

version 1.0 release 10-Nov-2020

## Subject: my\_brain

Sex: Male Age: 35.0

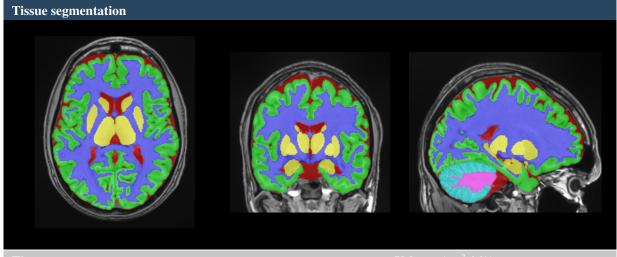
Report date: 28-Jan-2022

Image orientation: Neurological

Scale factor: 0.88 SNR: 32.32

Quality control: A





Tissue		
White Matter (WM)	553.02 / 34.264	[31.670, 35.784]
Grey Matter (GM)	854.73 / 52.958	[51.837, 55.267]
Subcortical GM	53.36 / 3.306	[3.012, 3.474]
Cortical GM	668.08 / 41.393	[40.656, 43.873]
Cerebellar GM	133.28 / 8.258	[7.148, 8.916]
Cerebro Spinal Fluid (CSF)	186.04 / 11.527	[9.013, 14.206]
Brain (WM+GM)	1407.75 / 87.222	[84.551, 89.655]
Intracranial Cavity (IC)	1613.98 / 100.000	[100.000, 100.000]

All the volumes are presented in absolute value (measured in cm<sup>3</sup>) and in relative value (measured in relation to the IC volume).

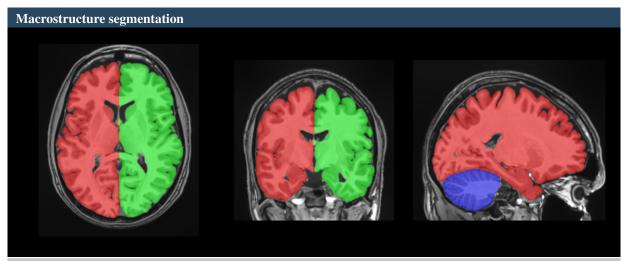
The quality control evaluates the input image quality after preprocessing. A = good, B = moderate (i.e., the output requires human verification) and C = bad (i.e., the output should not be used).

The Asymmetry Index is calculated as the difference between right and left volumes divided by their mean (in percent).

 $All\ the\ result\ images\ are\ located\ in\ the\ MNI\ space\ (neurological\ orientation).$ 

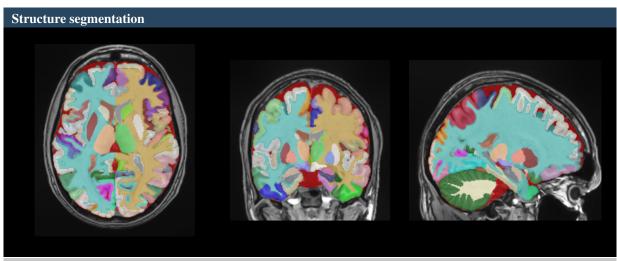
Values between brackets show expected limits (95%) of normalized volume in function of sex and age for each measure for reference purpose. Values outside the limits are highlighted in red.

Pierrick Coupé, Boris Mansencal, Michaël Clément, Rémi Giraud, Baudoin Denis de Senneville, Vinh-Thong Ta, Vincent Lepetit, José V Manjon, *AssemblyNet: A large ensemble of CNNs for 3D whole brain MRI segmentation*, NeuroImage, Elsevier, 2020, 219, pp.117026 PDF



