PManalyzer 2.0

Quick Start Guide

New to PManalyzer? Use this guide to learn the basics.

Section bar
Go from left to right to specify your different preferences and settings for Input, Computation, Plot, Video and Output

On/Off button for sections
For each section, you can turn the settings panel on and off. For "Input" and "Computation" this requires to load .mat data of a previous analysis

Select settings
Save or load your current settings, so that you can go back to any state you want
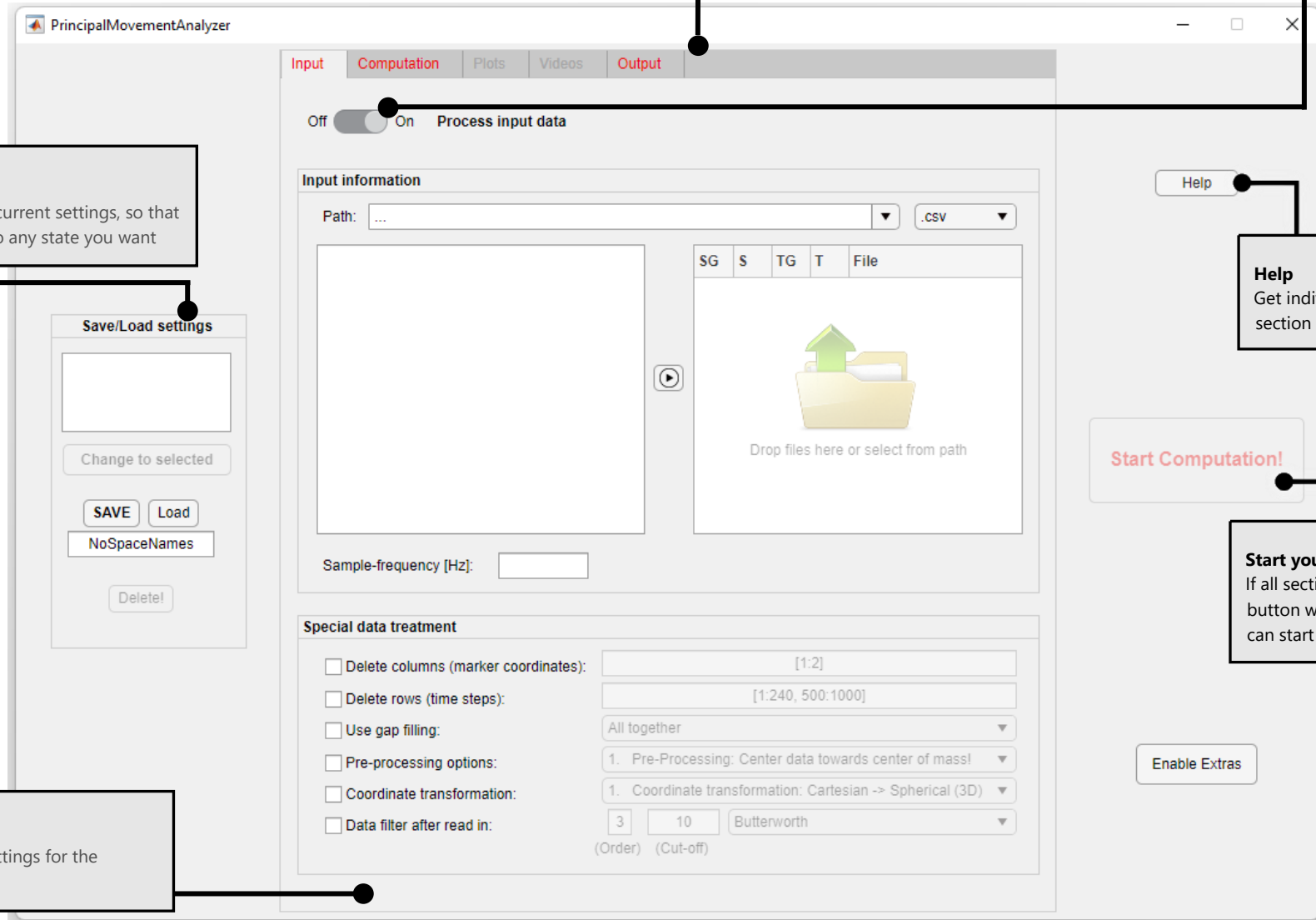
Help
Get individual help for each section

Start your computation
If all sections are set correctly the button will turn green and you can start the PCA

Settings panel
Specify different settings for the different sections

PrincipalMovementAnalyzer

Input | Computation | Plots | Videos | Output

Off ◯ On   Process input data

Input information

Path: [...]   [.csv ▼]

SG	S	TG	T	File

Drop files here or select from path

Sample-frequency [Hz]: [____]

Save/Load settings

Change to selected

SAVE | Load

NoSpaceNames

Delete!

