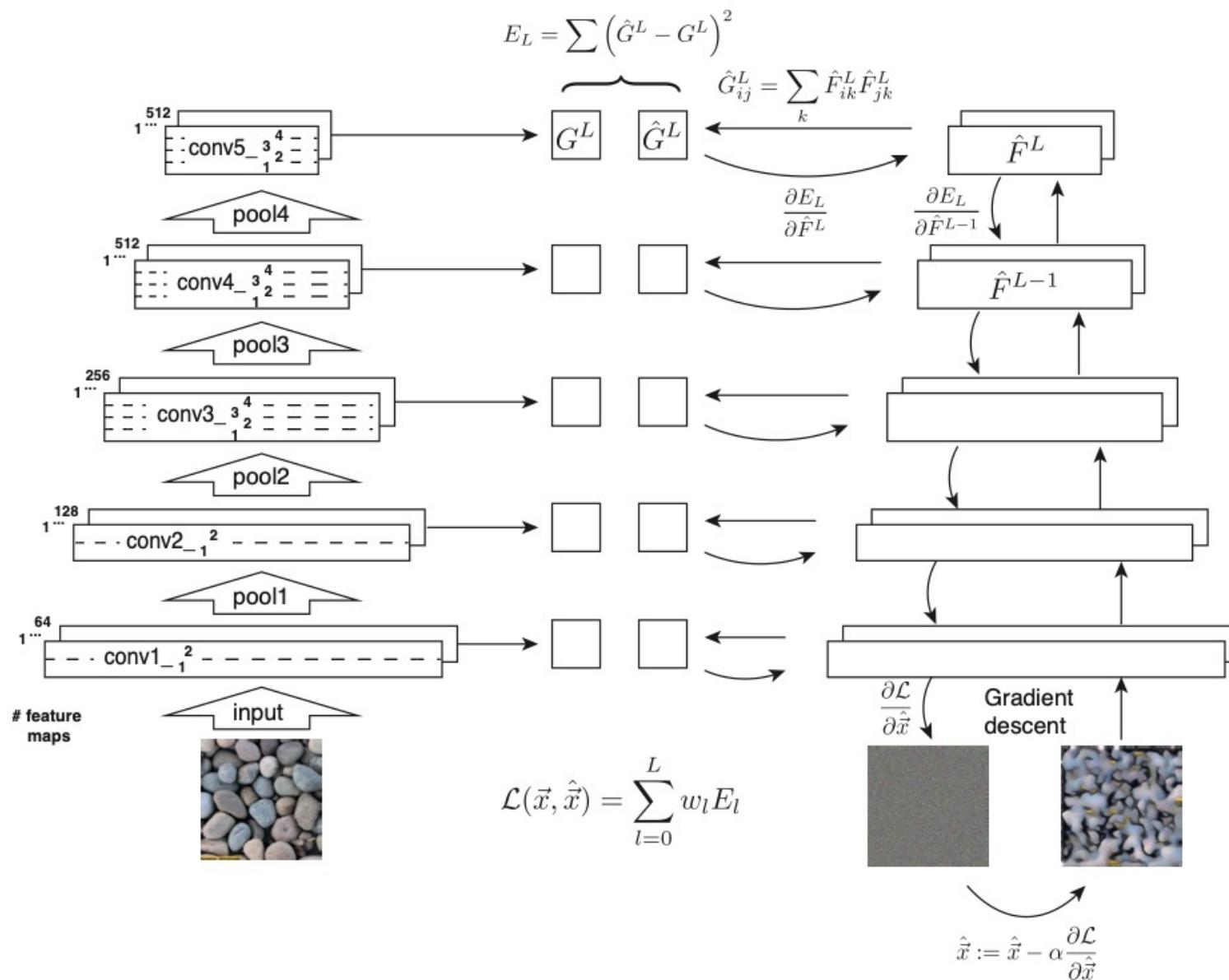
- CNN layer - collection of filters → extracts features
- CNN layer output is activation/feature map – filtered image
- Hierarchical structure of CNN layers → deeper layers capture **the content of the image**
- It is also possible to retrieve texture, color, etc. - **style content** from activation maps

