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This document describes the functions of the python (3.10) codes used in the article: **Restoring interbrain prefrontal theta synchronization reverses social deficits**.

Download the entire folder, install all the used libraries using pip(we recommend using anaconda virtual environment), and run the code.

Sample Data are included within the analysis.

1. **Regress out analysis(Fig 4)**

Codes in this code are used to perform LFP-social neuron regress out analysis

* regressout

Code generates SDF from social/nonsocial/random neurons and regress them out from theta power LFP and calculate the synchrony between LFPs.

Run time : depending on the number of social neurons and sessions, usually 3~5 minutes per session.