

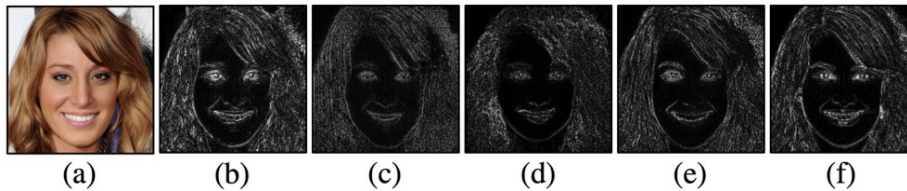
# DHG-GAN: Diverse Image Outpainting via Decoupled High Frequency Semantics Supplementary Material

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In this supplementary material, we present more experimental results.

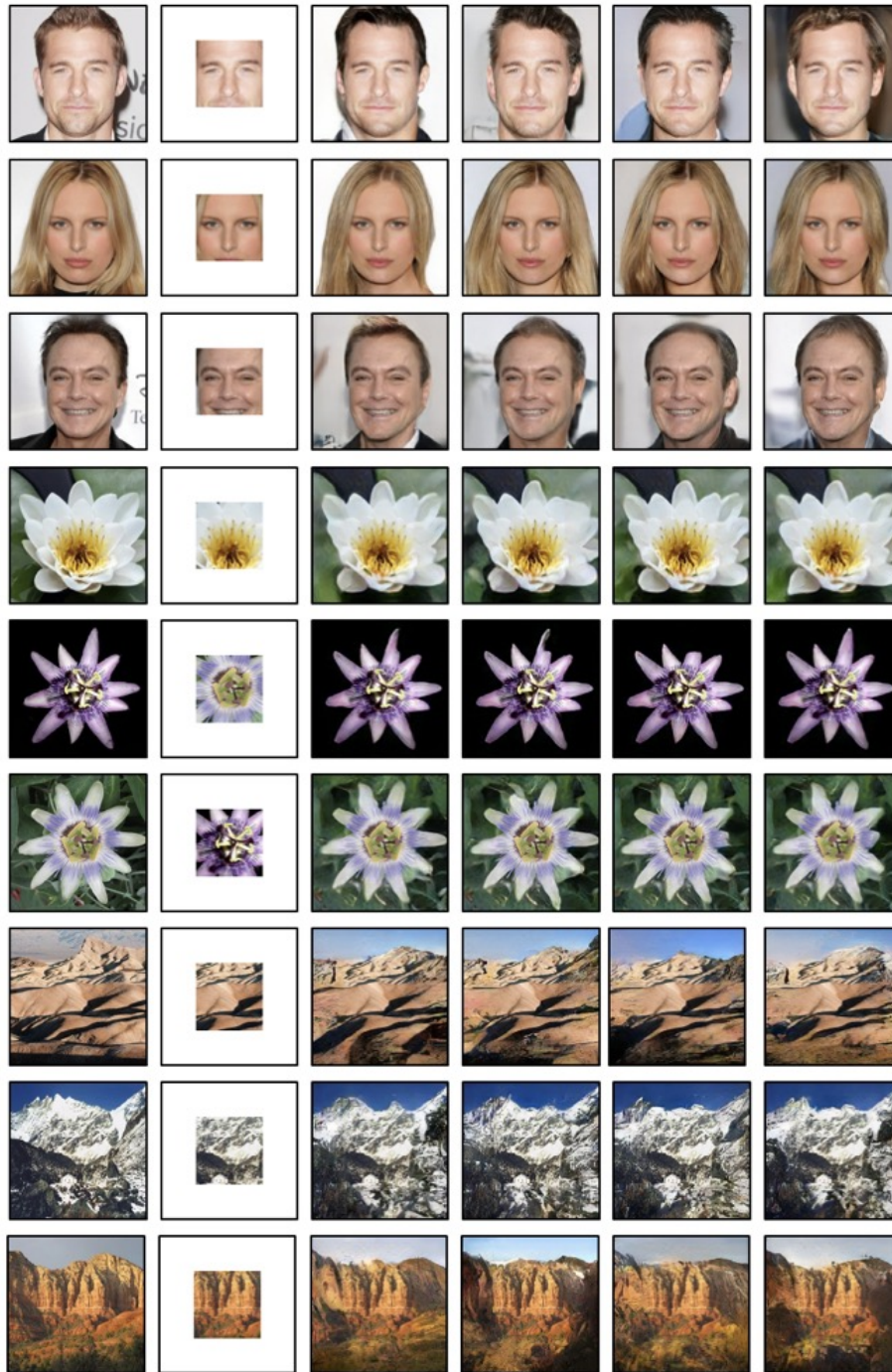
- We demonstrate visualisation results of the performance impact on different stylemap sizes.
- We provide additional diverse outpainting results of our method.



**Fig. 1.** Results of encoder inverse mapping performance using different stylemap sizes. (a) Original image. (b) Decoupled high-frequency information from original image. (c) Using  $4 \times 4 \times 32$  stylemap. (d) Using  $4 \times 4 \times 64$  stylemap. (e) Using  $8 \times 8 \times 32$  stylemap. (f) Using  $8 \times 8 \times 64$  stylemap.

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**Fig. 2.** The additional diverse inpainting results of our method on CelebA-HQ, Oxford Flower102 and Place2 datasets.