

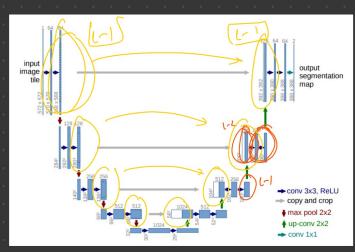
## **U-NET**



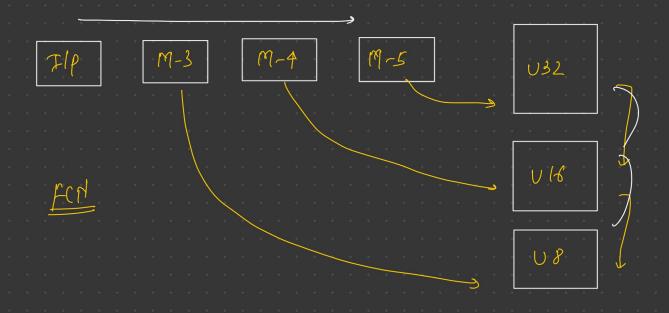
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Uset - is a tully convolutional neural Network (FCN)

- -> Contracting path (Enroder)
- -> Expanding posth (Decoder)
- → Skip connection
- -> very ten training samples.



why UNet is better than FCN?



- Unet directly connects encoder layer to decoder layer, passing fine details at multiple resolution
- I fell mainly upsamples the feature map back to its original shape but unet we try to nimer the contracting path
- (3) Find strugglos with small object, while unest preserve)
  fine-groined details.
- First wer trasposed convolution, while vnet used upsampled teatures using additional convolution.
- (5) IFON needs a large destaset while unest con work esticitively with small data. ( data augmentation)