Help

Start Computation!

Enable Extras

Special data treatment

☐ Delete columns (marker coordinates): [1:2]
☐ Delete rows (time steps): [1:240, 500:1000]
☐ Use gap filling: [All together ▼]
☐ Pre-processing options: [1. Pre-Processing: Center data towards center of mass! ▼]
☐ Coordinate transformation: [1. Coordinate transformation: Cartesian -> Spherical (3D) ▼]
☐ Data filter after read in: [3] [10] [Butterworth ▼]
  (Order) (Cut-off)
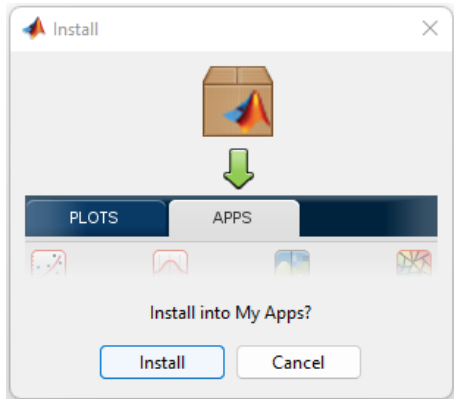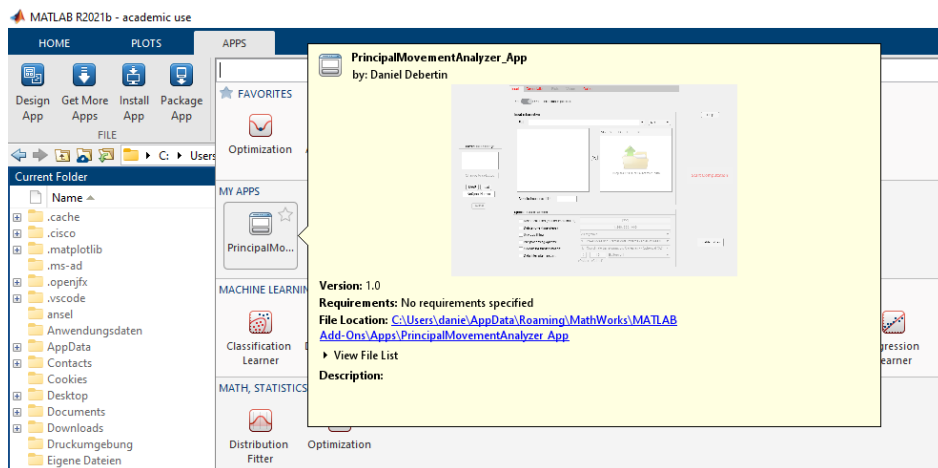
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Installation

Download and double click on PrincipalMovementAnalyzer_App.mlappinstall

Find it under APPS > MY APPS in MATLAB

Requirements

You will need to have an active **MATLAB** (The MathWorks, Natick, Massachusetts, United States) license and version **R2022b** or higher.
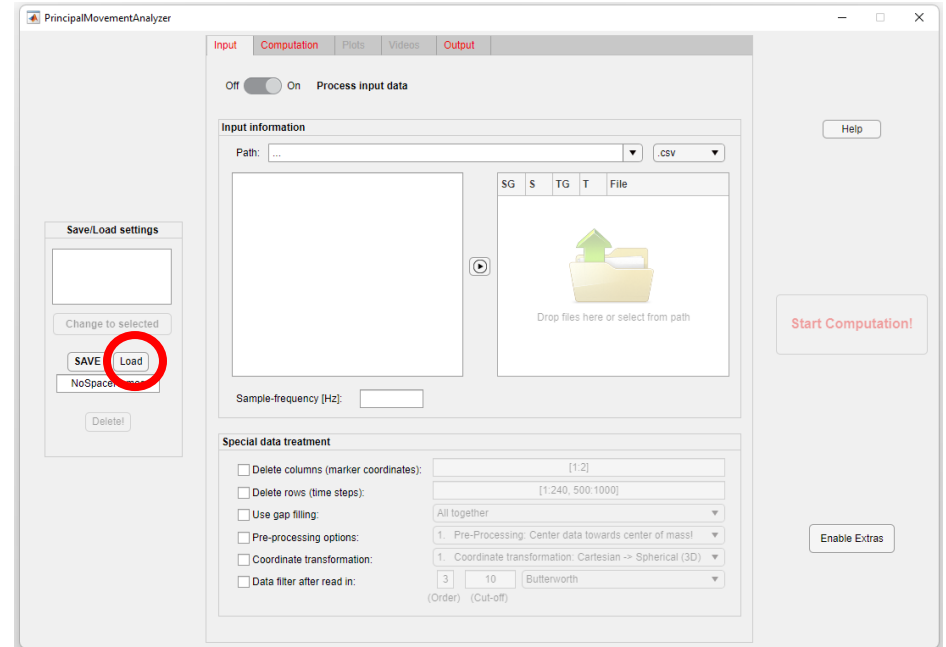
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Start your analysis

