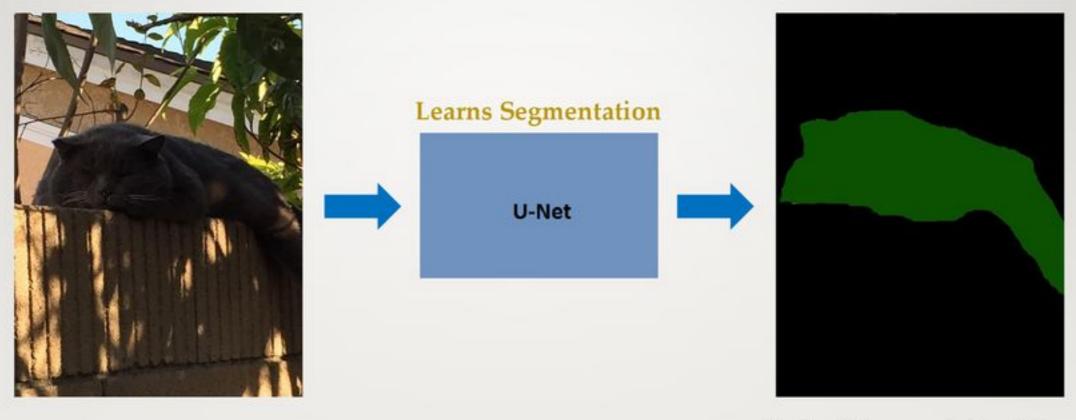
# U-Net: Convolutional Network for Segmentation

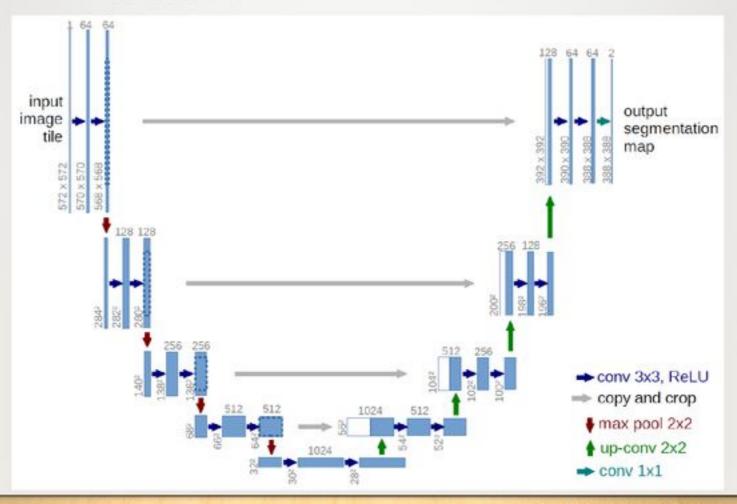
Presented by: Chanon Chantaduly

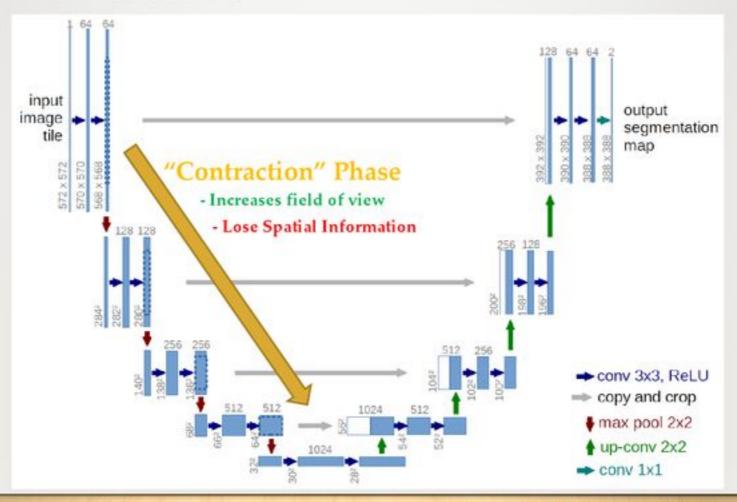
### What does a U-Net do?

