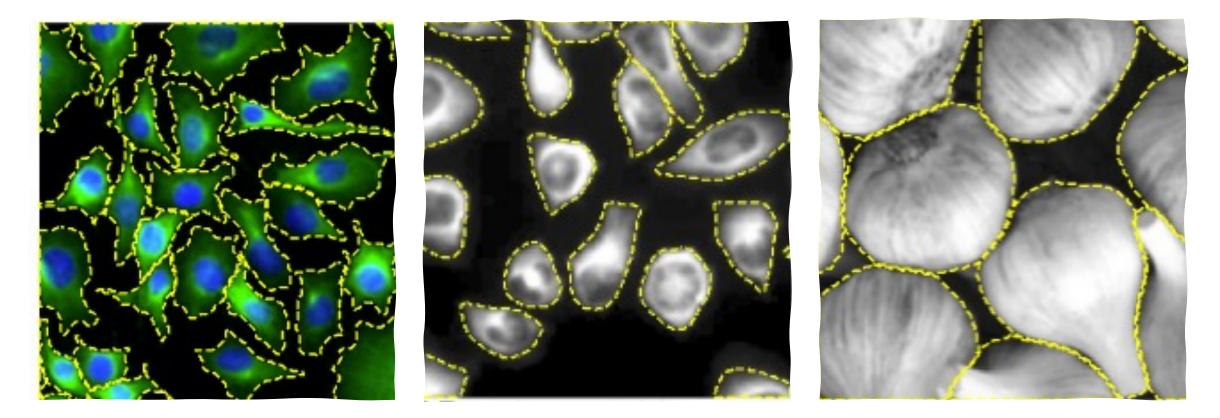


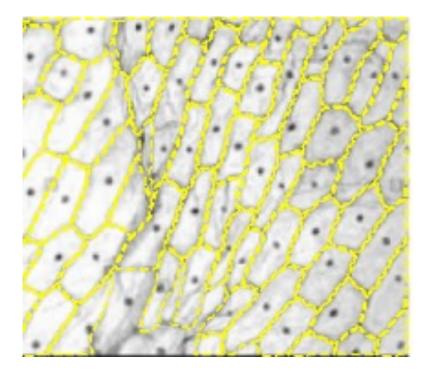
https://www.cellpose.org/

Generalist algorithm : Trained on >600 images, involving different kinds of microscopy

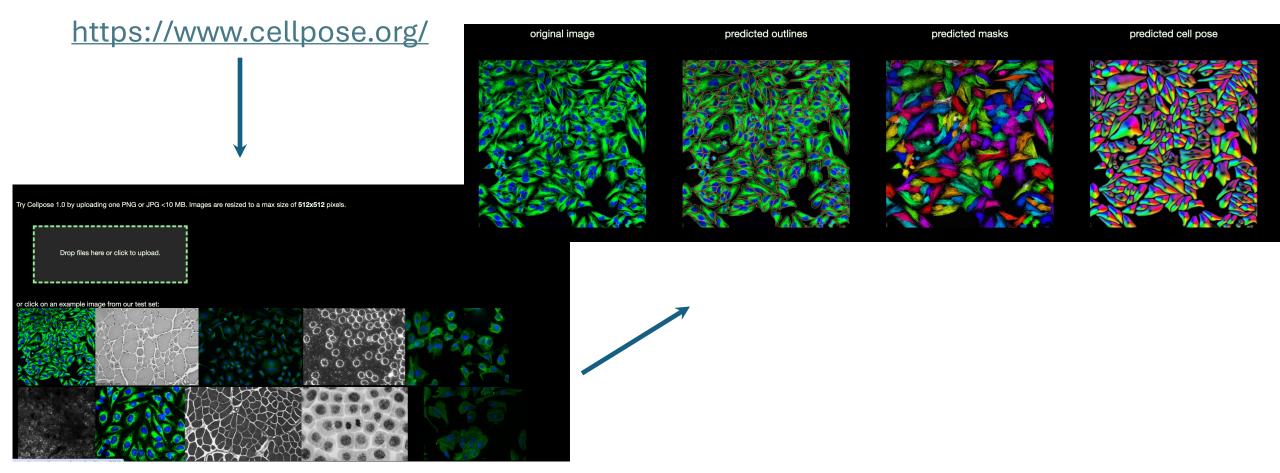
Generalist algorithm : Trained on >600 images, involving different kinds of microscopy



