Python Environment Setup for Neural Data Processing
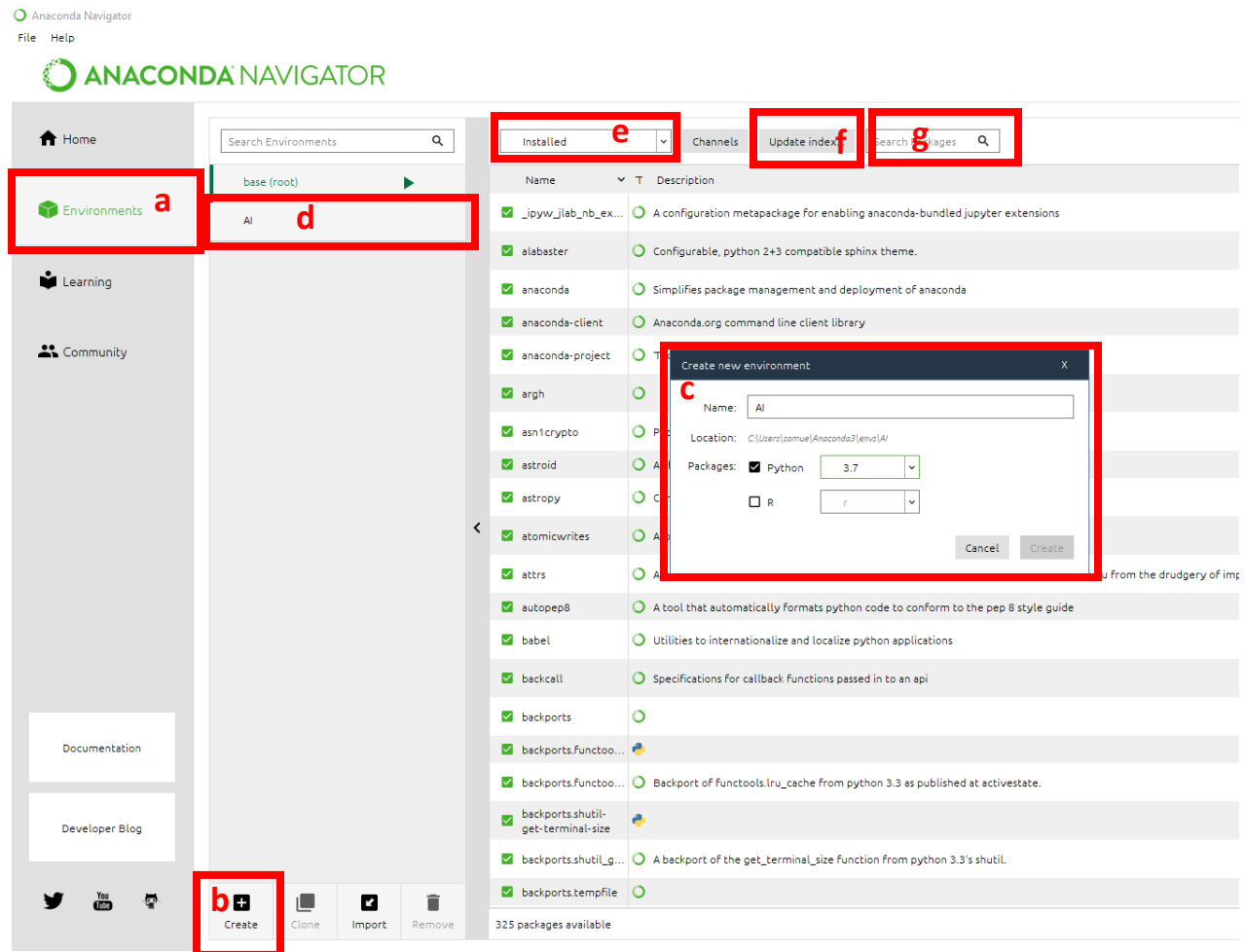
This is a guide to installing Anaconda for Python and packages to analyze neural data.
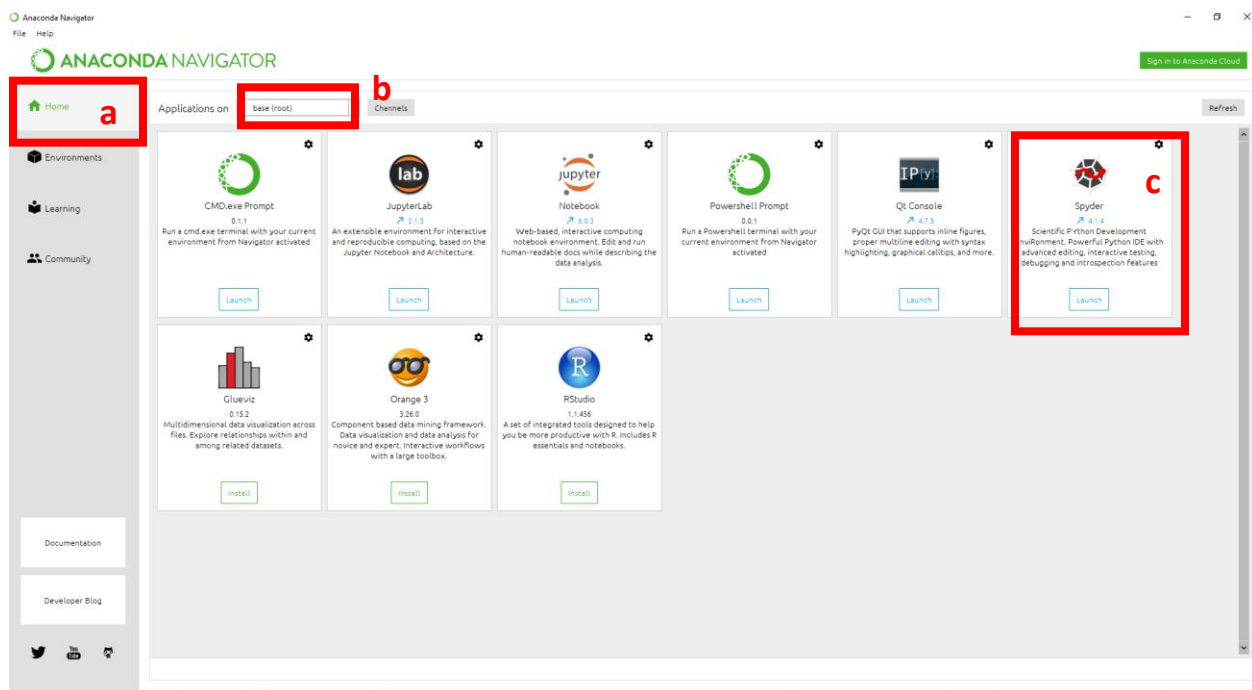
1. Install correct version of Anaconda
   https://www.anaconda.com/products/individual

2. Setup new environment

   a. Press Environment
   b. Create new environment
   c. Name and select Python 3.7 (3.8 has issues sometimes)
   d. Select new environment
   e. Select "Not Installed"
   f. Update Index
   g. Search and download the following packages

i. Numpy
            1. General Math and matrix operations
        ii. Pandas
            1. Data Preprocessing
        iii. XLRD
            1. Reading and writing to CSV
        iv. Scikit-learn
            1. Machine learning and statistical methods such as SVM and GLM
        v. Keras
            1. Deep Learning
        vi. Tensorflow
            1. Keras Backend
        vii. Matplotlib
            1. Data visulaization
3. Download and launch Spyder for Python scripting

    a. Go home
    b. Select environment made previously
    c. Download and launch Spyder
4. Neurosceince Specific Python Packages
    a. Nipype
        i. https://nipype.readthedocs.io/en/latest/users/examples/fmri_spm.html