

**Supplementary Table S1.** Brain regions showing the main effects of Consistency collapsed across Perspective (Self and Other).

Region	Number of voxels	<i>T</i>	<i>p</i> cluster corrected (FWE)	Montreal Neurological Institute co-ordinates		
				x	y	z
<b><i>a) Inconsistent &gt; Consistent</i></b>						
Medial thalamus extending into left thalamus	149	6.73	0.124	-3	-22	13
				-6	-34	10
				-18	-25	19
<b>Left IPL (angular gyrus) extending into IPS</b>	<b>327</b>	<b>4.81</b>	<b>&lt; 0.01</b>	<b>-45</b>	<b>-58</b>	<b>34</b>
				<b>-33</b>	<b>-67</b>	<b>49</b>
				<b>-36</b>	<b>-52</b>	<b>31</b>
Medial caudate nucleus	120	4.75	0.229	-6	17	-5
				6	20	4
				-18	26	1
Right posterior ITG	49	4.39	0.837	54	-55	-20
				60	-61	-11
Right subgyral primary motor / somatosensory	64	4.37	0.680	30	-22	37
				21	-16	43
				27	-22	46
Right IFG / MFG	44	4.34	0.882	42	14	31
				45	20	37
Right cerebellum	68	4.21	0.637	12	-82	-32
				24	-76	-32
				15	-76	-26
Right IPL	73	3.86	0.585	48	-49	52
Right SPL extending into occipital cortex	71	3.55	0.605	33	-64	55
				36	-67	31
<b><i>b) Consistent &gt; Inconsistent</i></b>						
No suprathreshold clusters						

Note: Only regions surviving a voxel-level threshold of  $p < 0.005$  uncorrected and 40 voxels are reported. Subpeaks more than 8 mm from the main peak in each cluster are listed.

Bold indicates regions that survive the FWE cluster-corrected threshold at  $p < 0.05$ .

Abbreviations as Table 1.

**Supplementary Table S2.** Brain regions showing the main effects of Perspective collapsed across Consistency (Consistent and Inconsistent).

Region	Number of voxels	<i>T</i>	<i>p</i> cluster corrected (FWE)	Montreal Neurological Institute co-ordinates		
				x	y	z
<b><i>a) Self &gt; Other</i></b>						
<b>Medial parietal (precuneus) extending into cuneus, calcarine and lingual gyri</b>	<b>1238</b>	<b>5.49</b>	<b>&lt; 0.01</b>	<b>9</b>	<b>-82</b>	<b>37</b>
				<b>-18</b>	<b>-70</b>	<b>10</b>
				<b>-12</b>	<b>-70</b>	<b>4</b>
Left TPJ	87	5.01	0.290	-54	-55	28
Right SFG / SMA	132	4.93	0.082	21	2	64
				21	20	49
				9	-1	61
<b>Left MFG/SFG/PMd</b>	<b>162</b>	<b>4.75</b>	<b>&lt; 0.05</b>	<b>-45</b>	<b>-1</b>	<b>49</b>
				<b>-24</b>	<b>8</b>	<b>49</b>
				<b>-18</b>	<b>-4</b>	<b>55</b>
Left posterior MTG	54	4.48	0.673	-51	-43	-11
				-54	-49	-2
Left middle orbital gyrus	49	4.34	0.744	-33	50	-5
				-30	47	4
				-42	47	4
Right middle IFG	63	4.11	0.548	57	11	7
Left anterior MFG	43	3.96	0.826	-30	55	46
				-39	26	44
				-33	23	28
Right IPL (supramarginal gyrus)	62	3.63	0.562	54	-34	37
				42	-37	43
				39	-40	52
<b><i>b) Other &gt; Self</i></b>						
Left medial temporal (subgyral)	41	4.05	0.851	-27	-52	13

Note: Only regions surviving a voxel-level threshold of  $p < 0.005$  uncorrected and 40 voxels are reported. Subpeaks more than 8 mm from the main peak in each cluster are listed.

Bold indicates regions that survive the FWE cluster-corrected threshold at  $p < 0.05$ .