Structure	Total	Right	Left	Asymmetry
				(%)
Cerebrum	1244.24 / 77.092	620.05 / 38.417	624.19 / 38.674	-0.6657
	[74.615, 79.890]	[37.318, 40.007]	[37.274, 39.925]	[-1.173, 1.353]
Cerebrum WM	522.80 / 32.392	259.14 / 16.056	263.66 / 16.336	-1.7299
	[29.835, 33.940]	[14.893, 16.960]	[14.926, 17.009]	[-2.135, 1.437]
Cerebrum GM	721.45 / 44.700	360.91 / 22.362	360.53 / 22.338	0.1054
	[43.904, 47.115]	[21.971, 23.612]	[21.900, 23.556]	[-1.136, 1.863]
Cerebellum*	149.60 / 9.269	74.57 / 4.620	75.02 / 4.648	-0.6044
	[8.019, 10.060]	[4.030, 5.069]	[3.983, 4.997]	[-1.955, 5.020]
Cerebellum WM	30.22 / 1.873	15.11 / 0.936	15.11 / 0.936	0.0290
	[1.586, 2.113]	[0.792, 1.070]	[0.790, 1.051]	[-4.088, 5.930]
Cerebellum GM	119.37 / 7.396	59.46 / 3.684	59.92 / 3.712	-0.7648
	[6.366, 8.009]	[3.217, 4.054]	[3.160, 3.975]	[-1.985, 5.367]
Vermis	13.91 / 0.862			
	[0.700, 0.941]			
Brainstem	20.19 / 1.251			
	[1.143, 1.458]			

<sup>\*</sup> Cerebellum volumes do not include vermis volume.



Subcortical	Total	Right	Left	Asymmetry
Accumbens	1.12 / 0.070	0.52 / 0.032	0.60 / 0.037	-14.2299
	[0.058, 0.084]	[0.026, 0.041]	[0.031, 0.045]	[-32.498, 4.735]
Amygdala	2.55 / 0.158	1.26 / 0.078	1.29 / 0.080	-1.9938
	[0.140, 0.178]	[0.071, 0.091]	[0.067, 0.087]	[-5.479, 14.787]
Basal forebrain	0.78 / 0.049	0.36 / 0.022	0.43 / 0.027	-18.7919
	[0.034, 0.057]	[0.014, 0.026]	[0.017, 0.031]	[-47.918, 9.560]
Caudate	6.49 / 0.402	3.35 / 0.207	3.14 / 0.195	6.3870
	[0.372, 0.510]	[0.189, 0.258]	[0.182, 0.253]	[-2.713, 10.066]
Hippocampus	9.03 / 0.560	4.57 / 0.283	4.46 / 0.276	2.5858
	[0.441, 0.582]	[0.221, 0.294]	[0.217, 0.290]	[-5.862, 11.696]
Pallidum	4.03 / 0.250	1.99 / 0.123	2.04 / 0.126	-2.2658
	[0.200, 0.255]	[0.097, 0.126]	[0.102, 0.130]	[-11.066, 1.314]
Putamen	10.52 / 0.652	5.10 / 0.316	5.41 / 0.335	-5.8603
	[0.570, 0.726]	[0.283, 0.360]	[0.285, 0.368]	[-6.673, 2.821]
Thalamus	18.84 / 1.167	9.40 / 0.582	9.44 / 0.585	-0.4660
	[1.063, 1.236]	[0.529, 0.616]	[0.532, 0.623]	[-4.852, 3.000]
Ventral DC	11.35 / 0.703	5.60 / 0.347	5.75 / 0.356	-2.7219
	[0.638, 0.775]	[0.314, 0.383]	[0.323, 0.393]	[-6.509, 0.722]

