- Datavyu should open the file with the videos.

- Datavyu program should be able to run the script (ruby format script).

- Script should have comments describing the steps.

- Output file should be in Excel format, the file name should contain info from the first cell of the coding file – ID, visit number, procedure, type of output (raw or summary). E.g., 104\_06\_EXALONE\_raw.xlsx.

- There should be 2 scripts – one for EXALONE and one for RCHLOC procedures, but each script results in 2 files.

-Iryna should create a document with the name of the cells, possible content of the cells, and rules for cell duration.

- Each cell should be checked on timing (zero or negative durations are not accepted, check the nested structure, check that duration is equal or less than the norm specified in the accompanying file) and spelling.

- In the raw output file, include the info from the first cell (ID, initials, study phase, visit number, assessment, period, …), start time, end time, and total time for each cell.

- In the summary output file, include the identifying cells, device on or off, **all behaviors possible** in a same order (Iryna to specify the order of behaviors), frequency, normalized frequency (# of behaviors per minute of assessment), total duration (in seconds), percentage of time (divide total time of the behavior by the duration of the assessment). If some behaviors were not observed during the visit – place zero for all 4 columns.

- When the script checks for errors, if some are found, stop the output, and instead output the 104\_06\_EXALONE\_error.docx file describing all the errors with particular location (column, cell number).

- In the summary file, we would like to also have information combining different cells. For example, right contacts and left contacts overlapping in time – overlap, then overlap occurring in the same location (out of 9 or 3) – bimanual. Contact and visual attention to the toy (vis attn) overlapping. Need total duration and percent time of overlap.

- Make sure that ikey is working with Datavyu.