The background is a complex, abstract composition of numerous thin, glowing lines in shades of light blue, cyan, and magenta. These lines are set against a solid black background, creating a sense of depth and movement. The lines are most concentrated in the center, where they form a dense, web-like structure that resembles a stylized, ethereal figure or a complex network of fibers. The lines radiate outwards from this central point, becoming sparser and more chaotic as they extend towards the edges of the frame. The overall effect is one of dynamic energy and intricate detail.

# 大藝術家



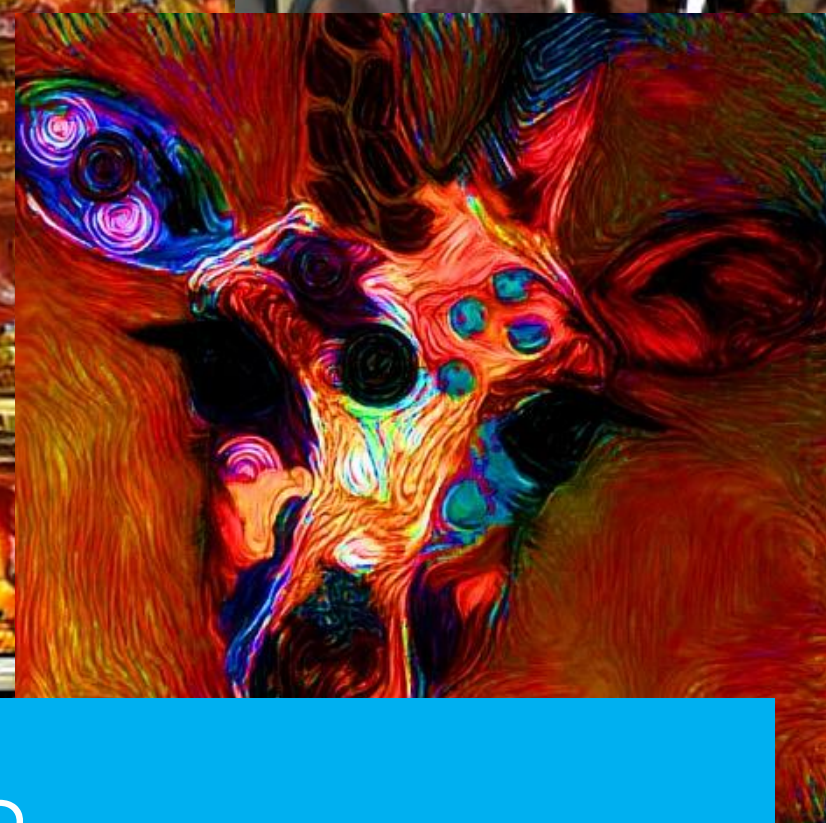
實做案例位置  
github

[https://github.com/AllanYiin/DeepBelief\\_Course5\\_Examples/tree/master/epoch401\\_大藝術家](https://github.com/AllanYiin/DeepBelief_Course5_Examples/tree/master/epoch401_大藝術家)

