

## Original Data

Format: no-header, unsigned short 16 bit (byte order: MSB LSB)

Acquisition information:

SPGR T1 POST GAD

resolution: 256x256x124

pixel size: 0.9375 x 0.9375 mm

slice thickness: 1.5 mm

slice gap: 0.0 mm

acquisition order: LR

Case information:

Case	Tumor	Location	Slice#
1	meningioma	left frontal	44
2	meningioma	left parasellar	58
3	meningioma	right parietal	78
4	low grade glioma	left frontal	35
5	astrocytoma	right frontal	92
6	low grade glioma	right frontal	81
7	astrocytoma	right frontal	92
8	astrocytoma	left temporal	39
9	astrocytoma	left frontotemporal	31
10	low grade glioma	left temporal	35

## Automated Segmentation

Format: no-header, unsigned short 16 bit (byte order: MSB LSB)

Location:

Greyscale images

./case[0-10]/spgr/I.[1-124] (124 slices)

Segmented images

./case[0-10]/seg/seg.[1-124] (124 slices)

Segmented Region	Label Values
Brain	5
Tumor	6
Ventricles	7
Necrosis	10

## Viewing the data

Each of the ten sub-directories contain two scene files (scene.xml and scene3.mrml).

The scene.xml and scene3.mrml files can be opened with the 3D Slicer2 and Slicer3 respectively.












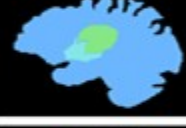

































## Data manipulation

The images can be viewed and processed with 3D Slicer (<http://www.slicer.org/>). A comprehensive set of tutorials on Slicer is available online at:

[http://wiki.na-mic.org/Wiki/index.php/Slicer:Workshops:User\\_Training\\_101](http://wiki.na-mic.org/Wiki/index.php/Slicer:Workshops:User_Training_101)

# Manual segmentation

The table below is showing the single slice manual segmentation by four expert segmenters and the automated segmentation:

Segmentation					
	Expert1	Expert2	Expert3	Expert4	Automated
Case1 Slice#44					
Case2 Slice#58					
Case3 Slice#78					
Case4 Slice#35					
Case5 Slice#92					
Case6 Slice#81					
Case7 Slice#92					
Case8 Slice#39					
Case9 Slice#31					
Case10 Slice#35	