How to read 3D-Coordinates

Electrode Coordinates can be expressed either as XYZ-Coordinates or as Theta/Phi-Coordinates. Our graphic shows the most common usage of both systems.

In the XYZ system, the Z-axis runs through the Vertex, the X-Axis points to the right and the Y-Axis to the front.

In the Theta/Phi-System, Theta is the angle between the Z-Axis and the connecting line from the origin of the coordinates and the electrode position. In the left hemisphere Theta is less than zero, in the right hemisphere it is larger.

Phi is the angle between

1. the projection of the connecting line from the origin of the coordinates and the electrode position onto the XY-plane

and

2. the X-axis.

Phi is greater zero in the front right and rear left quadrant and smaller zero in the front left and the rear right quadrant.

On the following pages exemplary coordinates of the most important electrode positions are given as XYZ- and Theta/Phi-Coordinates.

ASCII-Files of these values can be downloaded from www.easycap.de