

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
- Jupyter Notebook
- R

The novelty

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

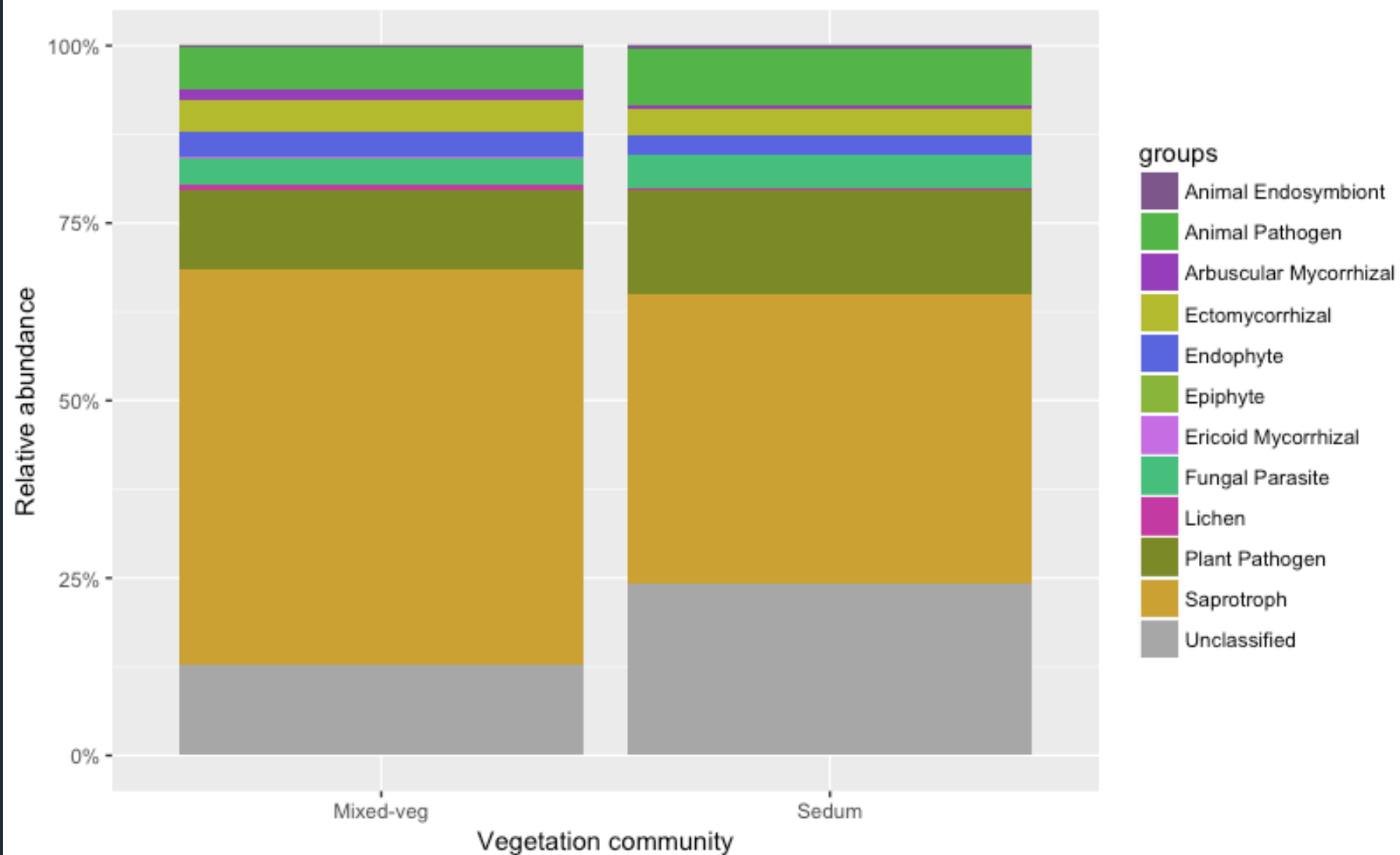
The goal

Produce user-friendly documentation of workflow

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

- *Create workflow in Jupyter notebook*