colab

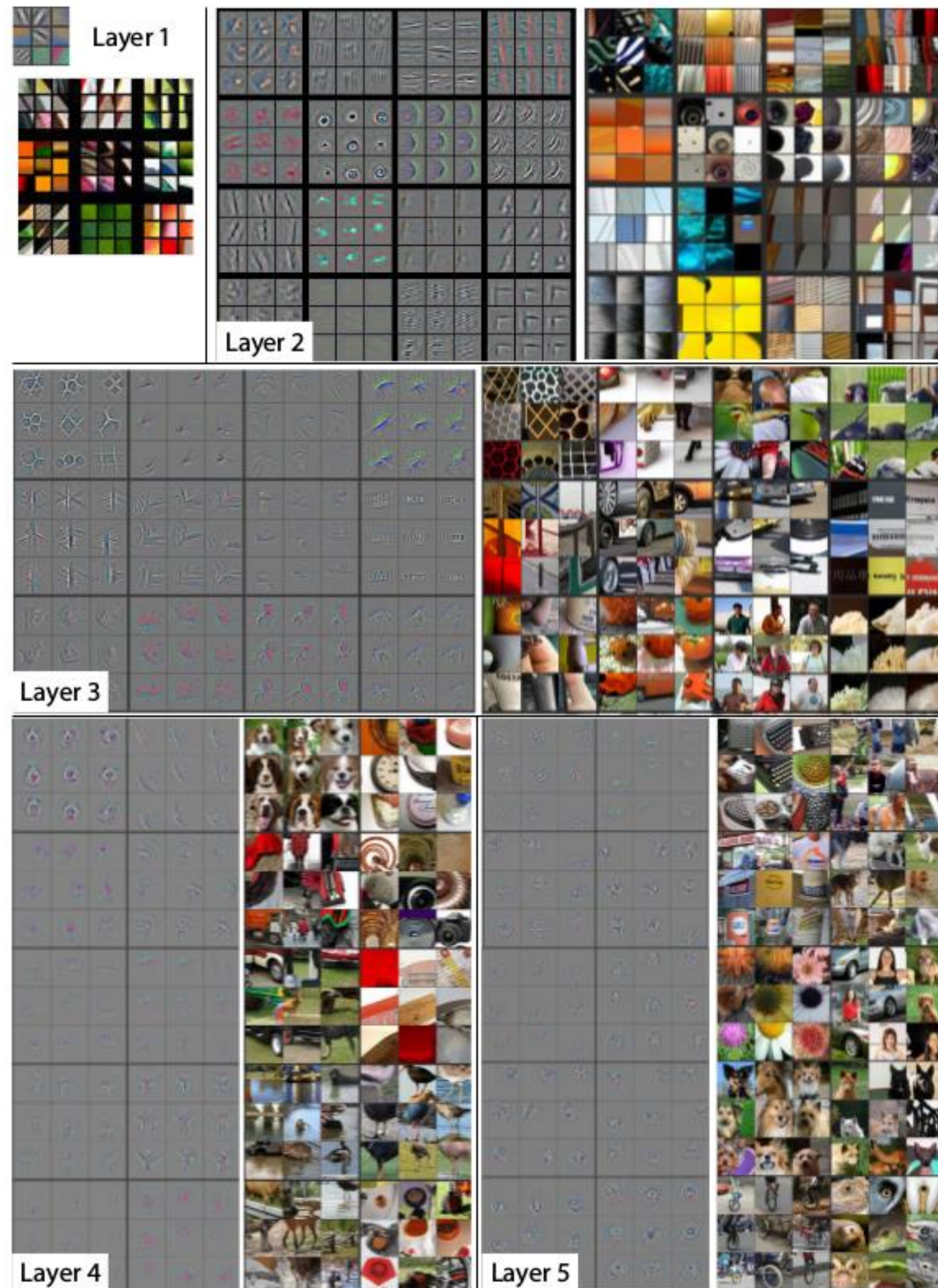
<https://drive.google.com/open?id=1ppB5QOt4bE7ZprMZAZ37rSWZCpJ4DSLg>





以為藝術家不需要學AI?





低層次特徵  
筆觸、材質....

風格就是特徵

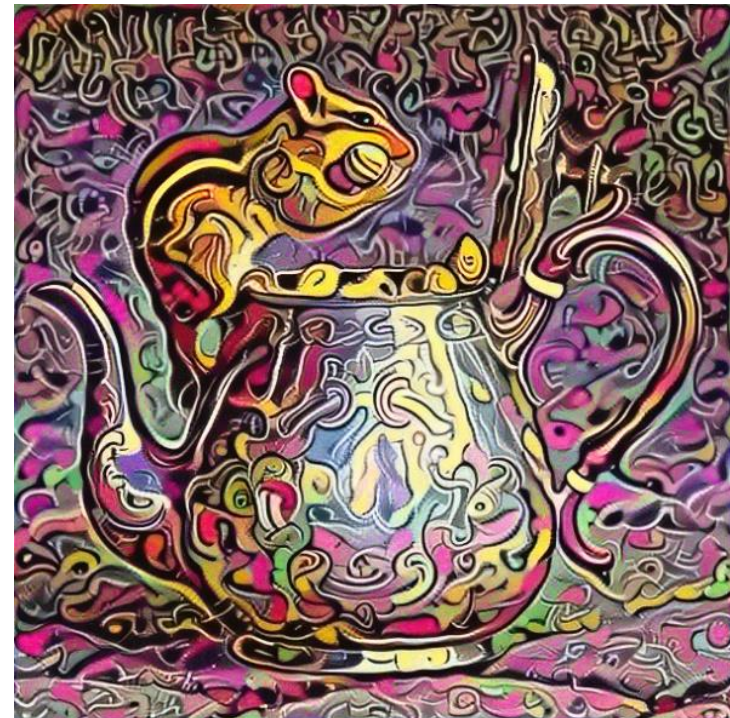
高層次特徵  
構圖、光影....



