TIER_OPENAUTISM Protocol Documentation

original_data

- Experiments
  - Raw Data
    - Dicoms
  - Derivatives
    - Freesurfer output
    - First level analysis output
  - Quality Assurance
    - MRIQC output
- **Original_data_appendix**
  - Info about meta-data and experiments

documents

- The final paper
- Preliminary Reports
- The Read Me file
- **Full_appendix**

command_files

- Preprocessing
- First-level
- Second-level
- Dynamic document generator
  - Latex/R-markdown
- **Command_files_appendix**

**Code in anaconda-projects?*

analysis_data

- Open Autism data
  - SUBJECTS
  - SUMMARY_STATS
  - SUMMRY_DEMOG
  - MASKS
  - **Analysis_data_appendix**

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Subfolder: **analysis_data**

analysis_data

- **Analysis_Data_Appendix**
  - **Directory**
  - **Data_library** **(more details on last slide)**
- **SUBJECTS**

  >> SAX_OA_ID
    - Standard
    - Gorgolewski
    - ICA aroma
      - First_level_analyses
        - BOLD_data
          - Temporaldata_task_run-1.nii.gz
          - Temporaldata_task_run-2.nii.gz
          - Design_task_run-1.tsv
          - Design_task_run-2.tsv
        - Cope1_task_run_1.nii.gz
        - Tstat1_task_run_1.nii.gz
        - Zstat1_task_run_1.nii.gz

        (see next page)

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Subfolder: **analysis_data → SUBJECTS**

analysis_data

- **SUBJECTS**
  - **>> SAX_OA_ID**
    - >> <pipeline> >>
      - Second_level_analyses
        - Magnitude
          - Top50voxels_contrast.npy
          - SAX_OA_ID_MAG_SUM_STATS.csv
          - SAX_OA_ID_MAG_SUM_STATS_AVE_RUNS.csv
        - Lateralization
          - SAX_OA_ID_LAT_SUM_STATS.csv
          - SAX_OA_ID_LAT_COUNT_STATS.csv
          - SAX_OA_ID_LAT_SUM_STATS_AVE_RUNS.csv
        - Interregional_cor
          - InterregionCor_R_task_Run_1.npy
          - InterregionCor_Z_task_Run_1.npy
          - SAX_OA_ID_INTERREG_SUM_STATS.csv
          - SAX_OA_ID_INTERREG_SUM_STATS_final.csv

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Subfolder: **analysis_data → SUBJECTS**

analysis_data

- **SUBJECTS >> SAX_OA_ID**
  - >> <pipeline> >>
    - Second_level_analyses
      - Temporal_variance
        - SAX_OA_ID_TEMPONOISE_SUM_STATS.csv
        - SAX_OA_ID_TEMPONOISE_SUM_STATS_final.csv
      - Multivariate
        - MPVA_array_task_run_1.npy
      - MISC
        - <subject>_<task>_POSITION_ROI_STATS
        - Mean_roi_Temporal_Signal
          - Mean_temporal_signal_LAMY_task_run_1.txt
          - Mean_temporal_signal_LAMY_task_run_2.txt
          - .. Etc.
        - Individual_roi_masks
          - LAMY_indiv_roi_mask_task_run_1.nii
          - LDMPFC_indiv_roi_mask_task_run_1.nii
          - .. Etc.

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analysis_data

- **RUN_INFO**
  - **RUN_INFO.txt**: contains new subject ID, task, and new run #, with all details needed for metric extraction (TR, block design, and face conditions)
  - **Runs_LenientMotionFiltered.tsv**: list of valid runs (according to new run labels)
- **MASKS**
  - STANDARD_MASKS: contains all parcels we are using
  - LATERAL_MASKS: contains all parcels and were created by combining each roi with its respective roi in the opposite hemisphere FLIPPED.
- **SUMMARY_DEMOG**
  - Tomloc_subject_info_external.txt
  - Etc.
- **SUMMARY_STATS**
  - ALLSUBJECTS_MATRIX.csv: includes each subject-task as a row, and each metric outcome as a column.
  - General_Distributions: folder with all histograms of metrics

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analysis_data

- **Analysis_Data_Appendix**
  - **Data_library**

SAX_OA_ID	new subject name
MAG_<roi>	mean contrast magnitude of the top 50 voxels by t-value
LAT_<roi>	lateralization index based on voxel selection with p < 0.01 (left count - right count / left and right count)
INTERREGION_COR	z-transformed score of the mean pearsons R of correlation matrix relating each ROIs activation (excludes diagonal)
TEMP_VAR <roi>	temporal variance within subject, within roi, for FACE condition
<ALL OTHER VARIABLES IN DEMOG FILES>	