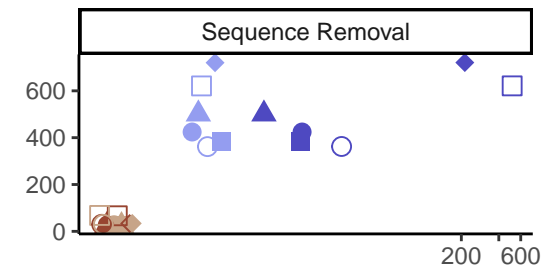
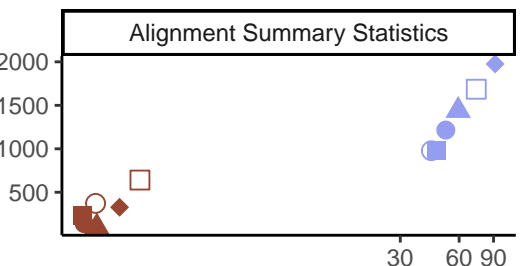
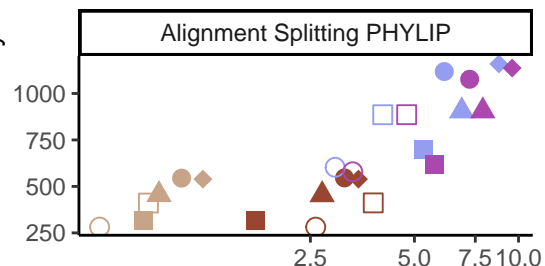
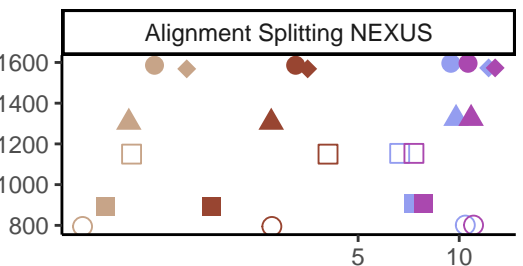
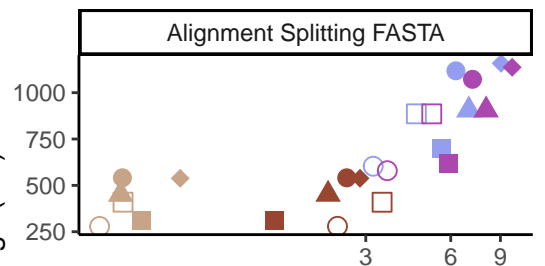
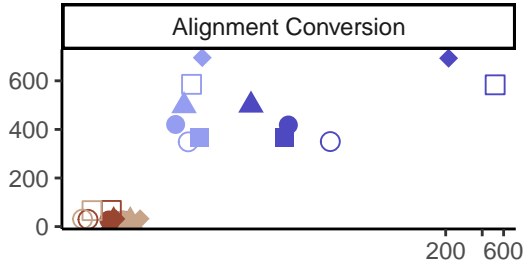
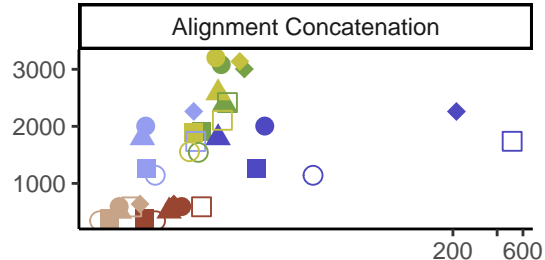


Memory usage (Mb)



Execution time (secs)

## Datasets

- Chan et al. 2020 (DNA)
- Esselstyn et al. 2021 (DNA)
- ▲ Jarvis et al. 2014 (DNA)
- ◆ Oliveros et al. 2019 (DNA)
- Shen et al. 2018 (AA)
- Wu et al. 2018 (AA)

## Apps

- AMAS
- AMAS (---check-align)
- AMAS (---remove-empty)
- goalign (multi-core)
- goalign (single-core)
- SEGUL
- SEGUL (---datatype ignore)