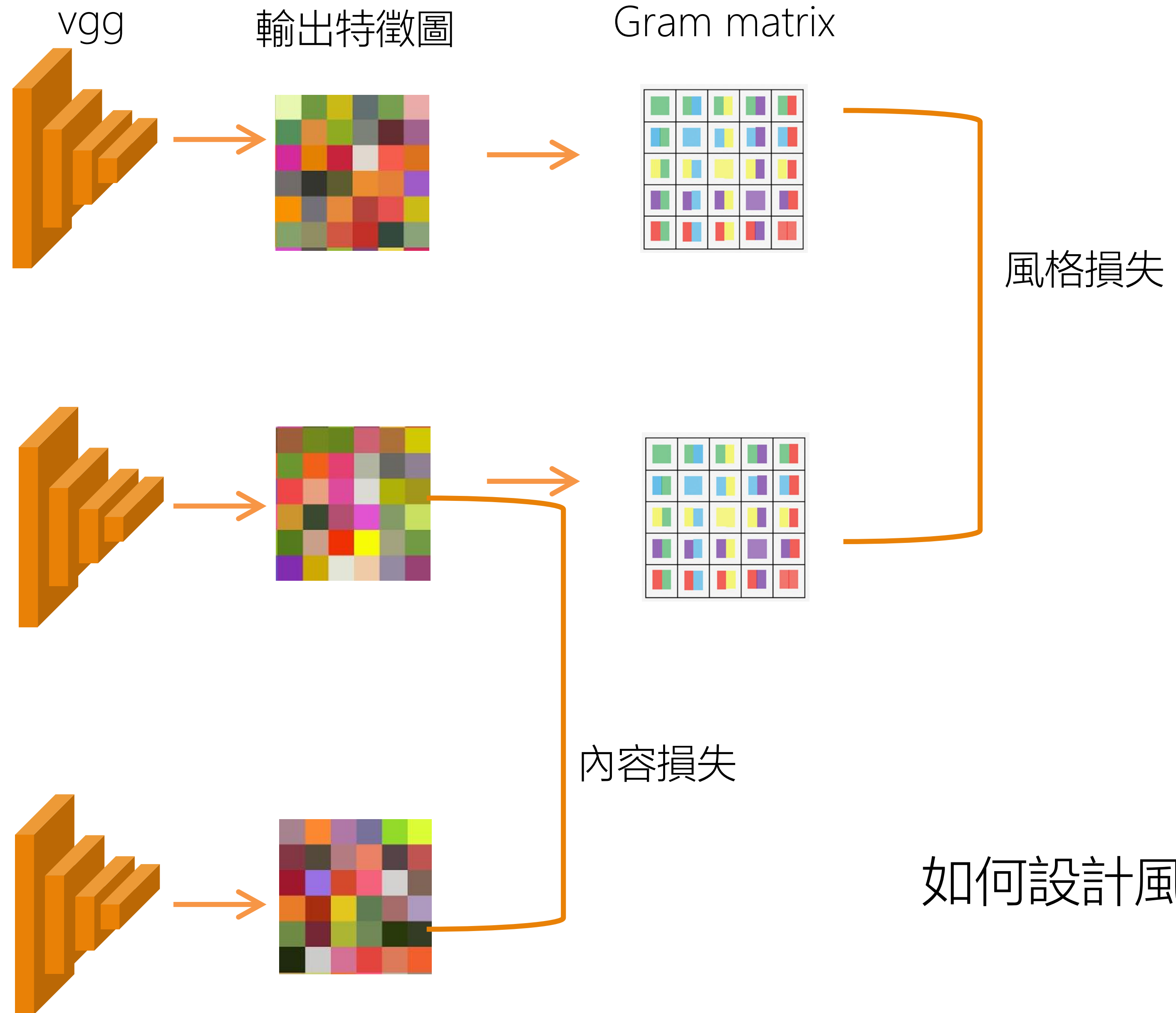
風格圖



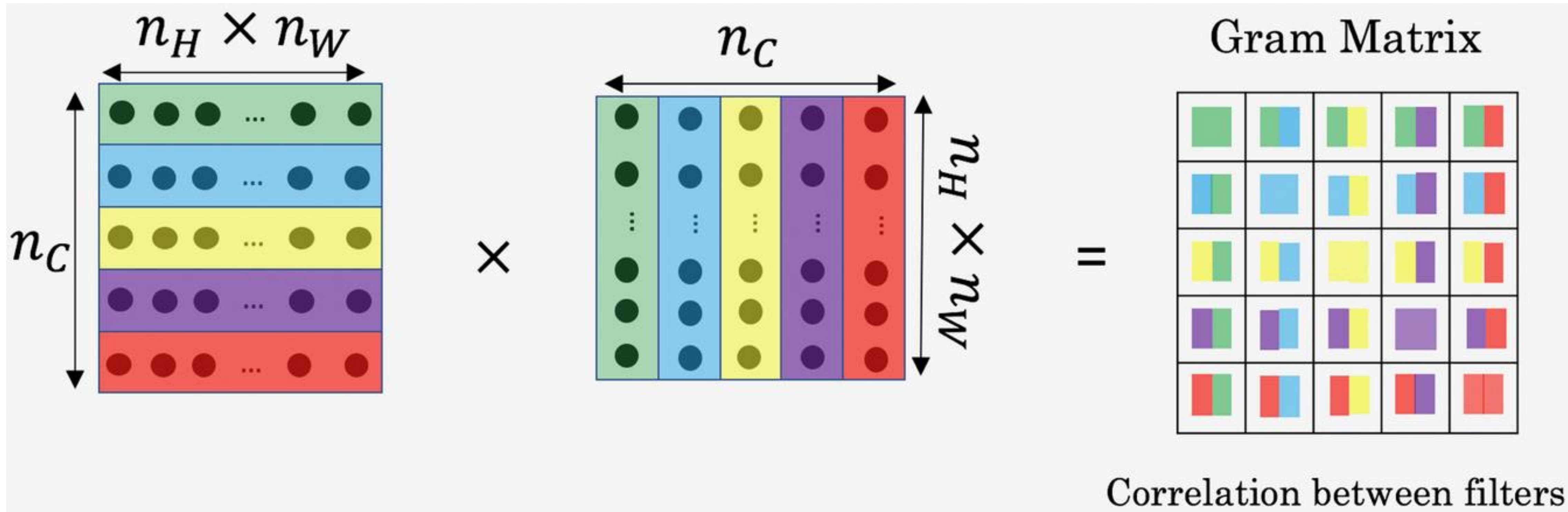
