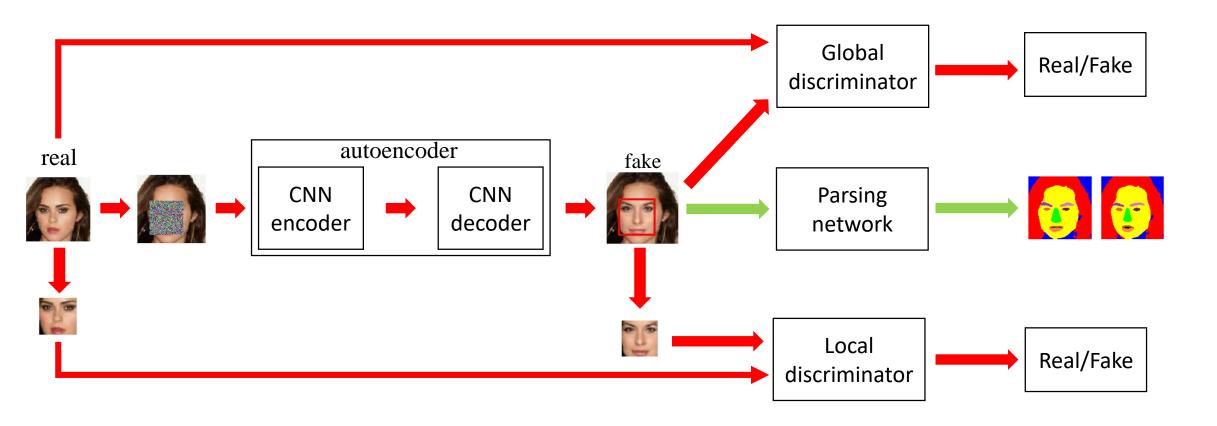
# Generative Face Completion

2017 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)

#### Framework



## Preprocessing



對齊眼睛,並縮 放到128×128











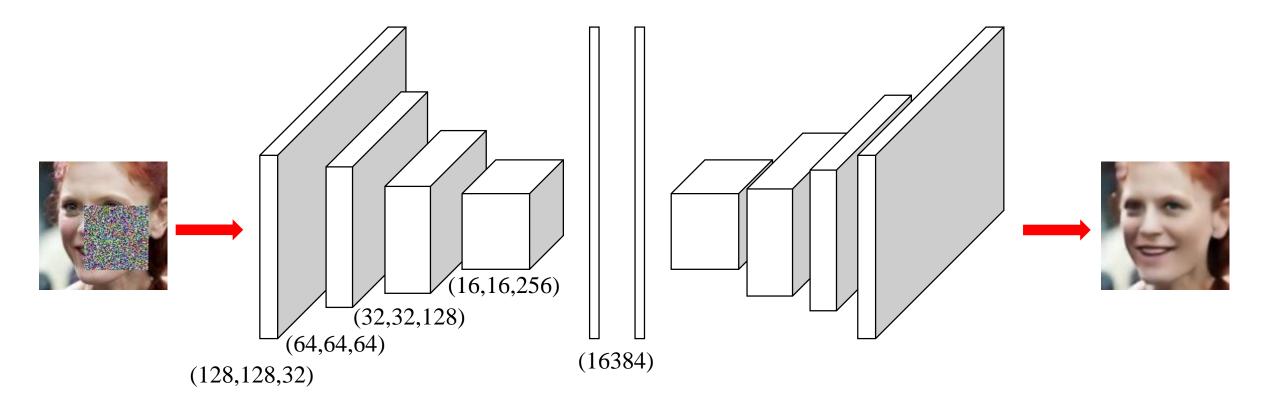
Original image





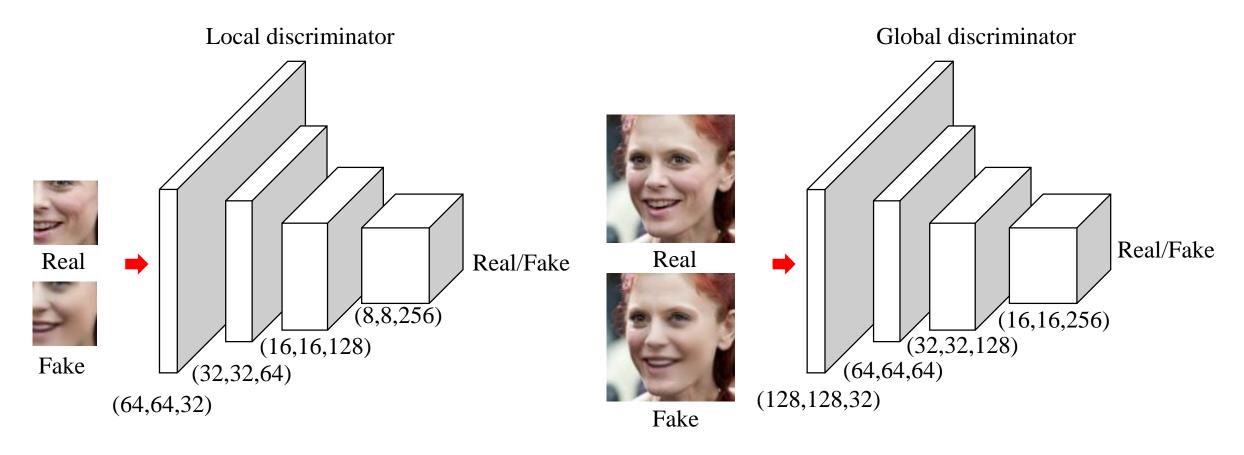


#### Generator



$$\begin{split} L &= L_{reconstruction} + 300L_{a_1} + 300L_{a_2} \\ L_{a_i} &= \min_{g} \max_{D} \varepsilon_{x \sim p_{data(x)}} [logD(x)] + \varepsilon_{z \sim p_{z(z)}} [log(1 - D(g(z)))] \end{split}$$

#### Discriminator



$$L_{a_i} = \min_{g} \max_{D} \varepsilon_{x \sim p_{data(x)}} [log D(x)] + \varepsilon_{z \sim p_{z(z)}} [log (1 - D(g(z)))]$$

### Result