Cortical	Total	Right	Left	Asymmetry
Frontal lobe	216.42 / 13.409	106.68 / 6.609	109.74 / 6.800	-2.8346
	[13.009, 14.859]	[6.522, 7.495]	[6.447, 7.382]	[-2.754, 5.397]
Frontal pole	7.40 / 0.458	3.88 / 0.240	3.52 / 0.218	9.8244
	[0.397, 0.563]	[0.203, 0.294]	[0.188, 0.282]	[-14.498, 27.169]
Gyrus rectus	4.54 / 0.281	2.41 / 0.150	2.13 / 0.132	12.6886
	[0.253, 0.397]	[0.127, 0.206]	[0.112, 0.206]	[-22.037, 42.826]
Opercular inf. frontal gyrus	6.84 / 0.424	2.79 / 0.173	4.05 / 0.251	-36.7955
	[0.395, 0.664]	[0.182, 0.362]	[0.178, 0.342]	[-41.202, 49.470]
Orbital inf. frontal gyrus	3.63 / 0.225	2.18 / 0.135	1.45 / 0.090	40.6000
	[0.164, 0.304]	[0.072, 0.159]	[0.073, 0.164]	[-58.376, 52.891]
Triangular inf. frontal gyrus	8.87 / 0.549	3.62 / 0.224	5.25 / 0.325	-36.6571
	[0.398, 0.684]	[0.183, 0.350]	[0.181, 0.364]	[-43.910, 38.922]
Medial frontal cortex	4.31 / 0.267	2.60 / 0.161	1.71 / 0.106	41.5494
	[0.228, 0.353]	[0.106, 0.194]	[0.106, 0.186]	[-36.763, 40.247]
Middle frontal gyrus	47.13 / 2.920	22.86 / 1.416	24.27 / 1.504	-6.0202
	[2.686, 3.501]	[1.317, 1.793]	[1.327, 1.781]	[-13.009, 15.241]
Anterior orbital gyrus	5.60 / 0.347	2.88 / 0.178	2.72 / 0.169	5.5477
	[0.236, 0.401]	[0.116, 0.217]	[0.103, 0.206]	[-33.321, 49.004]
Lateral orbital gyrus	6.57 / 0.407	3.26 / 0.202	3.31 / 0.205	-1.7907
	[0.285, 0.460]	[0.128, 0.240]	[0.134, 0.247]	[-45.059, 36.116]
Medial orbital gyrus	9.76 / 0.605	4.68 / 0.290	5.08 / 0.315	-8.2029
	[0.557, 0.750]	[0.262, 0.377]	[0.276, 0.393]	[-25.887, 16.999]
Posterior orbital gyrus	8.00 / 0.495	4.44 / 0.275	3.56 / 0.221	21.9344
	[0.374, 0.564]	[0.175, 0.285]	[0.182, 0.294]	[-30.122, 25.043]
Precentral gyrus	32.34 / 2.004	16.69 / 1.034	15.65 / 0.970	6.4218
	[1.780, 2.194]	[0.874, 1.124]	[0.878, 1.112]	[-12.677, 13.599]
Precentral gyrus medial segment	5.86 / 0.363	2.58 / 0.160	3.27 / 0.203	-23.6546
	[0.334, 0.497]	[0.157, 0.251]	[0.163, 0.264]	[-33.097, 25.816]
Subcallosal area	2.39 / 0.148	1.22 / 0.075	1.18 / 0.073	3.1536
	[0.109, 0.236]	[0.054, 0.119]	[0.054, 0.119]	[-17.989, 19.498]
Sup. frontal gyrus	37.80 / 2.342	18.93 / 1.173	18.87 / 1.169	0.3066
	[1.948, 2.609]	[0.945, 1.326]	[0.953, 1.331]	[-18.432, 16.636]
Sup. frontal gyrus medial segment	15.39 / 0.954	7.18 / 0.445	8.21 / 0.509	-13.3120
	[0.832, 1.193]	[0.404, 0.659]	[0.366, 0.594]	[-23.185, 44.635]
Supplementary motor cortex	10.01 / 0.620	4.48 / 0.278	5.52 / 0.342	-20.7562
	[0.659, 0.947]	[0.310, 0.485]	[0.312, 0.491]	[-30.014, 26.518]

