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## eegproject

- **Description**

Applies a matrix to an eeg file and creates a new (projected) eeg file. This is a linear transformation of the original eeg signal which leads to a new eeg signal. This is used to obtain the time course of the components obtained after an ICA is performed (by a matlab program).

- **Usage**

eegproject myeegfilein.eeg matrixfile.xml myeegfileout  
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 transform).

- **Fields of parameter file and examples**

- **Example**

- **Comments**

- **Current version**

1.03 03-01-2011

- **History**

- 1.00 15-02-2008 (PEA) : 1st version.
- 1.01 26-02-2008 (PEA) : changes component names and numbers.
- 1.02 23-09-2010 (PEA) : update to use cmake and free release of Elan. Remove static allocation for reading EEG file header.
- 1.03 03-01-2011 (PEA) : minor modification (change in description).

file header.

- **Files**

\$ELANPATH/bin/eegproject

- **See also**

[eegfiltica](#) <sup>[1]</sup>, [matrix2p](#) <sup>[2]</sup>

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**CRNL**



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

**Links:**

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

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