輸出圖

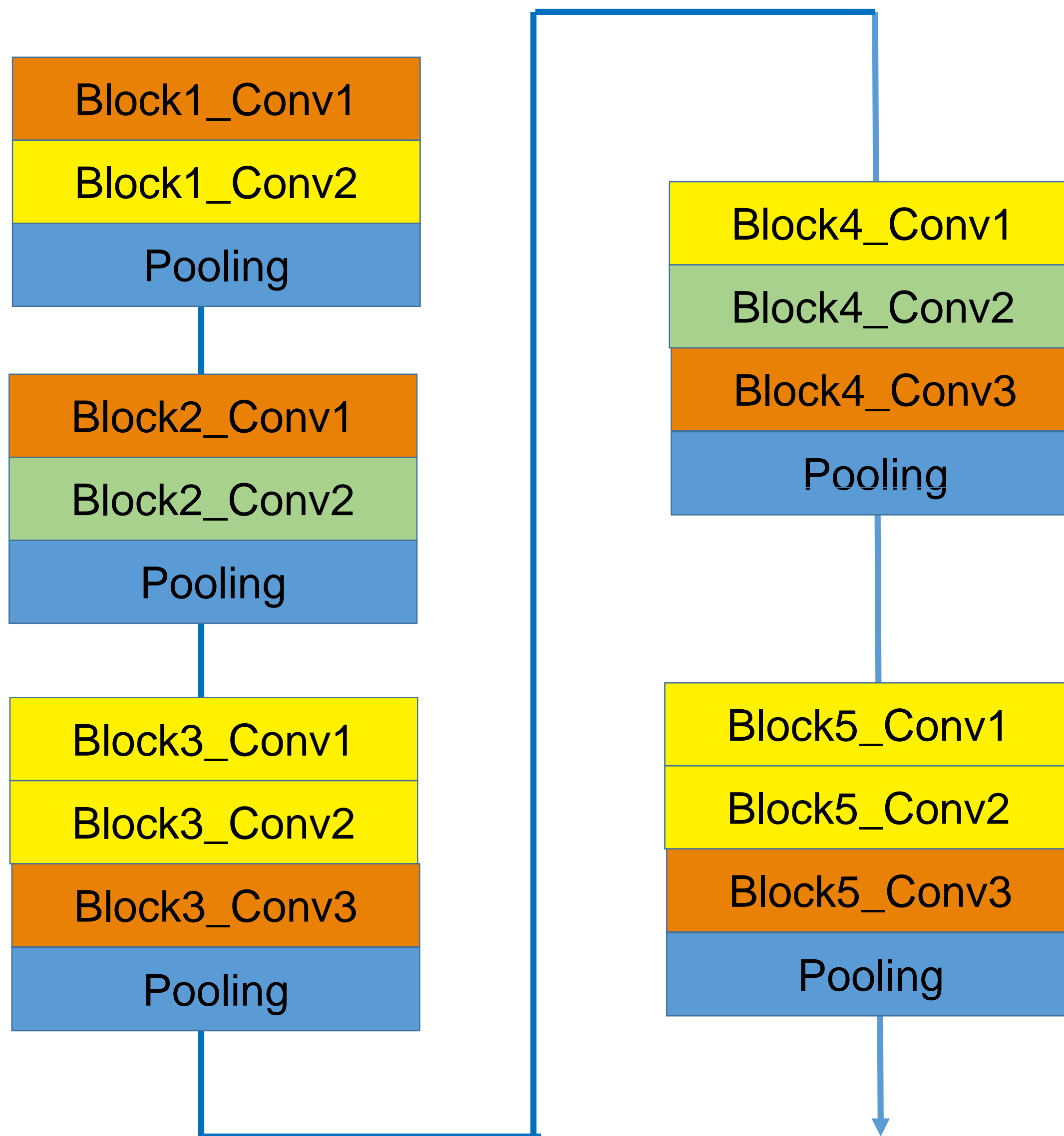


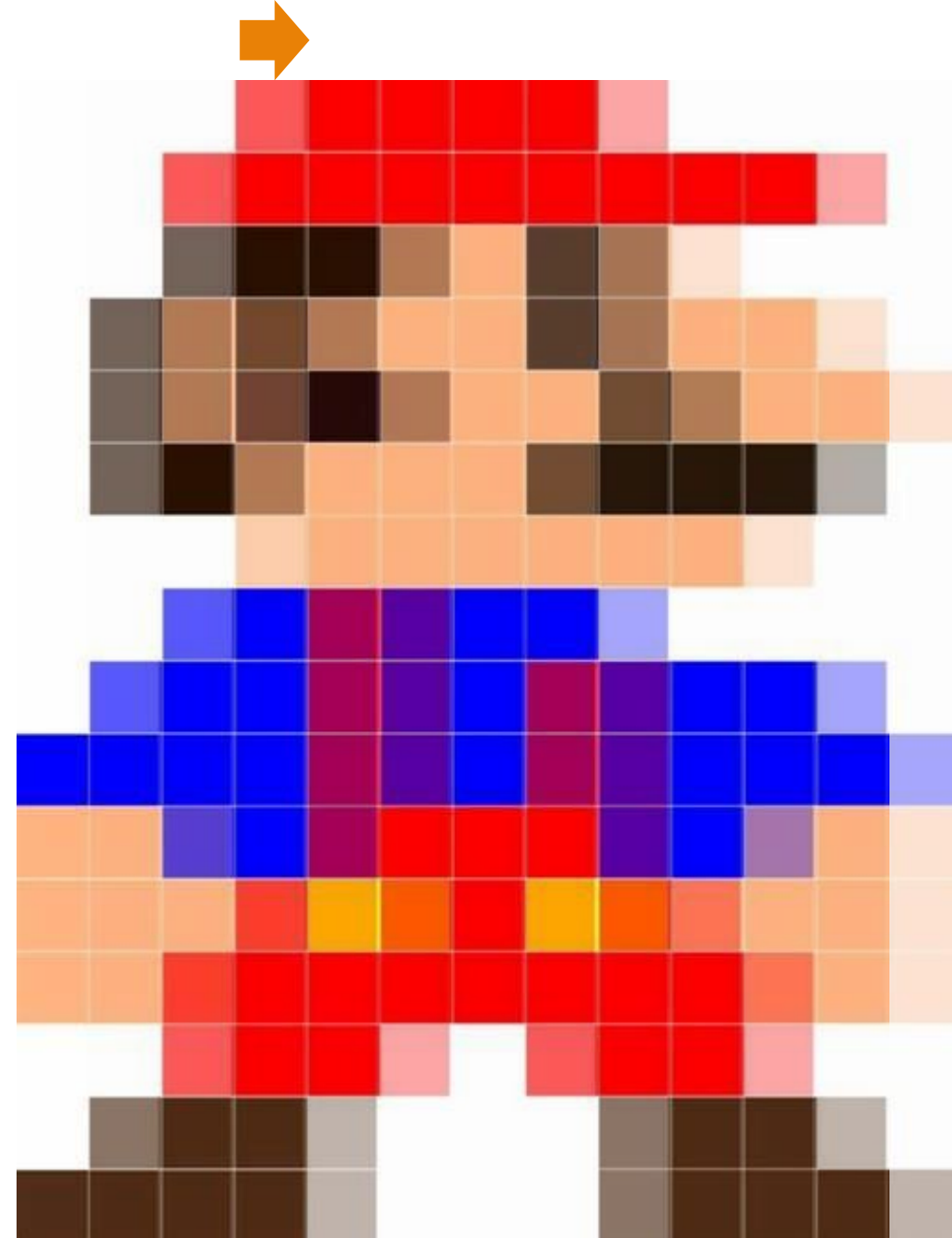
