Using Gannet at Oxford

# Requirements

1. A vaguely modern version of Matlab. WTC has been running 2018b.
2. Download SPM12. <https://www.fil.ion.ucl.ac.uk/spm/software/spm12/>
3. Download the Oxford fork of Gannet.  
   In terminal:
   1. *cd ~/Documents/MATLAB*
   2. *git clone* [*https://github.com/wexeee/Gannet3.1.git*](https://github.com/wexeee/Gannet3.1.git)

Optional

1. Download the example data from WTC’s public folder on jalapeno.  
   In terminal:
   1. cd ~/Documents/MATLAB/Gannet3.1/ oxTestsAndDocs
   2. scp jalapeno:/home/fs0/wclarke/Public/MPRESSExamples.zip .
   3. unzip MPRESSExamples.zip

# Data required

1. Twix “.dat” file for the main MEGA-PRESS acquisition.
2. Twix “.dat” file for the water reference acquisition.
3. T1 structural in NiFTi format.

# How to use

Run Matlab and explore the examples in the subfolder oxTestsAndDocs.

There are three examples:

1. simpleExample.m – process a single subjects’ data.
2. batchExample.m – process two or more data sets from a study.
3. fMRSExample.m – process datasets as fMRS data, splitting up single twix files into timecourse data.

The examples need the example data to run (see above) and should be run from the folder they are contained in.

# Tips

The one thing that Gannet doesn’t seem good at is controlling the data output directory. By default, the output is saved to the current directory rather than a specified path. To control the location of output I would recommend using the cd command in Matlab before calling the main Gannet functions.