Temporal lobe	141.36 / 8.759	70.83 / 4.388	70.54 / 4.370	0.4148
	[7.570, 8.896]	[3.774, 4.509]	[3.752, 4.446]	[-5.291, 8.107]
Fusiform gyrus	18.08 / 1.120	9.38 / 0.581	8.70 / 0.539	7.5836
	[0.982, 1.403]	[0.484, 0.726]	[0.466, 0.705]	[-18.307, 26.084]
Planum polare	5.11 / 0.316	2.41 / 0.149	2.70 / 0.167	-11.3117
	[0.254, 0.367]	[0.121, 0.186]	[0.124, 0.193]	[-25.613, 23.366]
Planum temporale	5.43 / 0.337	2.10 / 0.130	3.33 / 0.206	-45.2592
	[0.226, 0.400]	[0.087, 0.189]	[0.123, 0.229]	[-71.355, 12.332]
Inf. temporal gyrus	30.91 / 1.915	15.80 / 0.979	15.12 / 0.937	4.3844
	[1.576, 2.121]	[0.755, 1.081]	[0.769, 1.101]	[-22.252, 18.123]
Middle temporal gyrus	35.48 / 2.198	19.43 / 1.204	16.05 / 0.995	19.0168
	[1.957, 2.515]	[0.977, 1.297]	[0.916, 1.261]	[-14.399, 22.113]
Sup. temporal gyrus	18.75 / 1.162	8.30 / 0.514	10.46 / 0.648	-23.0107
	[0.916, 1.259]	[0.430, 0.644]	[0.441, 0.661]	[-29.439, 23.854]
Transverse temporal gyrus	3.96 / 0.245	1.80 / 0.112	2.16 / 0.134	-17.7788
	[0.188, 0.300]	[0.082, 0.150]	[0.094, 0.163]	[-48.651, 22.277]
Temporal pole	23.63 / 1.464	11.61 / 0.719	12.02 / 0.745	-3.5142
	[1.145, 1.593]	[0.559, 0.807]	[0.570, 0.812]	[-15.798, 13.968]
Parietal lobe	128.76 / 7.978	65.25 / 4.043	63.51 / 3.935	2.7040
	[7.923, 9.185]	[3.925, 4.593]	[3.960, 4.632]	[-7.082, 4.810]
Angular gyrus	29.81 / 1.847	16.30 / 1.010	13.51 / 0.837	18.6797
	[1.320, 1.976]	[0.699, 1.078]	[0.575, 0.962]	[-11.000, 42.435]
Postcentral gyrus	25.57 / 1.584	11.87 / 0.735	13.70 / 0.849	-14.3284
	[1.481, 1.884]	[0.695, 0.922]	[0.753, 1.013]	[-27.860, 7.288]
Postcentral gyrus medial segment	2.25 / 0.140	1.27 / 0.079	0.98 / 0.061	25.4092
	[0.103, 0.205]	[0.046, 0.115]	[0.047, 0.103]	[-42.007, 52.253]
Precuneus	25.75 / 1.596	13.30 / 0.824	12.45 / 0.771	6.6060
	[1.518, 1.912]	[0.753, 0.976]	[0.740, 0.967]	[-11.256, 14.850]
Sup. parietal lobule	26.42 / 1.637	11.59 / 0.718	14.83 / 0.919	-24.5381
	[1.438, 2.007]	[0.696, 1.016]	[0.699, 1.021]	[-20.061, 19.531]
Supramarginal gyrus	18.95 / 1.174	10.92 / 0.677	8.03 / 0.497	30.5361
	[1.109, 1.586]	[0.510, 0.818]	[0.541, 0.823]	[-30.981, 26.106]