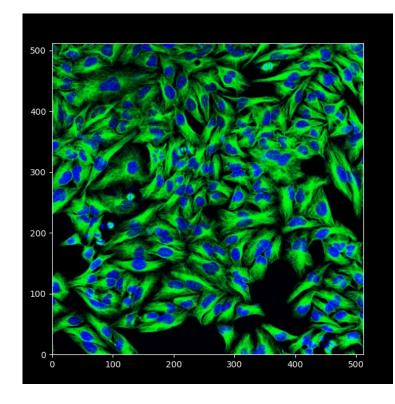
Can identify close objects: Uses process of simulated diffusion and tracing gradients



Straightforward GUI, also available web interface to test:



Written in Python, but masks outlines can fed into ImageJ





RESOURCES

Installation (Needs Python):

https://pypi.org/project/cellpose/ https://cellpose.readthedocs.io/en/latest/

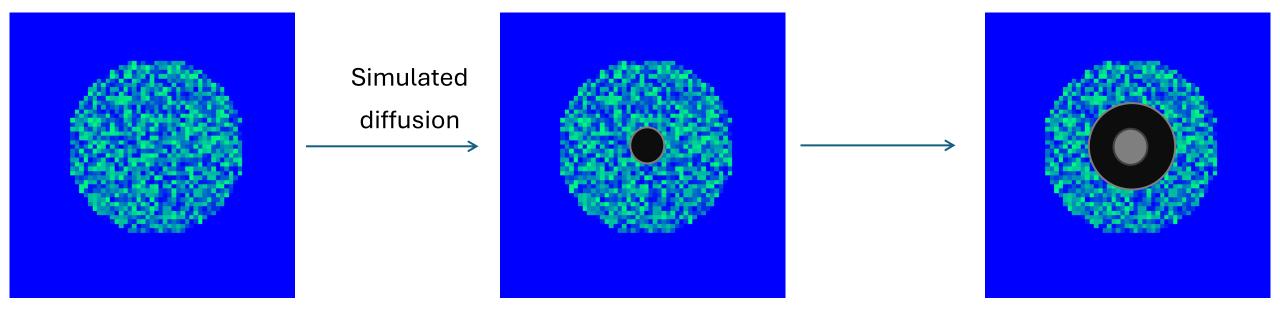
With pip:

pip install 'cellpose[gui]'/ pip install cellpose[gui]

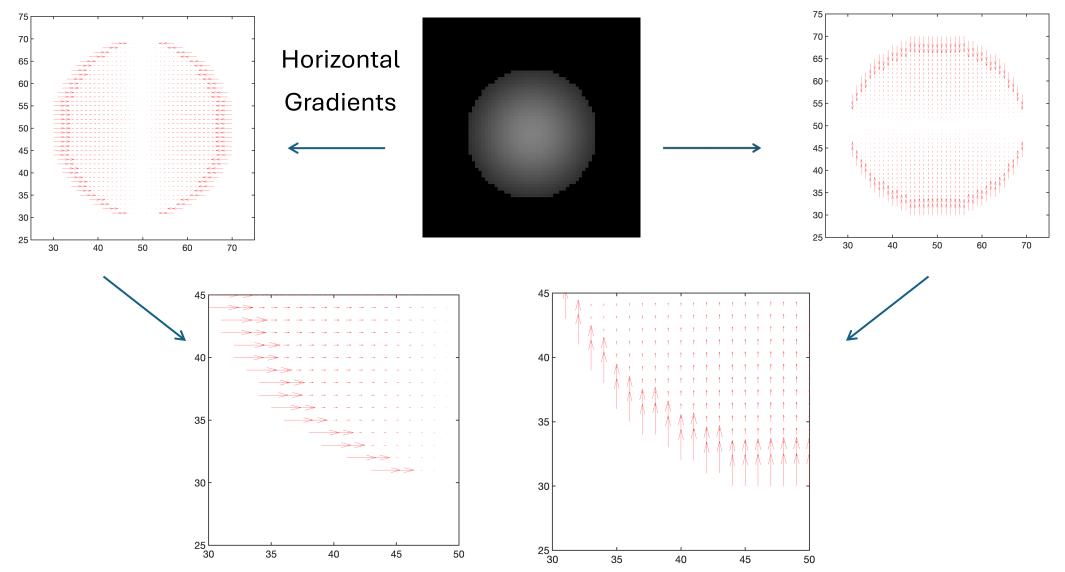
With conda:

