

Coalescent theory

Only slightly fancier

| | <u>Cole-esc</u> cent | <u>coalescent</u> |
|-----------------------------------|---|--|
| time | classes into the future | generations into the past |
| events | dice rolls, one student | coalescences, pairs of individuals |
| rate of events w/ i individuals | i ← students uncalled $\frac{i}{N}$ ← class size | $\frac{\binom{i}{2}}{2N}$ ← $= \frac{1}{2}i(i-1)$, #pairs ↑ if diploid |

Coalescent theory

Watch those factors of 2!

