

Pretraining inputs

COCO-full | ImageNet
SimCLR | SupCon



Module-controlled transfer

Fixed Mask R-CNN
backbone-only replacement



Development controls

Matched random components
backbone LR $\times$ budget



Frozen primary test

Official LIVECell test
3 seeds | AP@3000

Dense protocol

maxDets response
cell-density strata

Conditional uncertainty

Paired image bootstrap
fixed models only

Supplementary diagnostic

Capped Cellpose
construction audit