

Priority list

We have 24 weeks. Time requirements for below are omitted.

1. 1.0 Release

- Sankoff
 - efficiency (Goloboff)
 - testing
- Testing aligned data types
- Output
 - finalize decisions
 - extra GraphViz options?
- Code ready for public consumption
 - better Haddock coverage
 - Mac compilation issues
 - tutorial
- Reworking metadata **Might be hard**
- 3D traversal inference **depends on redoing metadata**
- Various recomputation efficiencies **depends on reworking metadata**
 - Sankoff (Goloboff)
 - others?
 - testing
- Test 3D **depends on 3D traversal inference**
- Code ready for public consumption
 - better Haddock coverage
 - platform-specific compilation instructions
 - tutorial
- Graph interface **Decision: monadic?**
 - motivation: to allow simple operations w/o digging through
 - stabilize it
 - manipulation of both trees and networks (SPR, TBR, genetic algorithms, perturbation analysis)
- Testing aligned data types
- Already done:
 - input types
 - basic GraphViz output
 - build
 - post- and pre- order passes

2. Data structure tests

- $\frac{1}{3}$ are obvious
- other straightforward stuff (but what?)
- integration testing easier with graph interface

3. Publication (partially ordered) depends on code & output

a. Network optimization

- Dependencies:
 - Data structure tests
 - $\frac{1}{3}$ are obvious
 - other straightforward stuff (but what?)
 - integration testing (easier with graph interface)

b. IA

- GPU stuff?

c. Software description

d. Trajectory stuff (edits on networks)

- depends on SPR, TBR

e. Single cost (pre-order, post-order for networks)

- need this code locked down
 - Maybes might be hard
 - verify single assignment
 - display trees for individual blocks or characters might be hard

f. Various empirical cases

- co-phylogenies
- horizontal gene transfer
- hybridization
- hybridization on languages

4. Other stuff

- GPU stuff
- GUI
- Test on various hardware
- Sequential Alignment