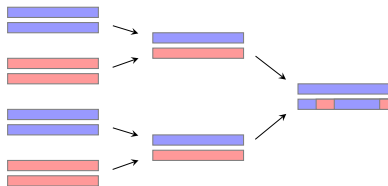


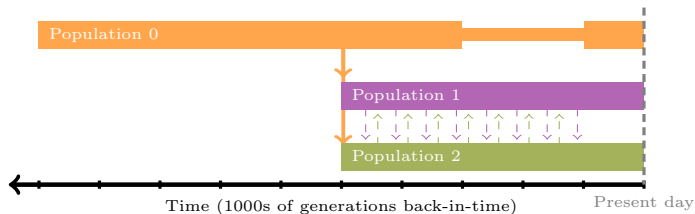
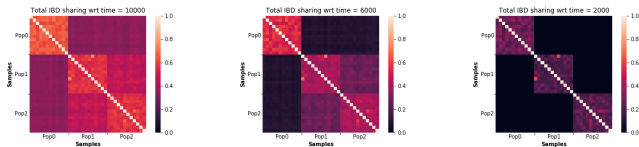
Identity-by-descent (IBD):
Which segments came from the
same ancestral chromosome?



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**.

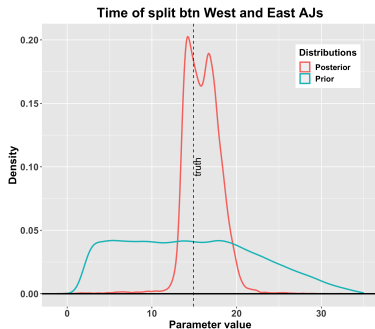
IBD can be extracted from tree sequences



- **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



See me at poster #32!



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