

Functional Annotation

Predicting ORFs

Orthology annotation

Pipeline options for annotating

HMM annotation

microbial genomes

KEGG

CAZy

MEROPS

anitSMASH

NCyc

FeGenie

OrthoMCL & inParanoid

Subcellular localization

Prophage & Mobile elements

Con¦rming functional orthologs

Introduction & RStudio Cloud

Import data and summarizing data

Data wrangling -basics

Data wrangling +ggplot2

Introduction to functions

R tutorials -Amplicon analysis with

R tutorial -Estimating diversity and

R tutorials -microbiome time-series

Intro to ggplot2

Advance ggplot2

statistical analysis

phyloseq

Basics in R

Python

What is Python?

Data types

Setting up loops

User input/output

sys.argv vs argparse

Modularization via functions

Writing & running scripts

Defensive programming

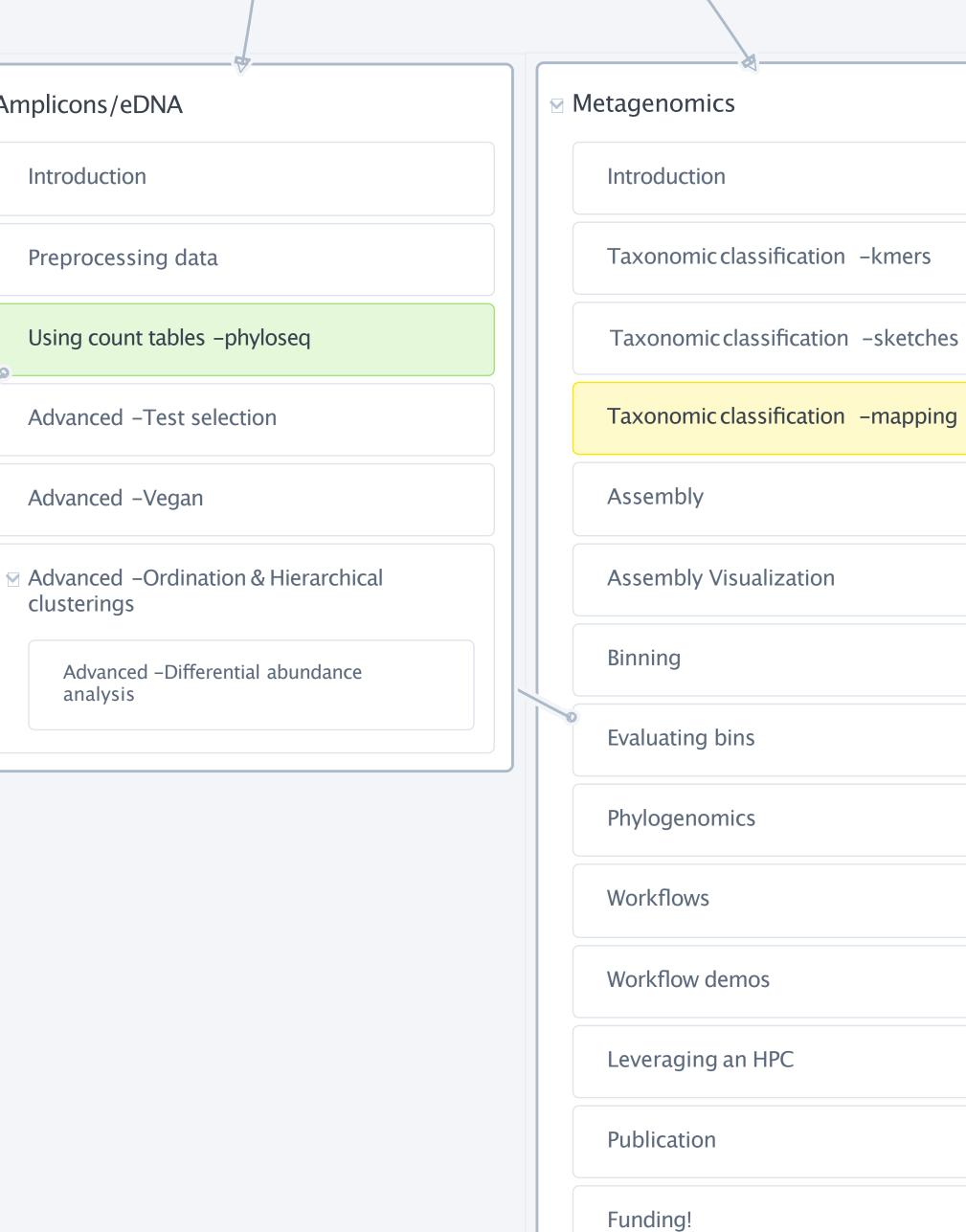
Invoking libraries

Biopython

Sorting

Introduction to tech used in lessons

Syntax & print statements



Basic GitHub

Underdevelopment

Transcriptomics Networks Building a network from abundance Introduction data P1 Caveats Building a network from abundance data P2 Mapping reads Looking at your network in a GUI Differential expression Analyzing your network in a GUI Assembly Basic network analysis Assembly quality assessment Visualization in R

Data Viz

Pop gen & comparative genomics