

Table Of Contents

Table Of Contents	1
eegfiltica	2
CRNL	3



Published on *elan* (<http://elan.lyon.inserm.fr>)

[Home](#) > [Printer-friendly PDF](#) > [Printer-friendly PDF](#)

eegfiltica

- **Description**

Applies a decomposition matrix obtained after ICA (performed in Matlab for example) to an EEG file and creates a new (filtered) EEG file. This is used to remove some ICA components from an EEG file (e.g., eye blinks).

- **Usage**

```
eegfiltica myeegfilein.eeg matrixfile.xml myeegfileout [--keep] component_1 component_2 ... component_n
```

with :

- myeegfilein.eeg : input EEG file to process (with extension).
- matrixfile.xml : XML transform matrix file (with extension), including information on matrix size (see format below).
- myeegfileout : EEG file created after the matrix has been applied (without extension). Number of channels = number of components (matrix size) + unused EEG channels (those not involved in the matrix estimation in matlab).
- option :
 - keep : flag used to keep the following components and to suppress all others. If omitted, the listed components are removed and the others are kept.
- component_1 : index of the 1st component to suppress (or keep if --keep is used).
- ...
- component_n : index of the nth component to suppress (or keep if --keep is used).

- **Fields of parameter file and example**

- **Examples**

- **Comments**

- **Current version**

1.04 23-09-2010

- **History**

- 1.00 19-02-2008 (PEA) : 1st version.
- 1.01 07-04-2008 (PEA) : add --keep option to keep components list instead of remove it.
- 1.02 24-07-2008 (PEA) : correction for --keep option (use number of components).
- 1.03 31-08-2009 (PEA) : correction for large files (> 2 GB).
- 1.04 23-09-2010 (PEA) : update to use cmake and free release of Elan. Remove static allocation for reading EEG file header.

- **Files**

\$ELANPATH/bin/eegfiltica

- **See also**

[eegcomponent](#) ^[1], [eegproject](#) ^[2], [matrix2p](#) ^[3]

Lyon Neuroscience Research Center - Brain Dynamic and Cognition team

CRNL



Source URL: <http://elan.lyon.inserm.fr/?q=eegfiltica>

Links:

[1] <http://elan.lyon.inserm.fr/?q=eegcomponent>

[2] <http://elan.lyon.inserm.fr/?q=eegproject>

[3] <http://elan.lyon.inserm.fr/?q=matrix2p>