conda create --name cellpose python=3.8

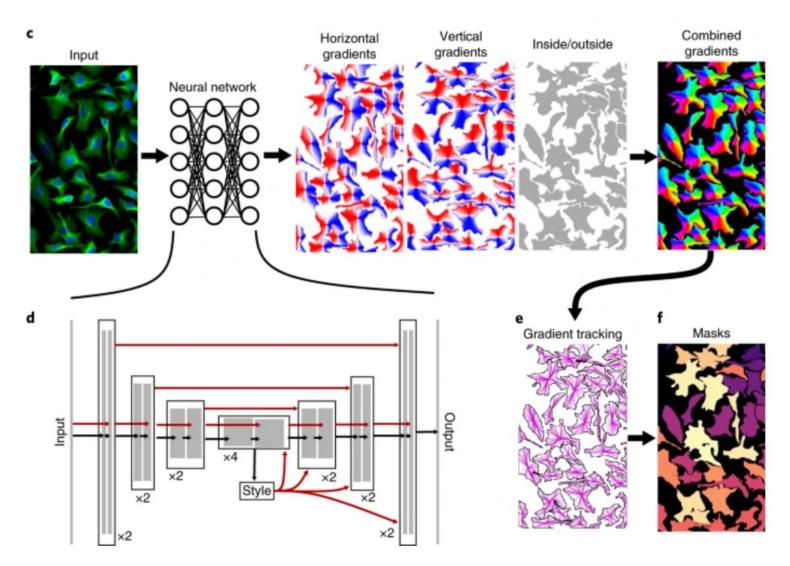
ALGORITHM



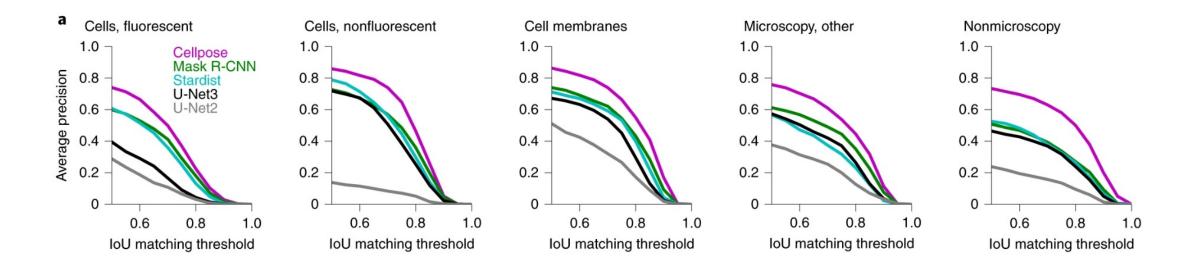
ALGORITHM



ALGORITHM



Benchmarks

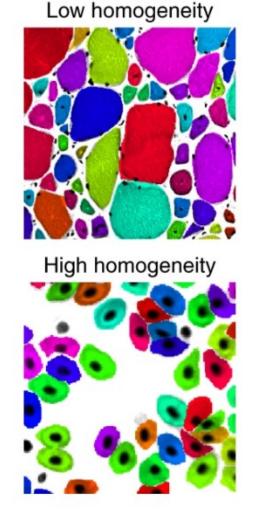


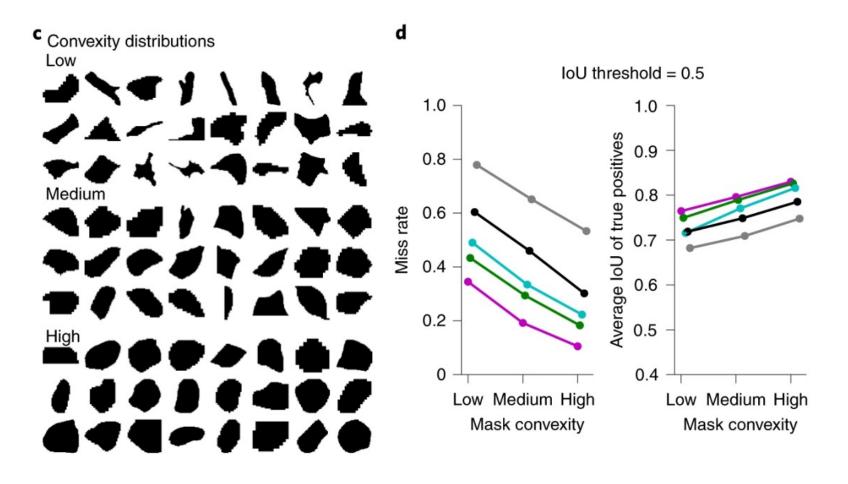
Precision Metric: True Positives Normalized by Positives, False Negatives, False Positives

Intersection over union Probability



Benchmarks





Plan Ahead

- Introduction to the GUI
- Using Jupyter Notebook/ Insights into Batch Processing