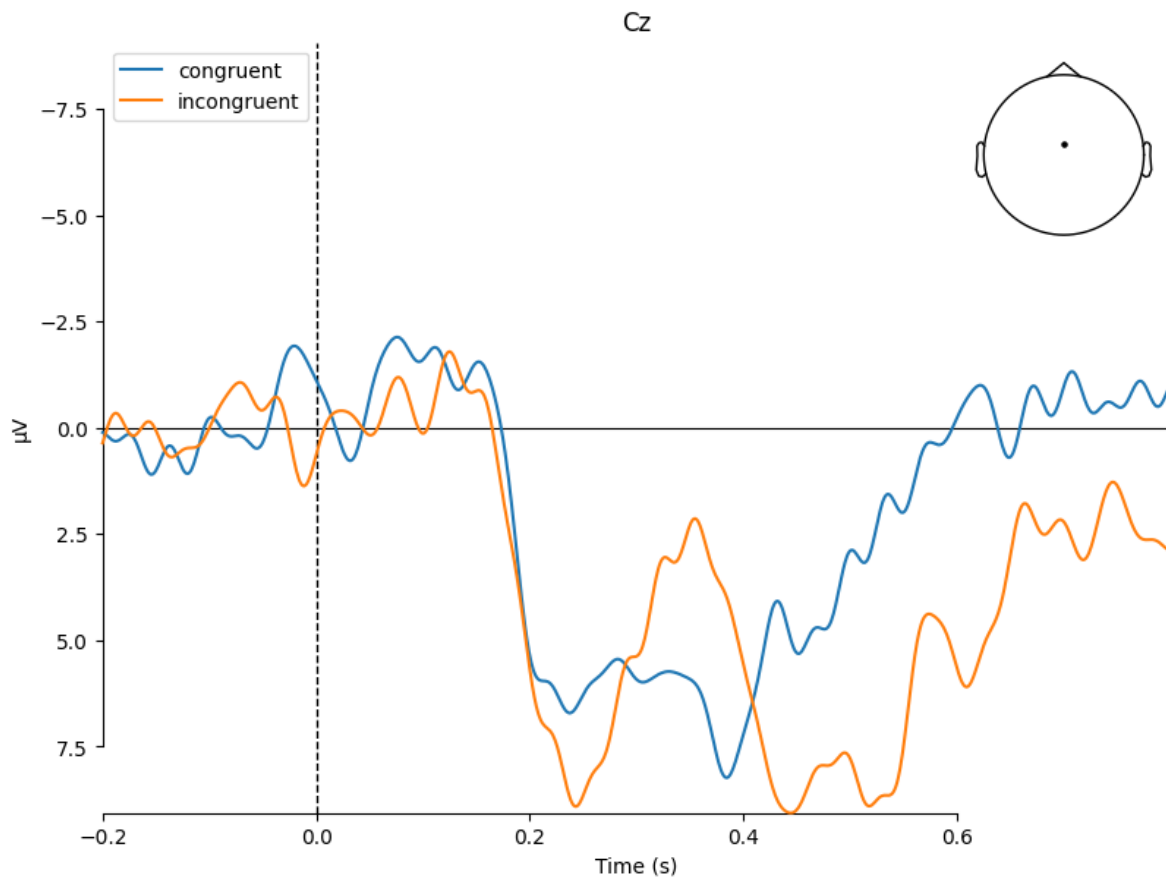# ERP exercise raport

To decide on a time frame I've looked at evokeds on the Cz electrode to see where the signal is changing the most after the stimuli. For this exercise I've picked **tmin=01** and **tmax=0.6**

Instead of picking a one electrode to focus on I decided on a more exploratory approach – looping over all the electrodes to find out which one had the most statistical relevance in the already decided time window. Lowest p-values are prevalent mostly in the frontal and central area with **F8, FC3, Cz, FC4 and F3** where p<0.05.

	Electrode	T-test stats	P-value
18	F8	-2.195738	0.029267
3	FC3	-2.188451	0.029801
21	Cz	-2.134581	0.034019
19	FC4	-2.082334	0.038591
1	F3	-1.974201	0.049742
17	F4	-1.802780	0.072936
20	FCz	-1.697455	0.091174
14	CPz	-1.655490	0.099401
13	Pz	-1.654942	0.099513
29	O2	-1.570554	0.117875
4	C3	-1.531279	0.127289
16	Fz	-1.399865	0.163111
0	FP1	-1.354407	0.177142
24	P4	-1.323683	0.187127
28	PO4	-1.322301	0.187586
11	O1	-1.280497	0.201861
6	P3	-1.210472	0.227534
10	PO3	-0.981081	0.327744
15	FP2	-0.954348	0.341066
26	P10	-0.818007	0.414331
8	P9	0.818005	0.414333
2	F7	-0.780686	0.435915
23	C6	-0.687364	0.492654
22	C4	-0.637096	0.524795
12	Oz	-0.599151	0.549754
5	C5	-0.589069	0.556483
9	PO7	0.550126	0.582850
27	PO8	-0.317787	0.750980
7	P7	0.304988	0.760694
25	P8	0.060927	0.951479