內容圖





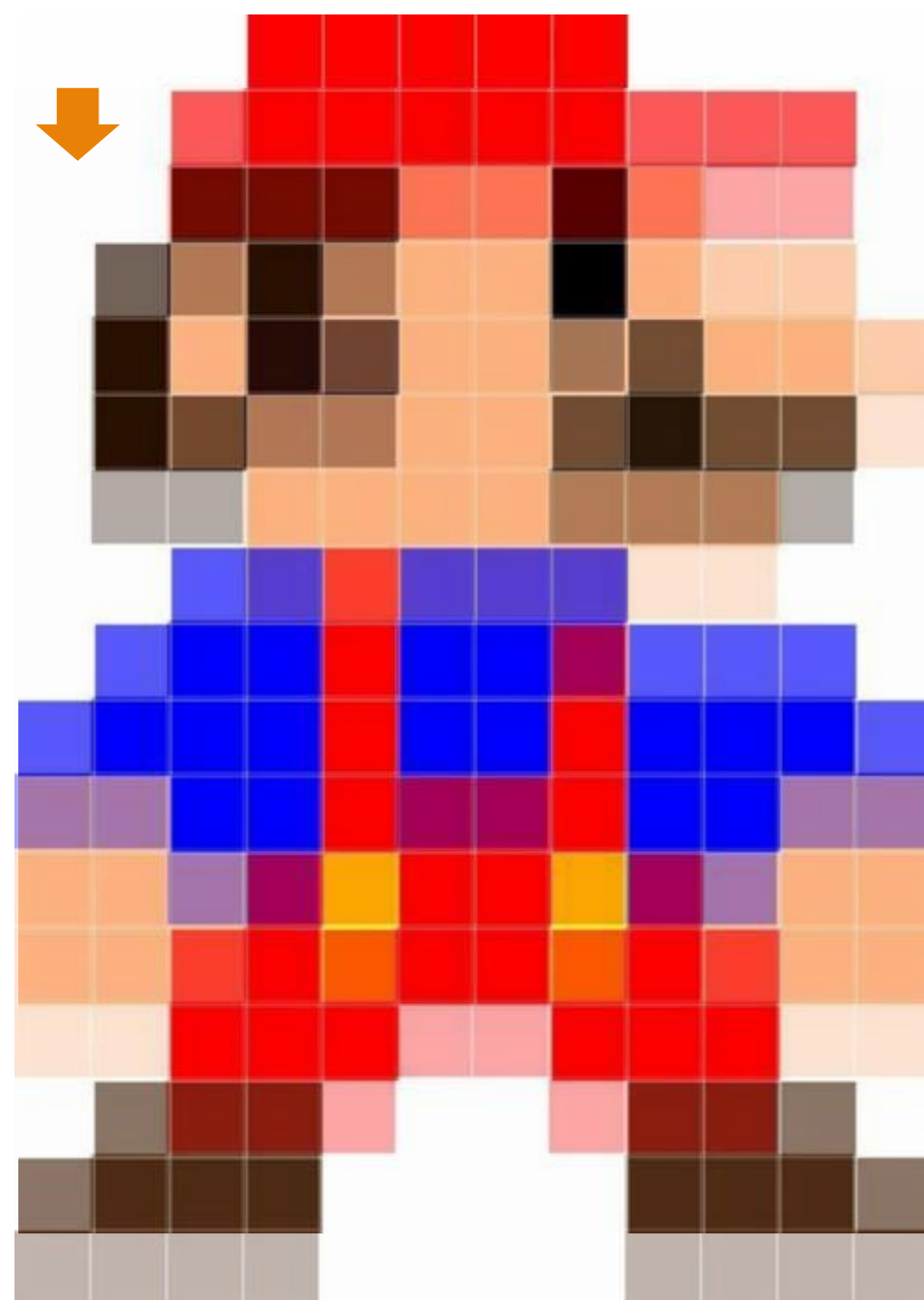






總體變動損失  
Total variant loss

