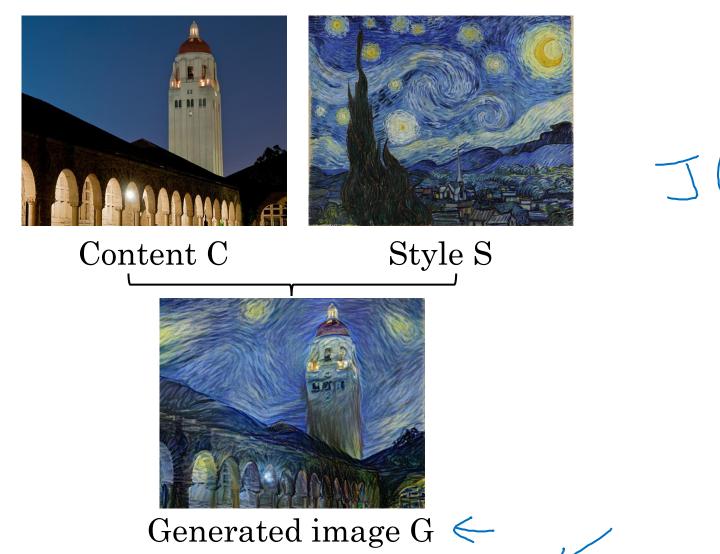


Neural Style Transfer

Cost function

Neural style transfer cost function



$$J(G) = \lambda J_{\text{content}}(C, G)$$

$$+ \beta J_{\text{Style}}(S, G)$$

[Gatys et al., 2015. A neural algorithm of artistic style. Images on slide generated by Justin Johnson] Andrew Ng

Find the generated image G

1. Initiate G randomly

$$\underline{G}$$
: $\underline{100} \times \underline{100} \times \underline{3}$

2. Use gradient descent to minimize J(G)

$$G:=G-\frac{\lambda}{2G}J(G)$$