Abbreviations as Table 1

**Supplementary Table S3.** Brain regions showing an interaction between Consistency and Perspective.

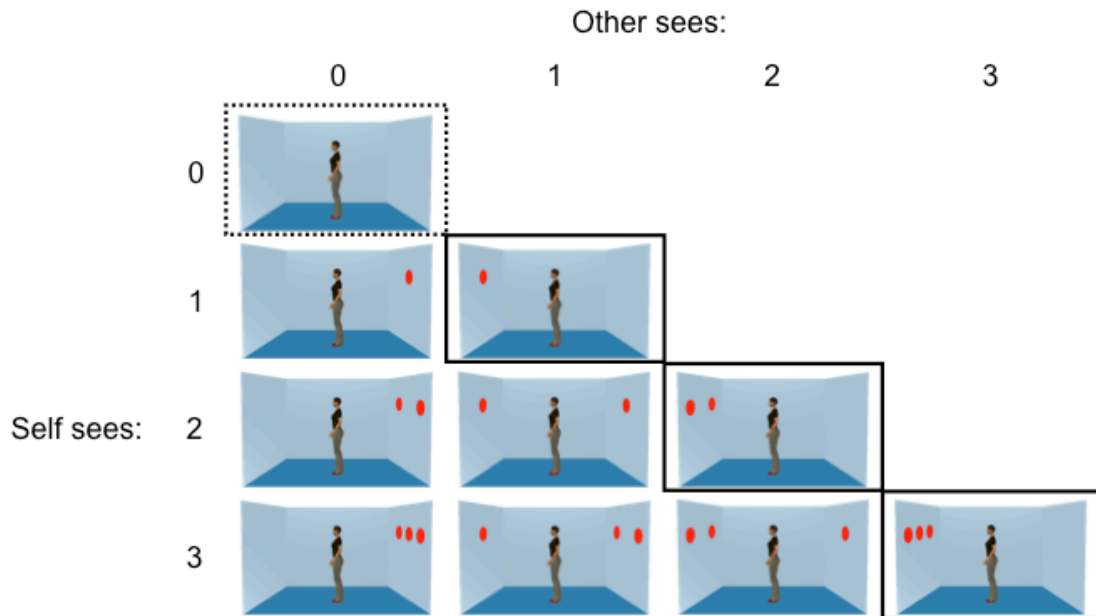
Region	Number of voxels	<i>T</i>	<i>p</i> cluster corrected (FWE)	Montreal Neurological Institute co-ordinates		
				x	y	z
<b><i>a) Interaction 1: (IO &gt; CO)</i></b>						
<b><i>&gt; (IS &gt; CS)</i></b>						
Right middle IFG	47	4.92	0.862	45	8	10
Right posterior IPS extending into angular gyrus	85	4.16	0.484	36	-61	43
				51	-58	40
Left posterior IFG adjacent to PMv	39	3.86	0.924	-54	29	22
				-42	20	22
				-36	8	22
Right posterior MFG (dlPFC)	12	3.82	1.000	51	23	40
Left middle postcentral gyrus	27	3.79	0.981	-51	-13	19
				-42	-1	19
Left anterior IFG	10	3.65	1.000	-51	35	-11
Left temporal pole	15	3.61	0.999	-48	11	-20
Left posterior MFG (dlPFC)	20	3.35	0.995	-42	14	49
				-36	8	46
<b><i>b) Interaction 2: (IO &lt; CO)</i></b>						
<b><i>&lt; (IS &lt; CS)</i></b>						
No suprathreshold clusters						

Note: Regions surviving a voxel-level threshold of  $p < 0.005$  uncorrected and 10 voxels are reported. A voxel extent of 10 voxels is lower than reported in all other contrasts (where it was 40). We reduced the voxel extent in this way as part of an exploratory analysis.

Subpeaks more than 8 mm from the main peak in each cluster are listed.

Abbreviations: C = Consistent, I = Inconsistent, O = Other and S = Self.

Abbreviations as Table 1.



**Supplementary Figure S1.** Disc configurations across consistent (bold frame), inconsistent (no frame) and filler trials (dashed frame). On half of the trials the avatar was facing the left wall while on the other half of the trials the avatar was facing the right wall (for simplicity, however, only the left-facing avatar is depicted above). Disc configurations of the consistent perspective condition were presented twice as often as discs configurations of the inconsistent perspective condition in order to yield an equal total number of consistent and inconsistent perspective trials. On filler trials no one saw any discs.