Package Prototype

Fluorescent/Gray

Segmentation
↳ Numpy Array → OpenCV
Approach 1

Script A
Require image path

Pytorch Model → Table array
Approach 2

Script B

Script C

Pipeline
Supplement processing

Quantification
"Path".CSV
| Size

Statistical Analysis
Using R or Excel
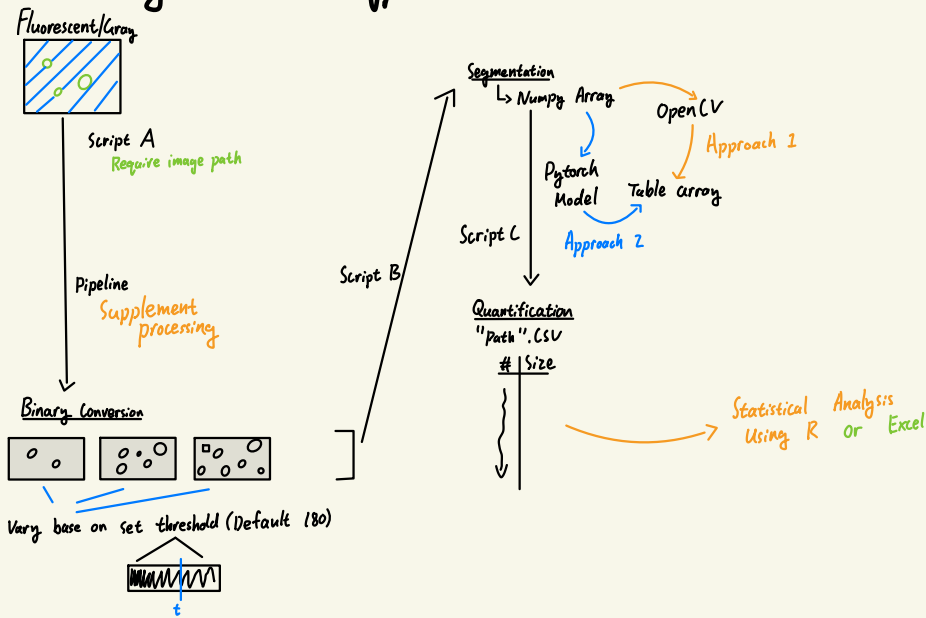
Binary Conversion

Vary base on set threshold (Default 180)

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Prototype:

Segment fluorescent into binary

Optimize Pytorch model (Need training) to identify droplets

Produce quantified values in a .csv (Good w/ Rstudio & Excel)

Supplement files to optimize

- Pipeline path prior to binary conversion → Can blur out the corner with legend
  Amplify fluorescent brightness

Can be worked on

Outside

- Trained A.I. Model