General Instructions Prior To BIDS Workshop

1. Get a Cheaha Account
   1. Access to Cheaha is suggested, but not required. If you would like to run the example data on your own machine, make sure to have a working installation of Anaconda, as the tool we will use is Python based. If you are working on Cheaha, there are already Anaconda modules installed there, so you do not need to download any Anaconda software.
   2. For users who have a BlazerID but do not have an account for Cheaha, please go to <https://rc.uab.edu> where you will need to fill out a short form. Once the form is submitted, you will have access to Cheaha. More information on using Cheaha can be found at https://uabrc.readthedocs.io/en/latest/cheaha/index.html
2. Download the practice data
   1. Practice data can be downloaded from Box using the following link: <https://uab.box.com/s/9oq9lp1fya5t9ezneelpux0in487xqbz>
   2. If you are using Cheaha for the workshop, make a directory using the following command:
      1. mkdir $USER\_DATA/BIDS\_Workshop/ws\_data/dicom
   3. Place the downloaded data (the S01 and S02 folders) in the ws\_data/dicom folder you just created.
   4. For people using their own personal laptops, you can create the BIDS\_Workshop/ws\_data/dicom directory wherever you would like on your machine and place the data there.
3. Creating the Anaconda environment
   1. The tool we are using is called [HeuDiConv](https://github.com/nipy/heudiconv), and we will be using it as a Python library. In order to download the library, you will need to create an Anaconda virtual environment and install a couple of packages.
   2. Go to <https://rc.uab.edu>
   3. Click the Interactive Apps dropdown at the top and choose HPC Desktop
   4. On the ensuing screen enter the following options:
      1. Number of hours: 8
      2. Partition: short
      3. Number of CPU: 1
      4. Memory Per CPU: 8
   5. Click Launch
   6. Once the job starts, click the Launch Desktop in new tab button
   7. Right click the Desktop and select Open Terminal Here
   8. Enter the following commands individually into the terminal and execute them:
      1. module load Anaconda3/2020.11
      2. conda create -n bids
      3. conda activate bids
      4. pip install heudiconv==0.9.0
      5. conda install -c conda-forge dcm2niix
   9. Some of the previous commands may take a minute to finish
   10. If no errors appear, your virtual environment is ready to run heudiconv and is ready for the workshop.