

Group connected FS families
(FS families linked by common parents)

For each group of FS families:

For each FS in group separately:

- Get all parental haplotype combinations
- Check each combination against segregation in FS
- Select best parental combinations

Select parental haplotype combinations that fit all FS
in group simultaneously
(removing non-matching FS from group if needed)

Select the set of parental haplotype combinations
that best fits the segregation in all FS in group

Assign a haplotype combination to all FS progeny in
the group matching their marker dosages,
if one possible combination of parental haplotypes is
much more likely than all others

Add all parental haplotypes from all FS groups to
the inventory of haplotypes, for haplotyping of
non-FS samples