

U-Net architecture

Mentions: U-Net [5], 3D-U-Net [1], Graph-U-Net [2], H-DenseUNet [4], nnU-Net [3], UNet++ [6]

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1 U-Net

U-Net [5] is for semantic image segmentation - each pixel represents a classification task.

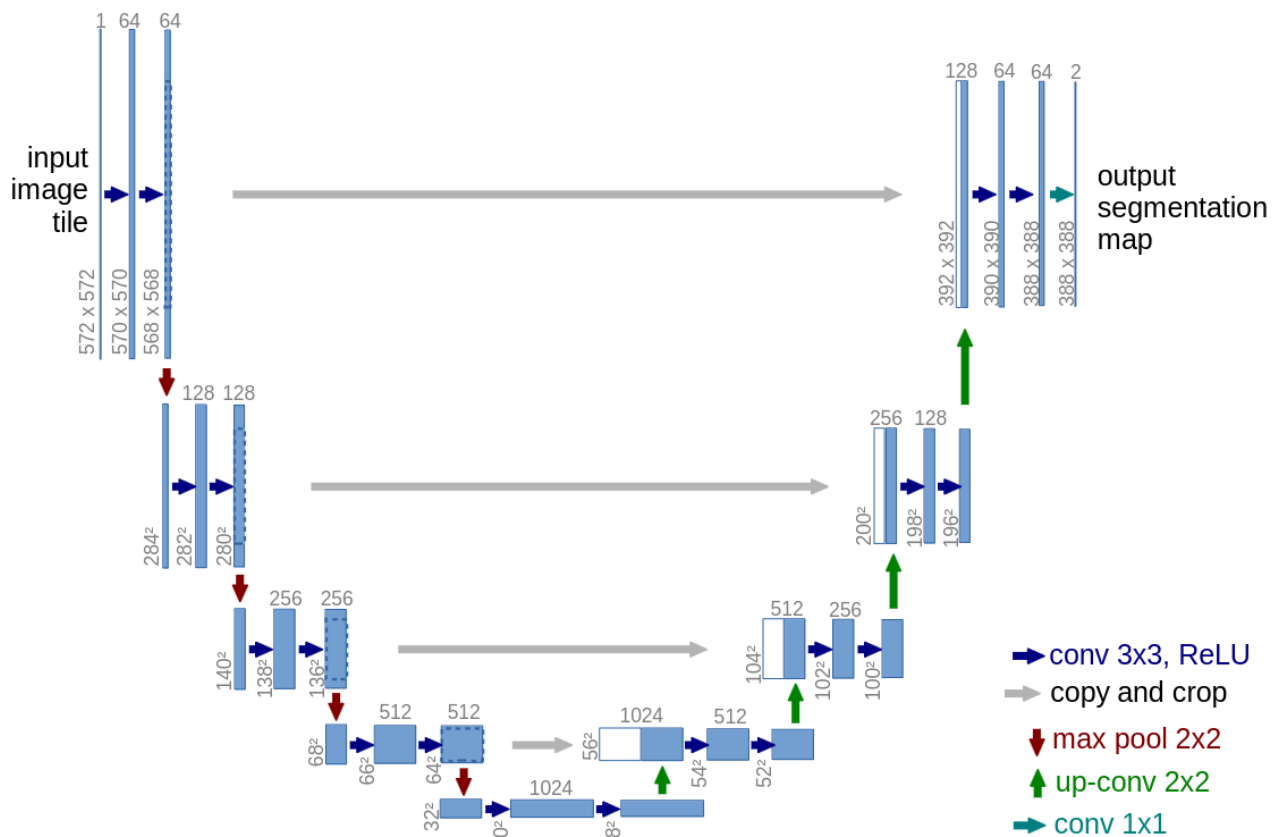


Figure 1: U-Net architecture

BatchNormalization usually follow the convolutional layers.

1.1 Variants

1.1.1 3D-U-Net

1.1.2 Graph-U-Net

1.1.3 H-DenseUnet

1.1.4 nnU-Net

1.1.5 UNet++

References

- [1] Özgün Çiçek et al. "3D U-Net: Learning Dense Volumetric Segmentation from Sparse Annotation". In: *CoRR* abs/1606.06650 (2016). arXiv: 1606.06650. URL: <http://arxiv.org/abs/1606.06650>.
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- [3] Fabian Isensee et al. “nnU-Net: Self-adapting Framework for U-Net-Based Medical Image Segmentation”. In: *CoRR* abs/1809.10486 (2018). arXiv: 1809.10486. URL: <http://arxiv.org/abs/1809.10486>.
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