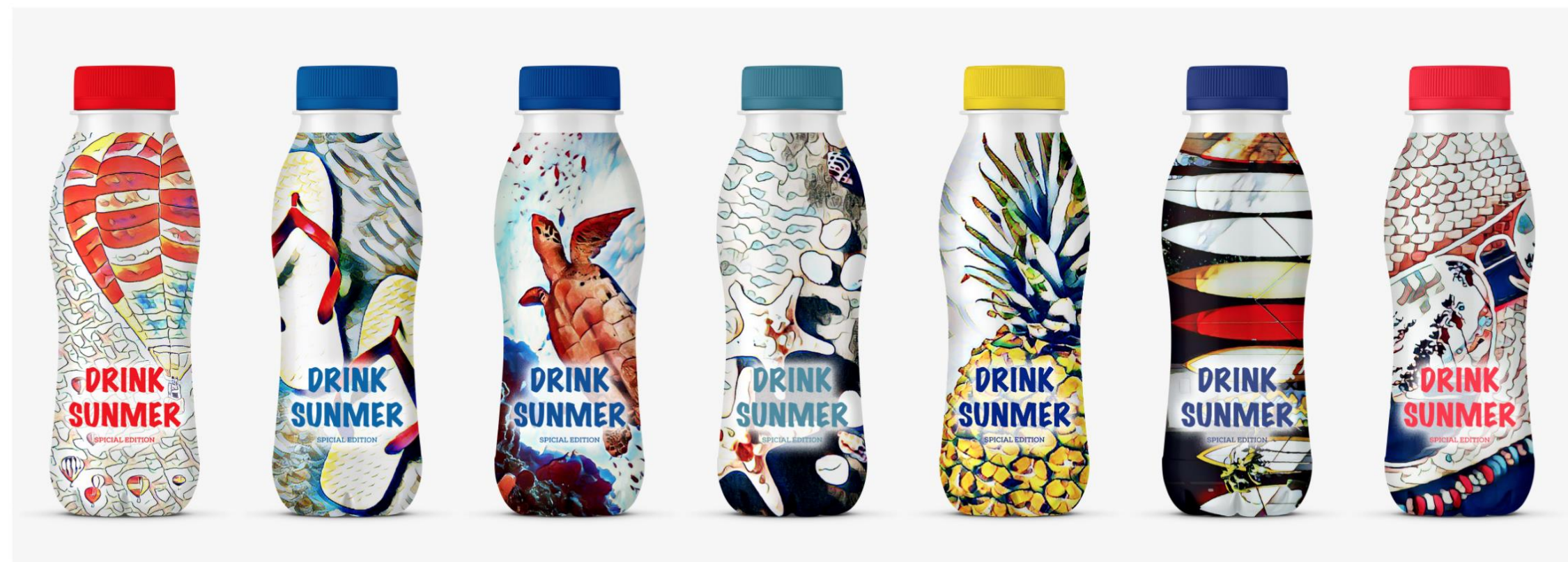
$$\mathcal{L}_{\text{TV}}(\hat{I}) = \frac{1}{hwc} \sum