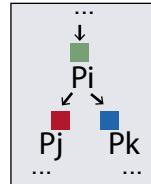
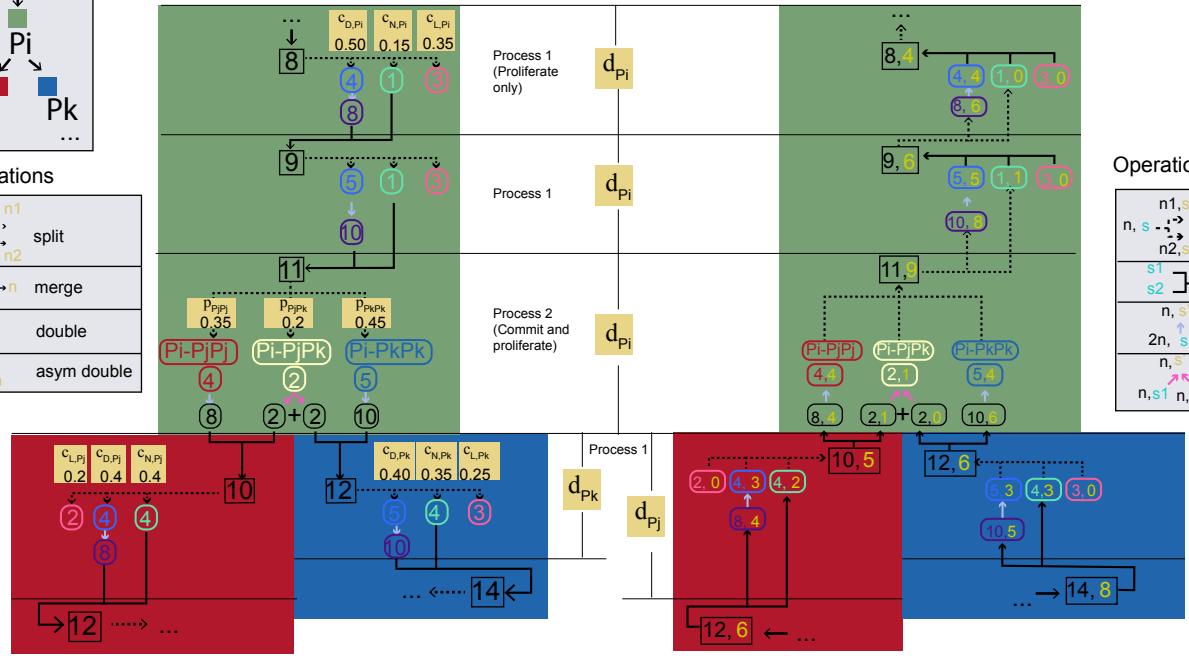


Partial fate map



Step 1: generate count graph (forward propagation)

Count nodes: T D N L DD



Step 2: generate sample size (backward propagation)

Count nodes: T D N L DD

Operations

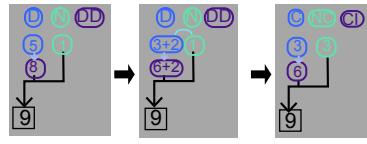
n_1, s_1	stochastic split
$n, s \rightarrow n$	merge
n, s	stochastic coalesce
n, s_1, n, s_2	stochastic asym coal

Operations

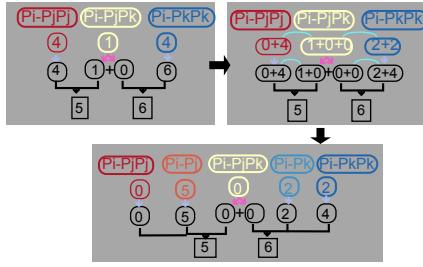
p_1, n_1	split
n_1, n_2	merge
$n, 2n$	double
n, n	asym double

Step 3a: reorganize count graph

Example: reorganize process 1

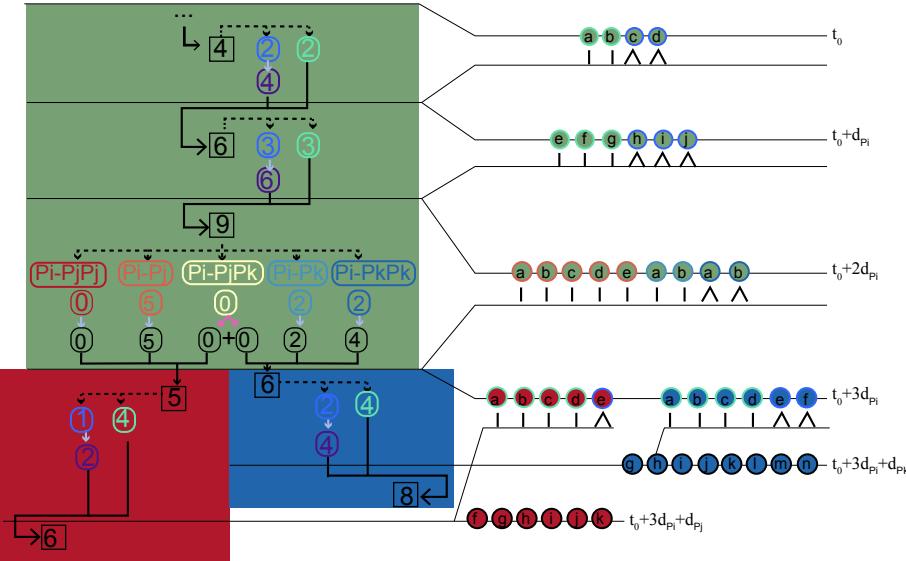


Example: reorganize process 2

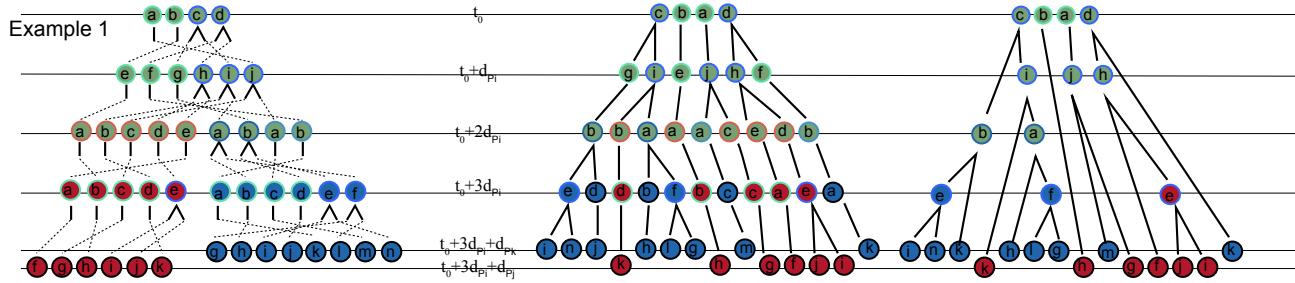


Count nodes: T D N L DD

Step 3b: list tree nodes



Step 4a: connect tree nodes



Step 4b: simplify phylogeny

