Analyzing and visualizing fungal OTU data with FUNGuild

PDSB Project Proposal
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The problem

No package that streamlines fungal data management and visualization

The data

- Fungal OTU table
- Functional group table
- Sample metadata

The tools

- FUNGuild
- Python
- R

The novelty

This method will streamline data organization and visualization for fungal functional groups
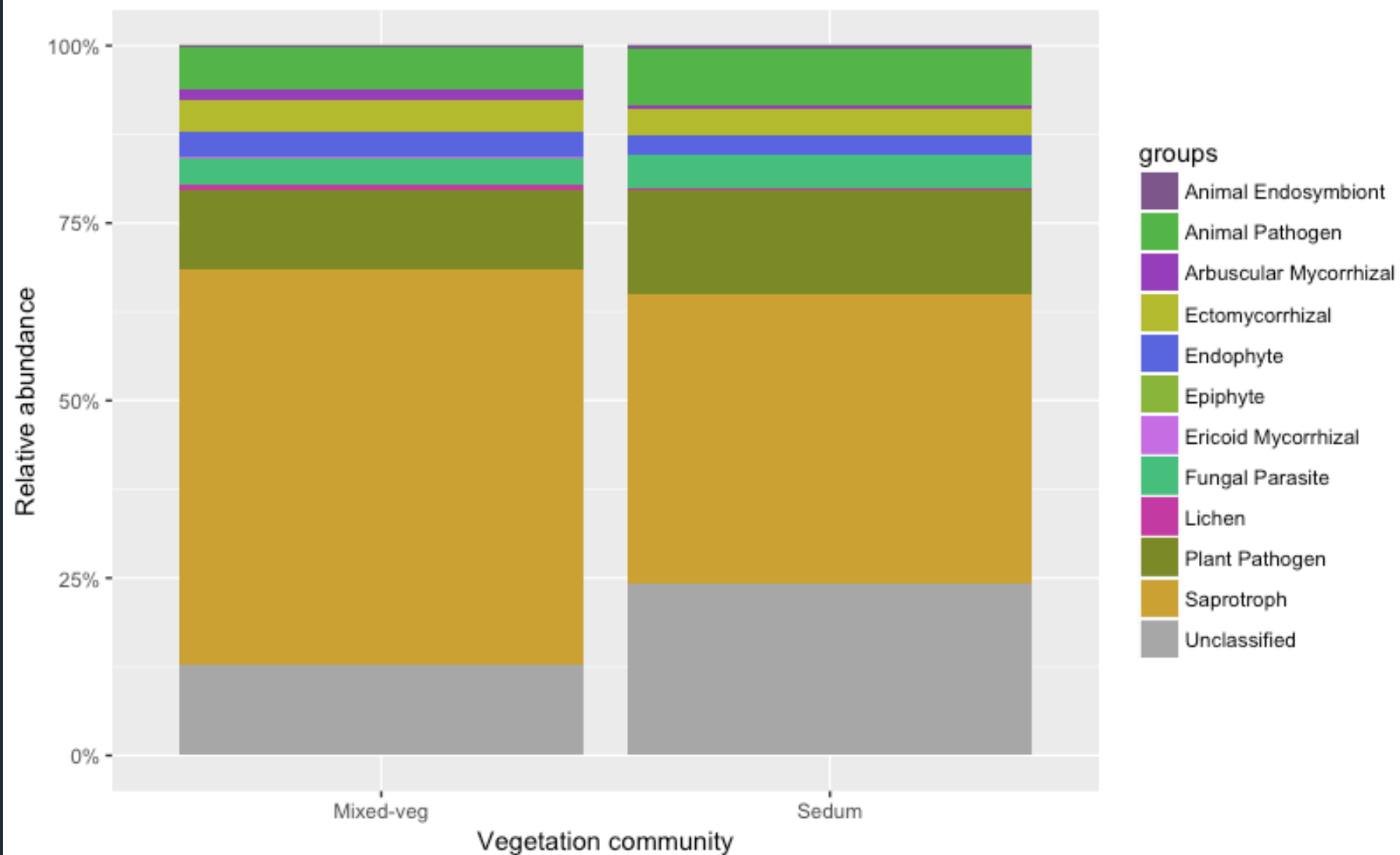
The goal

Produce a Python library documenting this workflow and figures

Progress

- *Load data*: FUNGuild output, ITS OTU table

- *Merge data*: merge FUNGuild and OTU table by common field (ID)

- *Collapse data*: generate DF of guilds and counts for each sample

- *Transpose + add metadata*

- *Visualize:* create relative abundance figures

Relative abundance of fungal functional groups

Next steps

- *Apply workflow in Python*