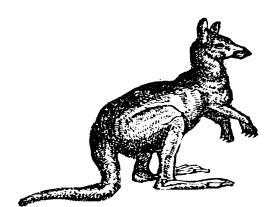
Genome Directory

Define the number of genomes to pick (default = 10) and number of reads to generate per file (default = 100,000)



Execute sim mode

PD on concatenated tree Determines PD contributions for taxa present in concatentated guide tree in PhyloSift marker directory





Select Taxa



Two separate approaches used:

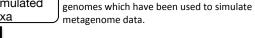
- 1. Select a set of taxa that contribute to PD (user input, default = 10)
- 2. Same number of taxa are randomly select taxa across PD list

Grinder algorithm randomly generates reads from selected genomes, outputs simulated PE-Simulated Reads Illumina and 454 datasets



Generate

Mask Simulated Taxa





Cloned Marker Directory

A cloned marker directory is created, where simulated genomes have been removed from marker packages.

Workflow plugs into updateDB to mask