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Electrode definition in ELAN (elec.dat)

ELAN is provided with a long list of electrodes (10/20 and extended systems) that cover most of the classically used electrode montages. The users can extend this list. The characteristics of the electrodes are specified in a text file created when installing ELAN: **elec.dat** in the directory **\$ELANPATH/elec** (for example **/usr/local/Elan/elec**). Each entry of this file corresponds to a particular electrode with a number, a name and spherical coordinates (theta and phi) on a unit sphere mimicking the head (see figure below).

Within ELAN, all electrodes will be identified by their number (according to their rank in *elec.dat*) and/or names.

This **elec.dat** file is thus critical and should be modified with care.

We highly recommend not to delete any existing entry in *elec.dat*, but only to add new entries at the end of the file with a similar format.

The file **elec.dat** has the following structure:

column 1: electrode number, columns 2, 3: theta, phi in degrees, column 4: electrode name

1 90.0 252.0 O1

2 90.0 288.0 O2

3 90.0 216.0 T5

4 63.1 223.1 P3

5 45.0 270.0 Pz

6 63.1 316.9 P4

7 90.0 324.0 T6

8 90.0 180.0 T3

9 45.0 180.0 C3

10 0.0 0.0 Cz

11 45.0 0.0 C4

12 90.0 0.0 T4

13 90.0 144.0 F7

14 63.1 136.9 F3

15 45.0 90.0 Fz

16 63.1 43.1 F4

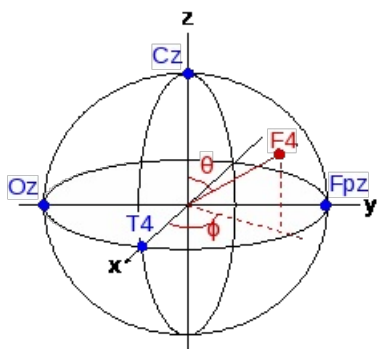
17 90.0 36.0 F8

18 90.0 108.0 Fp1

19 90.0 72.0 Fp2

20 76.5 219.3 P5

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[1]

Lyon Neuroscience Research Center - Brain Dynamic and Cognition team

CRNL



Source URL: http://elan.lyon.inserm.fr/?q=elec_definition

Links:

[1] http://elan.lyon.inserm.fr/sites/default/files/ELAN_elec_dat_axis.gif