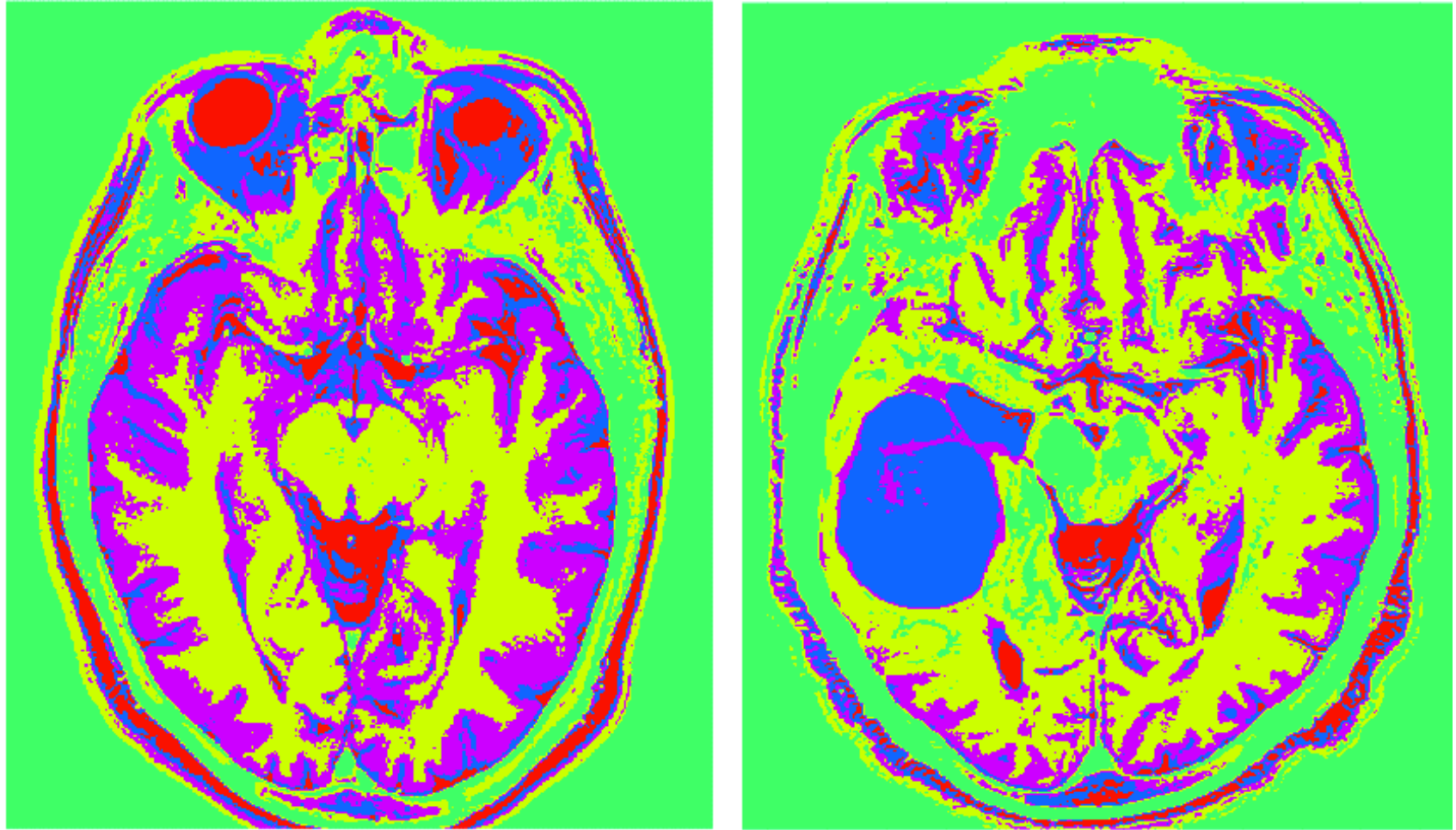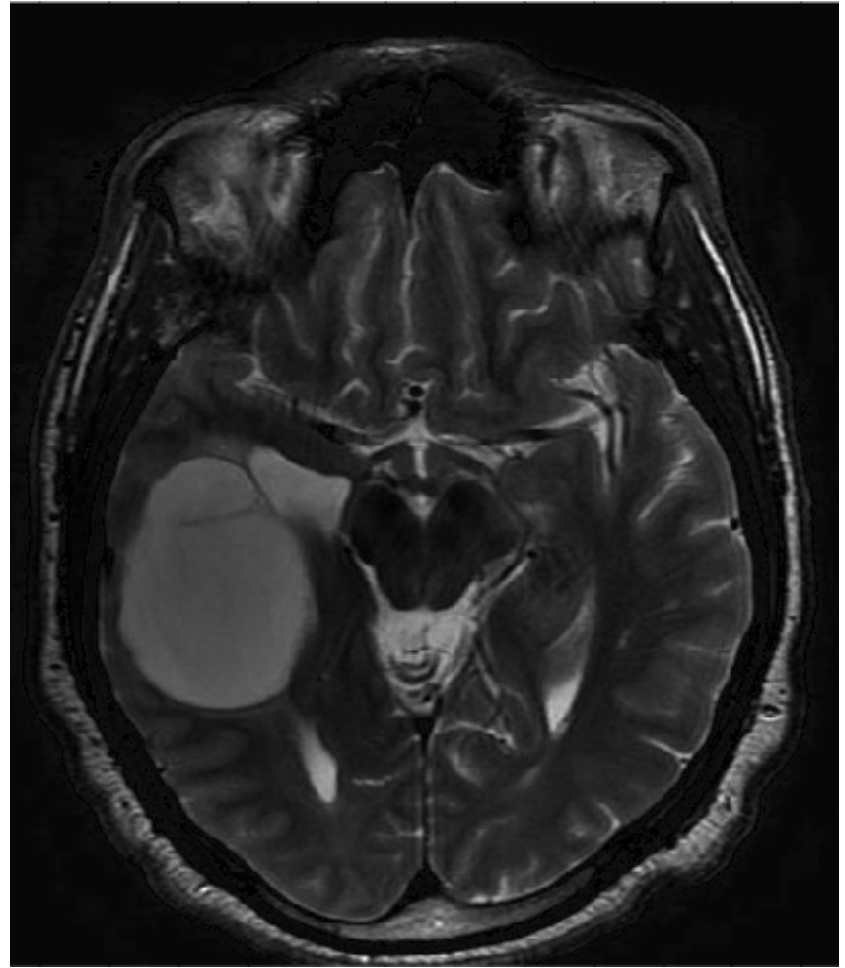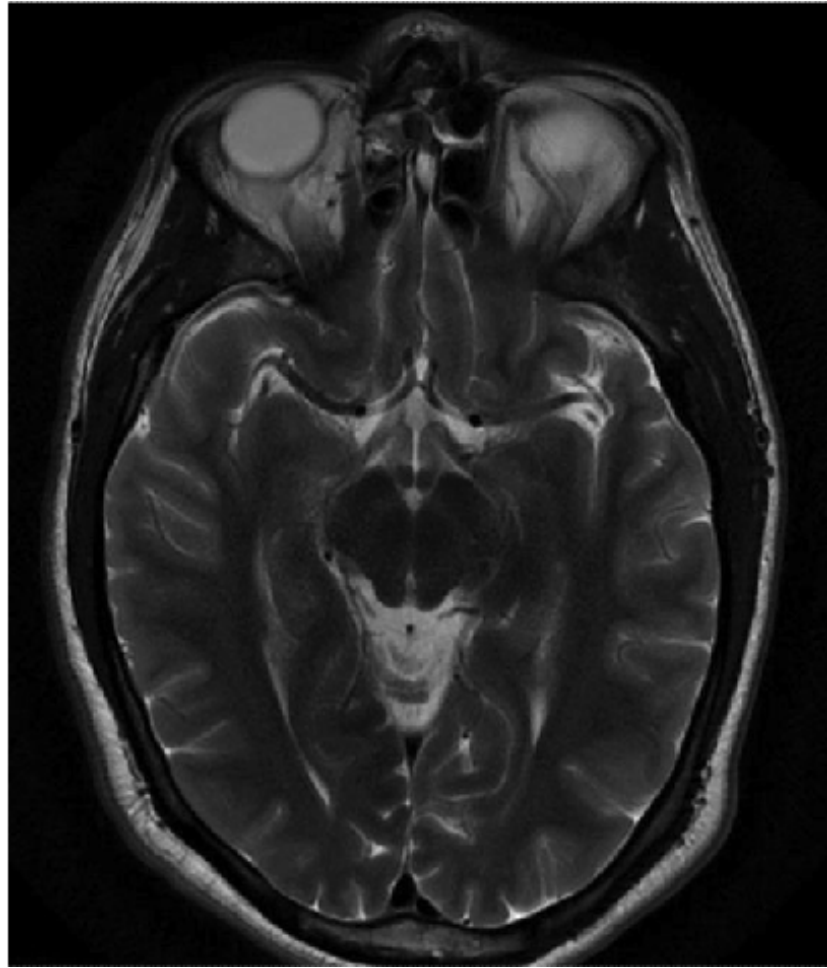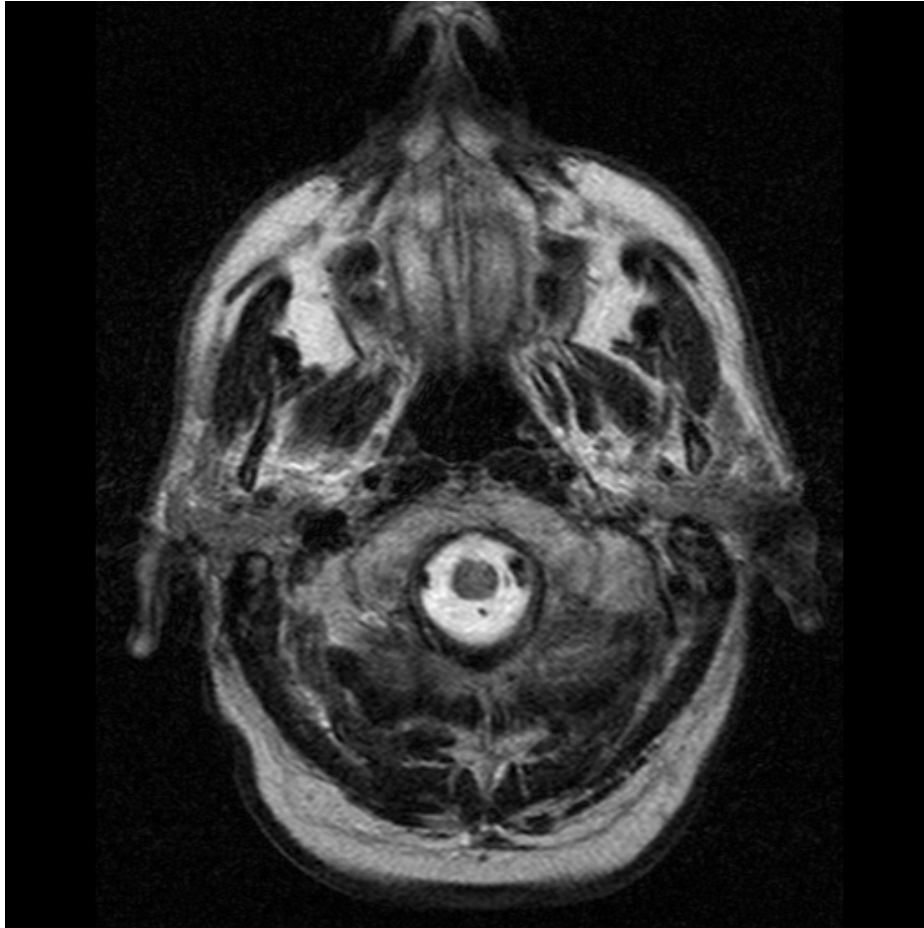# Segmented MRI Images

T2 Weighted MRI Images

First Taste of a Fascinating Field

- MRI image segmentation is subject of ongoing research

- *k*-means is a good starting point, but not enough
  - Advanced clustering techniques such as the modified fuzzy k-means (MFCM) clustering technique
  - Packages in R specialized for medical image analysis
    http://cran.r-project.org/web/views/MedicalImaging.html

3D Reconstruction

- 3D reconstruction from 2D cross sectional MRI images

- Important in the medical field for diagnosis, surgical planning and biological research