_{i,j,k} \sqrt{(\hat{I}_{i,j+1,k} - \hat{I}_{i,j,k})^2 + (\hat{I}_{i+1,j,k} - \hat{I}_{i,j,k})^2}.$$







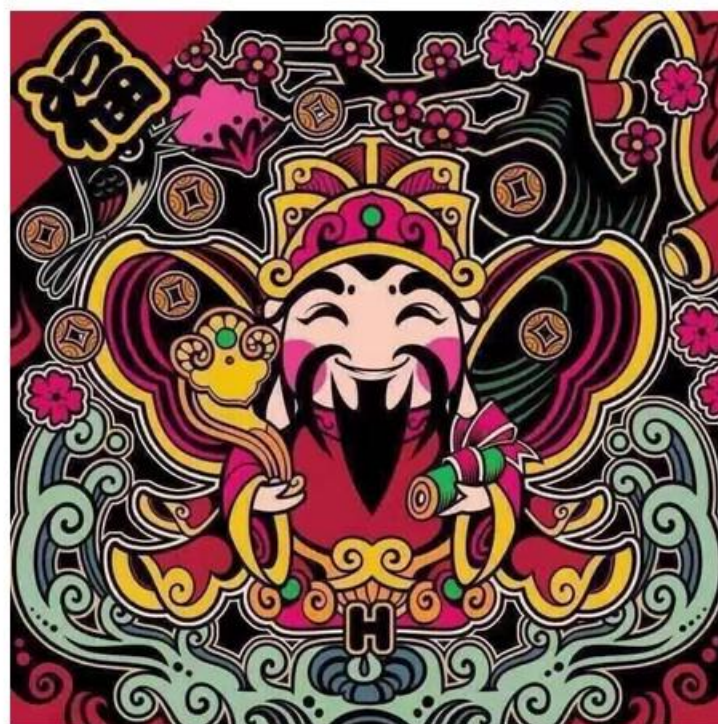




## 風格移轉的應用









# Q&A

