

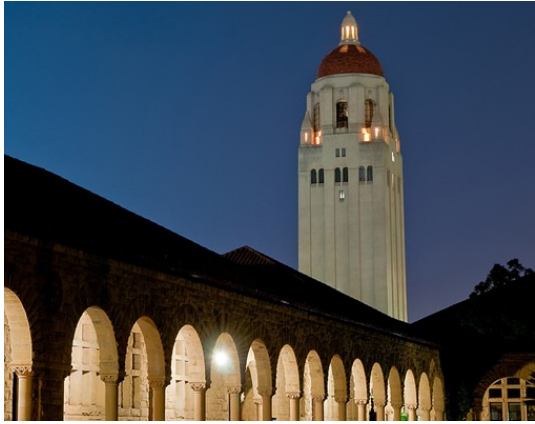


deeplearning.ai

Neural Style Transfer

Cost function

Neural style transfer cost function



Content C



Style S



Generated image G

$$\mathcal{J}(G) = \alpha \mathcal{J}_{\text{content}}(C, G) + \beta \mathcal{J}_{\text{style}}(S, G)$$

Find the generated image G

1. Initiate G randomly

G : $100 \times 100 \times 3$

↑
RGB

2. Use gradient descent to minimize $J(G)$

$$G := G - \frac{d}{dG} J(G)$$

