SourceTracker (example data)

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All of the code in this page is meant to be run in on the command line unless otherwise specified.

Install SourceTracker

First, get SourceTracker from github.com
These commands must be run on the command line

```
# clone the repo
git clone https://github.com/danknights/sourcetracker.git

# Enter the repository folder
cd sourcetracker

# Create a system variable called SOURCETRACKER_PATH pointing to this directory
# We will add it to a .Renviron file in your home directory.
echo "" >> $HOME/.Renviron
echo "SOURCETRACKER_PATH=$PWD" >> $HOME/.Renviron
```

Run SourceTracker on example data

This will run SourceTracker with only 2 restarts. Note: on MSI, run this first: `module load R`

```
Rscript sourcetracker_for_qiime.r -i data/otus.txt -m data/metadata-subset.txt -o outdir -v -n 2
```

This will produce pie charts, bar charts, and distribution charts (see Figure 2C in SourceTracker paper). For example, we can see a mixture of gut and oral sources on the NICU surface in `sink_predictions_pie_NICU.pdf`:

NICU_UDB19

Gut
Oral
Skin
Soil
Unknown