Occipital lobe	98.15 / 6.081	50.76 / 3.145	47.39 / 2.936	6.8655
	[5.545, 6.834]	[2.813, 3.529]	[2.674, 3.351]	[-4.851, 13.488]
Calcarine cortex	11.02 / 0.683	5.44 / 0.337	5.58 / 0.346	-2.4534
	[0.428, 0.712]	[0.216, 0.365]	[0.202, 0.356]	[-16.717, 23.233]
Cuneus	12.10 / 0.749	6.04 / 0.374	6.06 / 0.375	-0.3048
	[0.610, 0.892]	[0.295, 0.465]	[0.295, 0.455]	[-23.435, 25.640]
Lingual gyrus	20.70 / 1.282	10.85 / 0.672	9.85 / 0.610	9.6288
	[1.115, 1.553]	[0.545, 0.800]	[0.528, 0.793]	[-19.359, 25.408]
Occipital fusiform gyrus	10.20 / 0.632	4.60 / 0.285	5.60 / 0.347	-19.7057
	[0.458, 0.759]	[0.204, 0.400]	[0.216, 0.411]	[-50.800, 35.533]
Inf. occipital gyrus	14.58 / 0.904	7.47 / 0.463	7.12 / 0.441	4.8275
	[0.878, 1.288]	[0.438, 0.695]	[0.393, 0.651]	[-23.302, 38.030]
Middle occipital gyrus	12.52 / 0.776	6.86 / 0.425	5.67 / 0.351	18.9388
	[0.657, 0.992]	[0.324, 0.530]	[0.293, 0.508]	[-26.139, 38.366]
Sup. occipital gyrus	9.22 / 0.571	5.63 / 0.349	3.59 / 0.223	44.1039
	[0.455, 0.769]	[0.236, 0.431]	[0.191, 0.371]	[-16.335, 54.582]
Occipital pole	7.80 / 0.484	3.88 / 0.241	3.92 / 0.243	-1.0349
	[0.319, 0.557]	[0.150, 0.289]	[0.146, 0.289]	[-37.846, 38.535]
Limbic cortex	49.70 / 3.079	24.40 / 1.512	25.29 / 1.567	-3.5823
	[2.859, 3.435]	[1.351, 1.718]	[1.443, 1.788]	[-19.356, 9.791]
Entorhinal area	5.48 / 0.339	2.50 / 0.155	2.97 / 0.184	-17.0916
	[0.246, 0.405]	[0.119, 0.211]	[0.118, 0.203]	[-25.455, 28.351]
Anterior cingulate gyrus	12.26 / 0.760	6.41 / 0.397	5.85 / 0.362	9.1378
	[0.696, 1.039]	[0.299, 0.529]	[0.352, 0.562]	[-45.001, 24.087]
Middle cingulate gyrus	12.41 / 0.769	6.58 / 0.407	5.84 / 0.362	11.9095
	[0.669, 0.884]	[0.322, 0.465]	[0.315, 0.456]	[-23.977, 27.791]
Posterior cingulate gyrus	11.10 / 0.687	5.37 / 0.333	5.73 / 0.355	-6.4087
	[0.614, 0.798]	[0.291, 0.404]	[0.308, 0.411]	[-20.436, 13.588]
Parahippocampal gyrus	8.46 / 0.524	3.54 / 0.220	4.91 / 0.304	-32.3090
	[0.419, 0.588]	[0.195, 0.285]	[0.218, 0.311]	[-27.444, 3.913]
Insular cortex	33.70 / 2.088	16.44 / 1.019	17.25 / 1.069	-4.8249
	[2.044, 2.409]	[0.977, 1.184]	[1.040, 1.238]	[-14.064, 2.319]
Anterior insula	10.14 / 0.628	4.97 / 0.308	5.16 / 0.320	-3.7755
	[0.553, 0.697]	[0.269, 0.350]	[0.280, 0.354]	[-12.488, 6.535]
Posterior insula	5.43 / 0.336	2.76 / 0.171	2.67 / 0.166	3.0073
	[0.299, 0.390]	[0.148, 0.202]	[0.142, 0.193]	[-11.786, 18.049]
Central operculum	8.35 / 0.517	4.41 / 0.273	3.94 / 0.244	11.3541
-	[0.517, 0.685]	[0.241, 0.344]	[0.259, 0.356]	[-26.556, 14.476]
Frontal operculum	5.18 / 0.321	2.08 / 0.129	3.10 / 0.192	-39.3626
•	[0.221, 0.373]	[0.100, 0.192]	[0.108, 0.195]	[-39.992, 33.557]
Parietal operculum	4.60 / 0.285	2.22 / 0.138	2.38 / 0.147	-6.8702
*	[0.283, 0.437]	[0.116, 0.208]	[0.151, 0.244]	[-53.394, 10.366]
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CSF	<b>Total</b> (cm <sup>3</sup> / %)	<b>Right</b> (cm <sup>3</sup> / %)	<b>Left</b> (cm <sup>3</sup> / %)	Asymmetry (%)
Inf. lateral ventricle	1.35 / 0.084	0.68 / 0.042	0.67 / 0.041	2.3407
	[0.031, 0.098]	[0.015, 0.058]	[0.013, 0.047]	[-49.199, 92.028]
Lateral ventricle	19.89 / 1.232	10.91 / 0.676	8.97 / 0.556	19.5126
	[0.607, 2.225]	[0.286, 1.122]	[0.290, 1.161]	[-51.351, 44.475]
3rd ventricle	0.91 / 0.056			
	[0.025, 0.093]			
4th ventricle	1.93 / 0.120			
	[0.078, 0.176]			
External CSF	161.97 / 10.035			
	[7.672, 12.620]			
Cerebellar vermis	<b>Total</b> (cm <sup>3</sup> / %)			
Lobules I-V	7.36 / 0.456			
	[0.336, 0.490]			
Lobules VI-VII	2.85 / 0.176			
	[0.151, 0.231]			
Lobules VIII-X	3.70 / 0.229			
	[0.176, 0.263]			