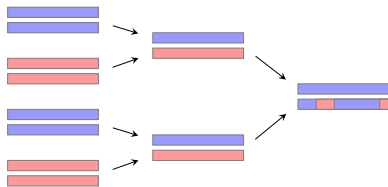


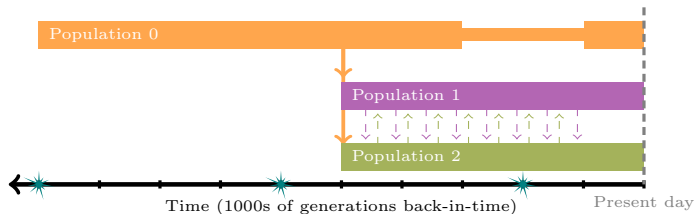
Identity-by-descent (IBD):
Which segments came from the
same ancestral chromosome?



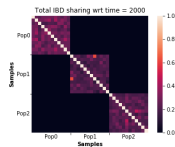
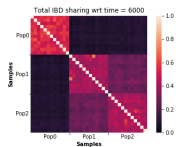
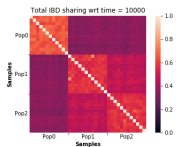
Local ancestry (LA):
Which segments came from
ancestors in a given population?

These relationships can be extracted efficiently from simulated and real genetic datasets stored as **tree sequences**.

IBD can be extracted from tree sequences



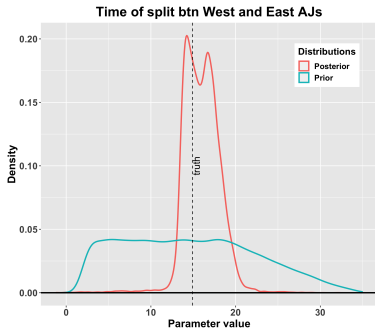
- **Powerful:**
even small IBD
segments are
detectable



- **Fast:**
 ≈ 8 sec on a laptop

Future work: what analyses are now possible?

- Analysis of Biobank datasets
- Simulation-based inference (eg. ABC)



See me at poster #32!



<https://tskit.readthedocs.io/>