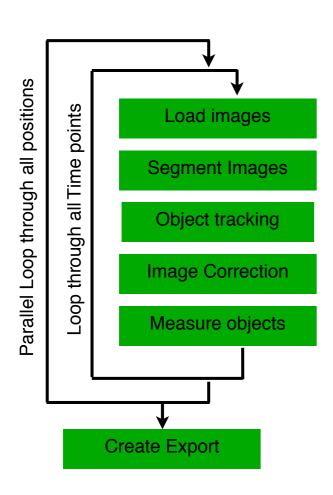
#### YeastQuant 7 to 9



#### All positions are analyzed in parallel

For an analysis with 10 XY positions and 15 Time points 10 parallel processes

Export Files created when All positions are processed

Load images

Save Frame\_xxx.mat

Load Frame\_xxx.mat

Object tracking

Save Data\_xxx.mat

Save Export.mat

if all Data

end

end

if all Frame

#### YeastQuant X

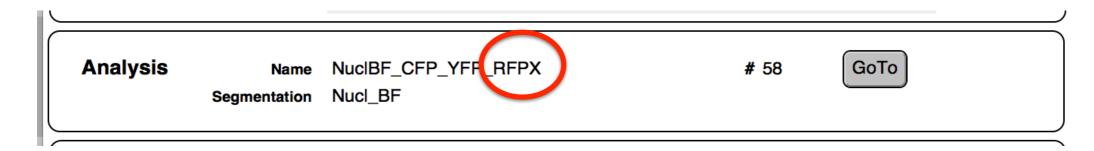


Export Files created as soon as all Data.mat from one experiment are present

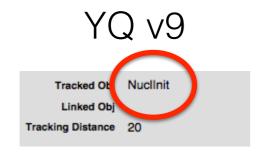
Database entries

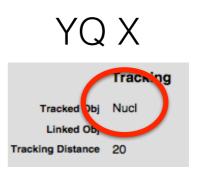
Same as before

BUT special analysis sheet



Main difference in analysis sheet:





## Analysis preparation for signaling server

Same as before! but:

Simpler call of prepare analysis Platform

VarCell = PrepareAnalysis([2125:2127]) 'Linux')

ExpNum number

removed one level of cell to structure to VarCell

YQ v9

VarCell{1}{1}.Analysis.xyz
VarCell{1}.Analysis.xyz

## Running the analysis on Signaling server

Start screen!
Start Matlab
load VarCell
Run ParallelFrameAnalysis

### Main function: ParallelFrameAnalysis

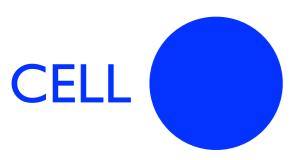
```
function ParallelFrameAnalysis(VarCell, OverWrite)
%Overwrite = -1: Prepare only the VarFrame data
%OverWrite = 0: Perform segmentation only on missing Frame.mat files
%OverWrite = 1: Delete Data.mat file and reprocess the export file
%OverWrite = 2: Delete Frame.mat file and re-do the segmentation
```

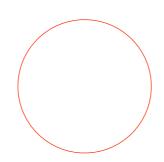
# Secondary object

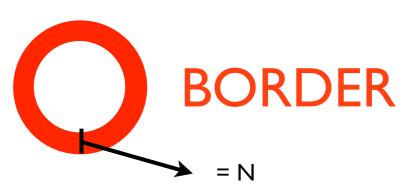
Border definition:

get border pixels

Size = N
Expand inside object by N # of pixels



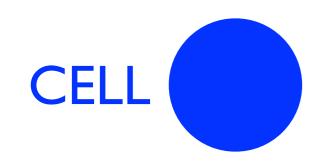


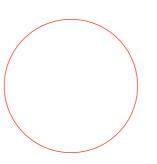


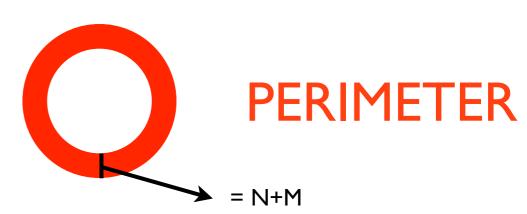
Perimeter definition

get border pixels

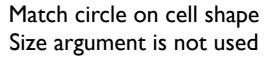
Size = N.M Expand inside object by N # of pixels Expand outside object by M # of pixels

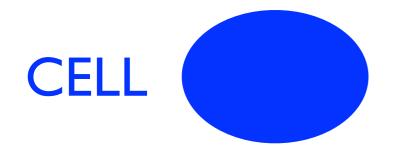


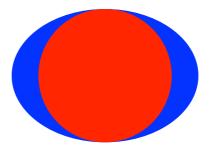




Circle definition







**CIRCLE** 

Intensity image not required for those object definitions

## Expand small objects

