**Network training and datasets**

1.In the 5 folders, ***content*** is the original watermark image, ***extract\_l2*** is the network training result, ***l2-1*** is the network training data, the zero-watermark image synthesized from the protected image and the watermarked image after the attack, ***style*** is the protected image, and ***style\_attack*** is the protected image that has been attacked post image.

2.***Extract\_l2\_1.pth*** is the network parameter after training

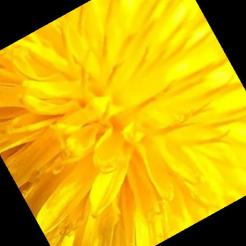
3.***Pre\_dataset.ipynb*** generates the data in l2-1 into .dat format

4. ***Pre\_gen\_attacking.ipynb*** is the data for attacking the protected image

5.***Train\_verify.ipynb*** uses the l2-1 database to train the network so that the network can extract the watermark

**Protect image attacked attack image Synthesize watermark with attack Extract image**

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