Image Reconstruction



Style (texture,color) Reconstruction





[Texture Synthesis Using Convolutional Neural Networks, Gatys et al. 2015](#)

Style reconstruction

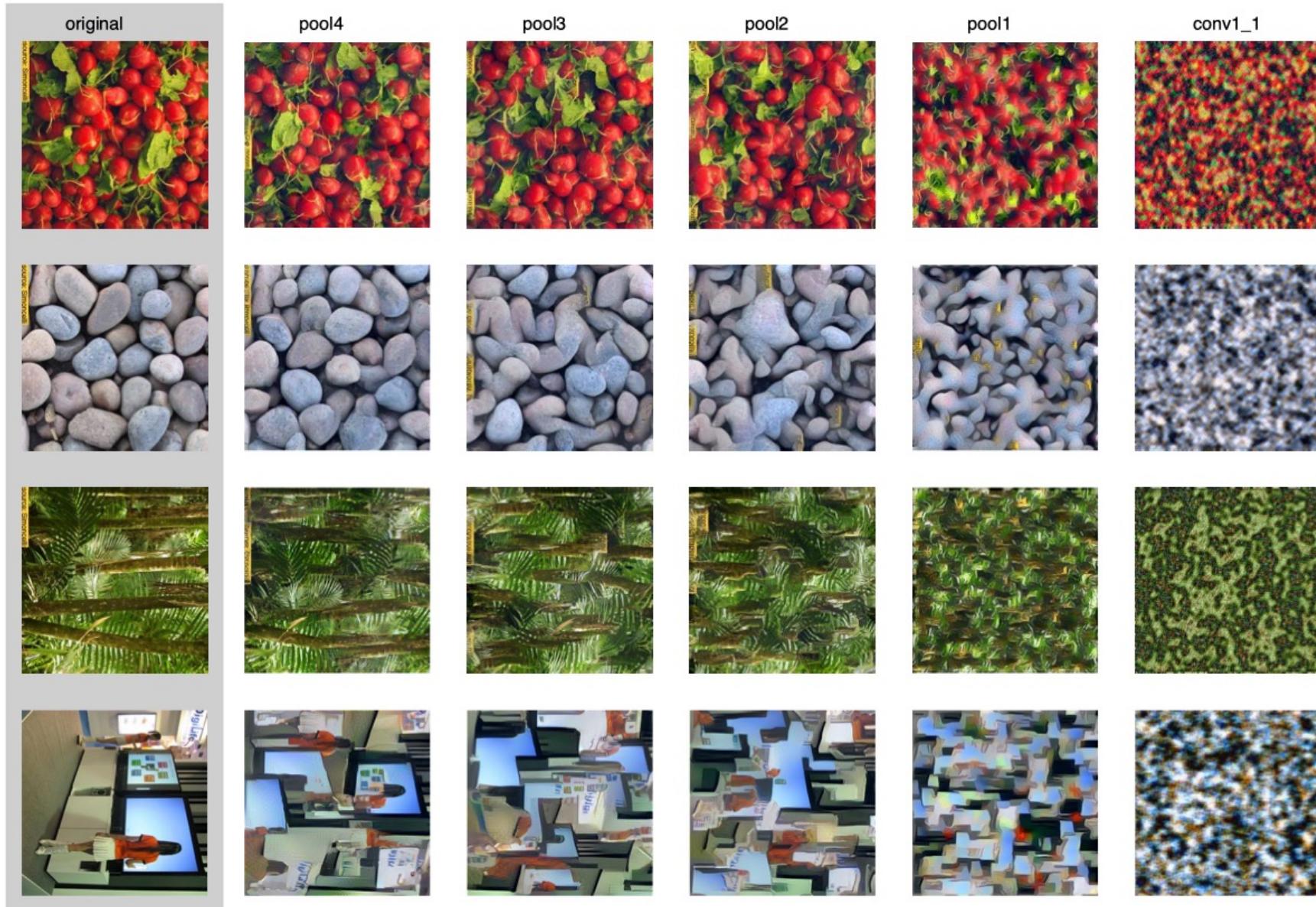
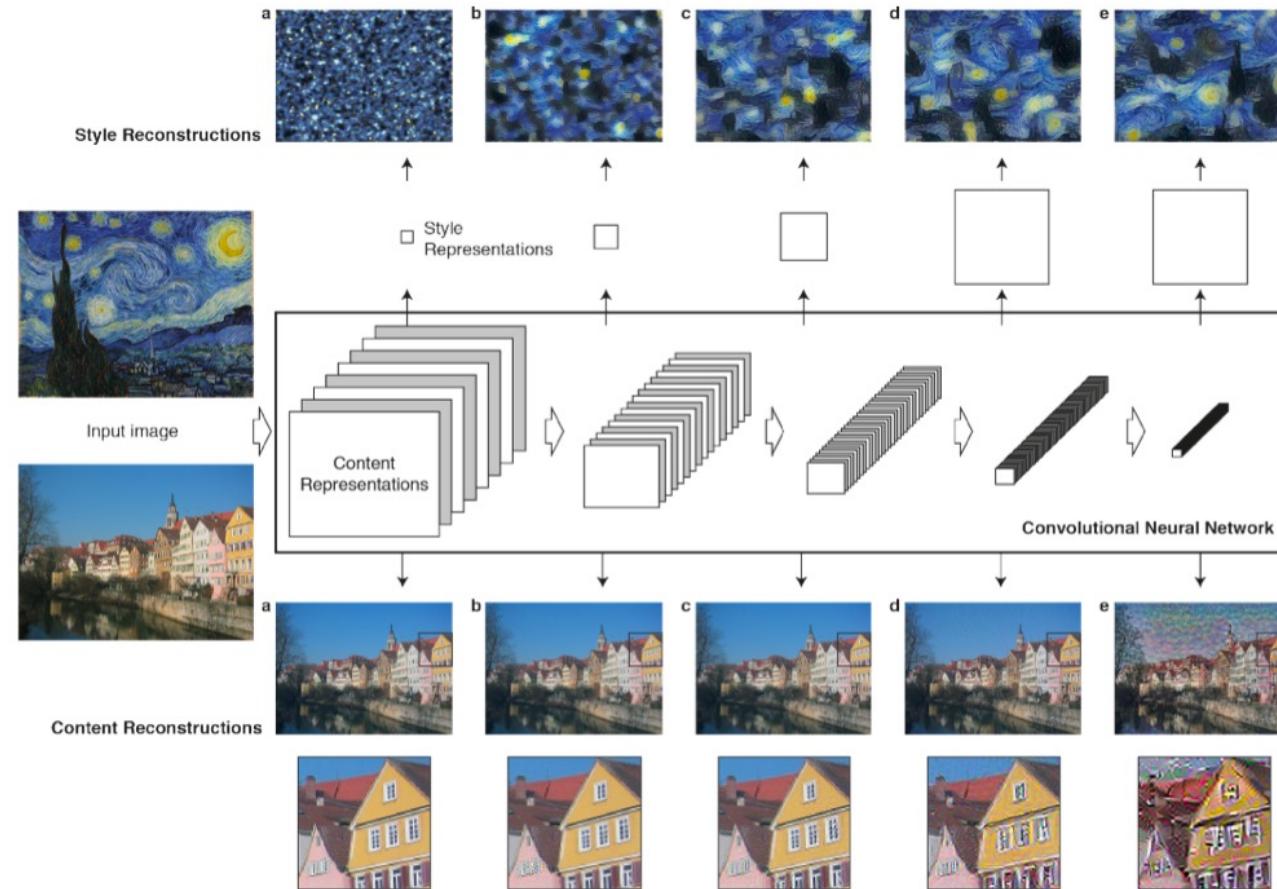


Image + Style Reconstruction



[A Neural Algorithm of Artistic Style , Gatys et al. 2015](#)

Hands-on: Neural style transfer

with [TensorFlow Hub](#)

Style Transfer – Ready to use tools



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Combine two styles



Style image size ②

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