Xml documentation

* Condition conditions of the experiment
  + Type – task type (lick, hand reach or pedal)
  + Depth
  + ImagingSamplingRate - Sampling rate of 2-photon
  + BehavioralSamplingRate - video sampling rate
  + BehavioralDelay - frames to drop from the behavioral data – since it starts filming before the 2-photon is recording
  + ToneTime - seconds from the beginning of the trial till the tone
  + Duration - duration of each trial
  + Injection - injected material – none, cno or saline
  + PelletPertubation - pellet perturbation – none, omissions (trials with no pellets) or different flavors
* NeuronesToPut not used at the moment
* TrialsToPutfor plotting specific trials, be careful, need to check this option
* analysisParams
  + indicativeNrns\_maxbinnum how many bins to consider when counting the averaged percentage of indicative neurons (results appear for each experiment in text file, Hadas copied them to xls). If marked by 3, then all following options will be considered: 1 bin, 2 bins and 3 bins.
  + indicativeNrnsMeanStartTime - when to start counting the averaged percentage of indicative neurons (results appear for each experiment in text file, Hadas copied them to xls). 0 is the tone.
  + indicativeNrnsMeanEndTime - when to end counting the averaged percentage of indicative neurons (results appear for each experiment in text file, Hadas copied them to xls). Time is relative to tone (for example, 8 is end of trial for 12 seconds trials with tone after 4)
  + successLabel - label type considered as success (important for all analysis types!) Can be “success” for regular analysis but can also be quinine (and then “failure” would be sucrose for example..)
  + failureLabel - label type considered as “failure” (important for all analysis types!)
  + prevcurrlabels2cluster - colors for prev-curr trajectories and 2D scatter plots)
    - cluster
      * name – success, color – blue for S-S, cyan for F-S
      * name – failure, color – purpule for S-F (I know it’s a typo, at the moment the code has this typo. Need to fix it) red for F-F
  + labels2cluster - colors for S-F trajectories and 2D scatter plots)
    - success – blue (the label considered as success!)
    - failure - red (the label considered as failure!)
  + includeOmissions - if we want to include omissions in the analysis. Need to check this option for true.
  + DetermineSucFailBy How to determine s/f
    - BySuc - suc is suc, rest is fail
    - ByFail - fail is fail, rest is suc
    - Both -suc is suc, fail is fail, rest is not used
  + slidingWinLen - analysis window length for svm accuracy
  + slidingWinHop - analysis window hop for svm accuracy
  + linearSVN - svm linear or not. Linear works well. Non-linear takes longer time
  + foldsNum - cross-validation folds
  + time2startCountGrabs - time to start counting grab attempts
  + time2endCountGrabs - time to stop counting grab attempts
  + startBehaveTime4trajectory - # seconds from the trial to start counting the first/last behavioral events. Currently not used.
  + endBehaveTime4trajectory - # seconds from the trial to end counting the first/last behavioral events. Currently not used.
  + NeuronesToPlot - for plotting specific neurons, be careful, need to check this option
* Visualization
  + bestpcatrajectories2plot - how many single trajectories to plot along with the averaged trajectory
  + visualization\_time4confplot - time stamps for which we want to plot the confusion matrix of accuracy, 0 is for the tone
  + visualization\_time4confplotNext - time stamps for which we want to plot the confusion matrix of accuracy on the next trial
  + visualization\_conf\_percent4acc - confidence interval used for svm accuracy with STE
  + viewparams1 view of trajectories – first element
  + viewparams2 - view of trajectories – second element
  + legend - where to place legend
  + labelsFontSize - font size of labels
  + startTime2plot -start plotting all images after 1.5 seconds
  + Events2plot - behavioral events to plot as histograms (for neurons, trials, accuracy..) for example – grab, lift, at mouth, lick