Option 1: Specify a path (1) and a file extension (2) for the files you would like to analyse. All files in this folder and its subfolders will be listed in (3). You can select them an proceed them for analysis by clicking on (4), so that they are displayed in (5).

Also set the sample frequency and possibly other data treatment functions (6).

Option 2: Drag and drop your files directly into area (5).
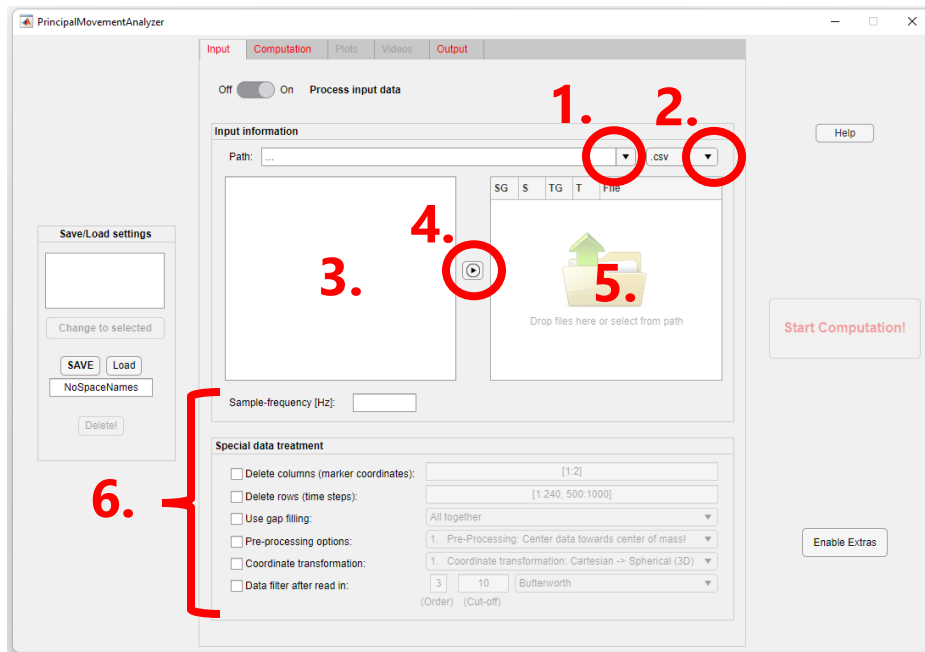
Option 3: Use a formerly saved settings file to go back to a previous analysis, which also loads the input path and files. Click on "Load" under settings and select a valid settings file.

Option 4: Use a formerly saved input .mat data file of a previous analysis. Turn off the process switch and specify the path with the data file.
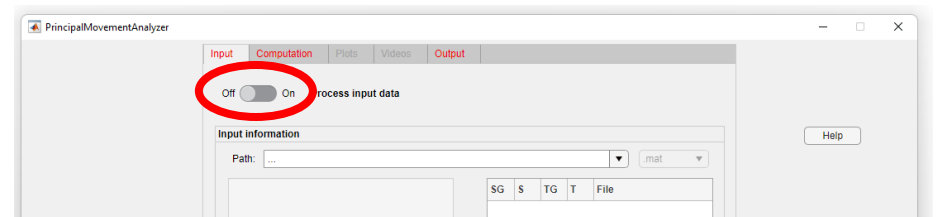
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Next steps with PManalyzer

- Select your preferences and settings for the tabs Computation, Plot, Videos and Output.
- Press "Start Computation" Button and follow printed text in the command Window of your MATLAB instance.
- Find your results in the specified output folder.

For detailed manual and example data visit:
https://www.uibk.ac.at/isw/forschung/research_teams/neurophysiology/pm_analyzer/software.html

Send us feedback

Something went better or worse than expected, you found a bug or have a suggestion for a new feature? Thanks a lot for contacting

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