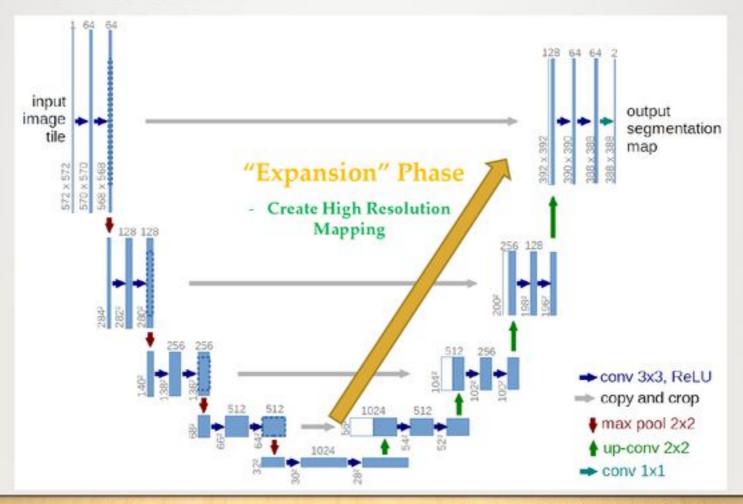


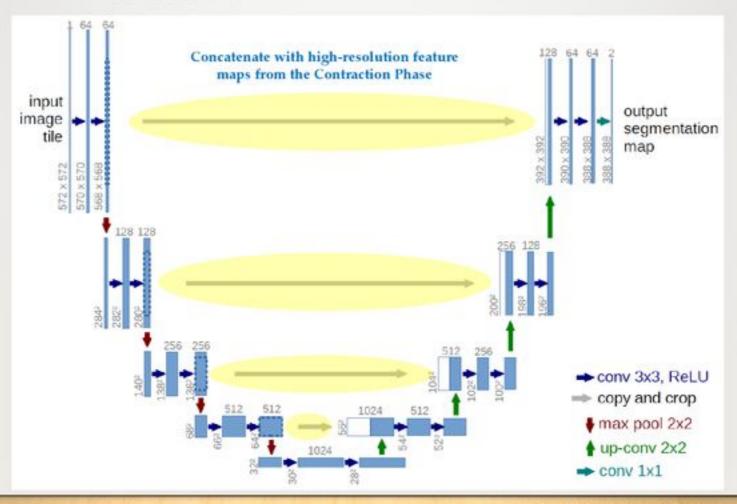
Input Image

Output Segmentation Map





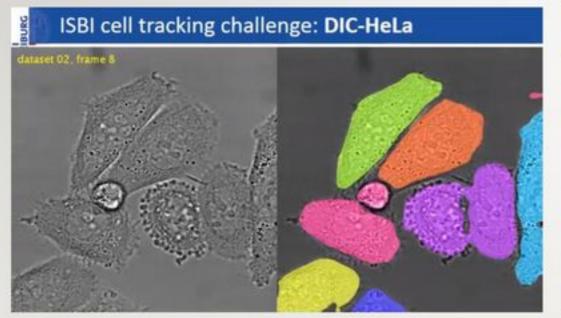


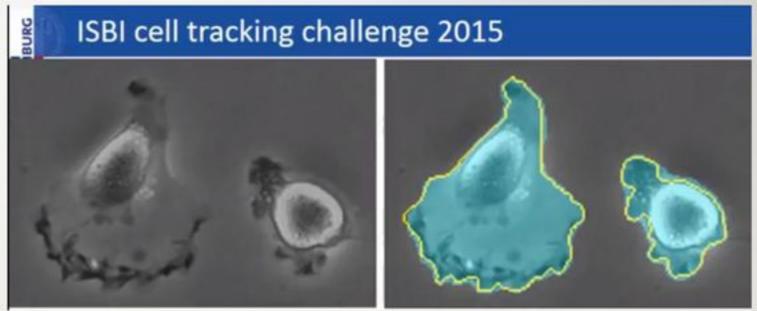


## **U-Net Summary**

- Contraction Phase
  - Reduce spatial dimension, but increases the "what."
- Expansion Phase
  - Recovers object details and the dimensions, which is the "where."
- Concatenating feature maps from the Contraction phase helps the Expansion phase with recovering the "where" information.

#### **Author Results**





Ronneberger et al. (2015) ISBI cell tracking challenge