

GLADE



Input

OrthoFinder Results Directory
(Orthogroups, Gene Trees, Species Tree)

Gains



Orthogroup present/absent at each species tree node.

Gain node is most ancestral node with presence.

Duplications



Duplications have overlap in species in descendant clades.

Losses

Speciation loss



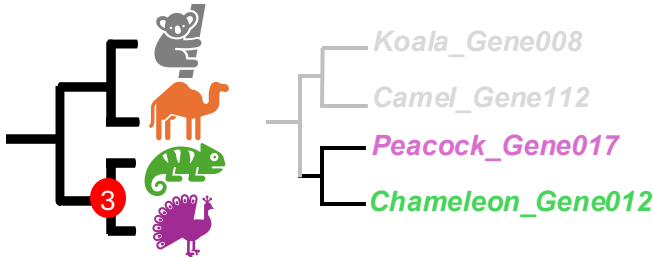
A species lacks an expected gene.

Post-duplication loss



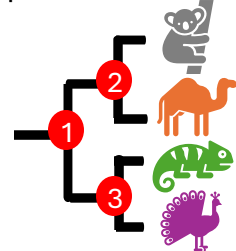
A species doesn't retain all expected copies after a duplication.

Ancestral Genomes



Gene tree pruned to match node.
Orthogroup size reconstructed (duplications and losses)
Ancestral FASTA constructed

All events mapped to a species tree node



Output

GainsLossDuplication, AncestralGenomes, BranchStatistics OGBBranchChange