Allen SDK Visual Behavior Plotting Project

Data Access

- **get_data_object_type**(dataset_obj)
- **get_stimulus_name**(dataset_obj)
- **get_lick_timestamps(**dataset_obj)
- **get_reward_timestamps**(dataset_obj)
- **get_running_speed(**dataset_obj)
- **get_pupil_area(**dataset_obj)
- **get_dff_trace_timeseries(**dataset_obj)
- **get_all_cells_dff**(dff_traces_df)

Plotting Module

__init__

Rebasing

- rebase_trails(experimentObject)
- get_events(experimentObject, event_type=[all, omissions, image, change]
- get_changes(experimentObject,experiment_ids=[])
- get_omissions(experimentObject,experiment_ids=[])
- get_image_trial(experimentObject,experiment_ids=[])

Neural

- **plot_max_intensity_projection**(ophys_data_obj, ax = None)
- **plot_segmentation_masks**(ophys_data_obj, ax = None)
- **plot_segmentation_mask_overlay**(ophys_data_obj, ax = None)
- **plot_dff**(ophys_data_obj, cell_specimen_id = None, ax = None)

Behavior

- **plot_behavioral_streams**(type=['running_speed', 'licking', 'pupil area'], average=False]
- **plot_running_speed**(dataObject, ax=None)
- **plot_pupil(**dataObject, ax=None)
- **plot_licking(**dataObject, ax=None)
- **plot_lick_raster**(dataObject, ax=None)
- **plot_stimuli**(dataObject, ax=None)

Utility

- **average_dataframe_timeseries_values**(dataframe, values_column)
- **verify_dataset_type**(dataset_obj, expected_obj_type, expected_obj_name)
- **validate_value_in_dict_keys**(input_value, dictionary, dict_name)