PICRUSt2 wraps a number of tools to generate functional predictions from amplicon sequences.

https://github.com/picrust/picrust2/wiki

Installation guide

https://github.com/picrust/picrust2/wiki/Installation

```bash
$ ssh -Y lxlogin6.lrz.de (-l userID)
$ module load gcc/4.9
$ module load python
```

Pre requisite installations

https://github.com/picrust/picrust2/wiki/Pre-requisite-installations

- EPA-NG
- GAPP

Setting up your PATH

It is presumed that you have a "bin" directory within your home directory (e.g. "~/bin") and this directory is within your PATH environment variable.

You will need to enter the directory containing these tools:

```bash
$ mkdir ~/DIR/placement_tools
$ cd placement_tools
```

EPA-NG installation

```bash
$ wget https://github.com/gavinmdouglas/epa-ng/archive/0.2.1-beta-dev.tar.gz
$ tar -xzf epa-ng-0.2.1-beta-dev.tar.gz
$ cd epa-ng-0.2.1-beta-dev
$ make
$ ln -s $PWD/bin/epa-ng ~/bin/
```

GAPPA installation

```bash
$ wget https://github.com/gavinmdouglas/gappa/archive/v0.0.0-dev.tar.gz
$ tar -xzf gappa-0.0.0-dev.tar.gz
$ cd gappa-0.0.0-dev
$ make
$ ln -s $PWD/bin/gappa ~/bin/
```

After installing these pre-requisites, clone the repository
Install PICRUSt2 and other dependencies in a new conda environment

$ git clone https://github.com/picrust/picrust2.git
$ cd picrust2/
$ conda env create -f picrust2-env.yaml
$ source activate picrust2
$ pip install --editable .

Run the tests to verify installation

$ pytest