

# 3dBAR reconstruction examples

1. Based on Paxinos and Watson *The Rat Brain in Stereotaxic Coordinates*
2. Based on [ <http://software.incf.org/software/waxholm-space> Waxholm Space ?
3. Based on ScalableBrainAtlas templates

## Based on Paxinos and Watson *The Rat Brain in Stereotaxic Coordinates*

Examples of reconstructions based on Paxinos and Watson *The Rat Brain in Stereotaxic Coordinates* created with 3D Brain Atlas Reconstructor. Meshes are presented without any additional processing such as smoothing or complexity reduction in order to fully represent source data.

Reconstruction of the whole brain

Segmented reconstruction of the cortex  
(both archi and neocortex):  
M1,M2 primary and secondary motor cortex  
RSD - retrosplenial dysgranular cortex  
V1 - primary visual cortex  
OlfCx - olfactory cortex  
S2 - secondary somatosensory cortex  
S1ULp - primary somatosensory cortex,  
upper lip region.

Thalamus

Segmented reconstruction of thalamus:  
LD - laterodorsal thalamic nucleus,  
PO - posterior thalamic nuclear group,  
LP - lateral posterior thalamic nucleus,  
DLG - dorsal lateral geniculate nucleus,  
MG - medial geniculate nucleus,  
Rt - reticular thalamic nucleus,  
PVA - paraventricular thalamic nucleus.

Cortico-spinal tract

Segmented reconstruction  
of cortico-spinal tract:  
ic - internal capsule,  
lfp - longitudinal fasciculus of the pons,  
cp - cerebral peduncles,  
py - pyramidal tract.

## Based on Waxholm Space Atlas

([webGl preview](#)) - may take a while to load

Segmented reconstructions  
of chosen brain structures:  
Reconstruction of whole brain SC - superior colliculus,  
VS - ventricular system,  
cb - cerebellum.

## Based on ScalableBrainAtlas templates

Rhesus Monkey, Paxinos et al. 2000	NeuroMaps Macaque Atlas ( <a href="#">webGl preview</a> )
Segmented reconstruction of the cortex: 6, 47 - areas 6 and 47 of cortex, PE - parietal area PE, STreg - superior temporal sulcus V1,V4 - visual area 1 and 4.	Reconstructions of cerebral cortex and chosen subcortical structures: Amg - amygdala, Str - striatum, CgG - cingulate gyrus, FL,OL,PL - frontal, occipital and parietal lobe, Olf - olfactory bulb.