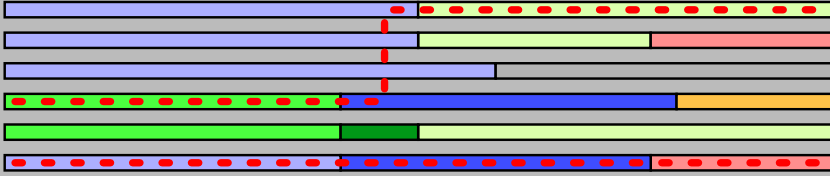


Statistical Phasing



Shapelt,, Beagle

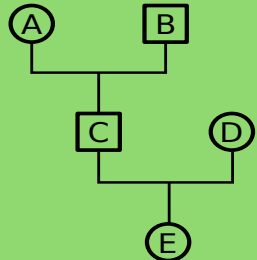
Read-based phasing

synthetic long reads
(TruSeq, 10xGenomics, ...)

3rd-gen. sequencing
(PacBio, ONT, ...)

HapCut, ProbHap,,
WhatsHap
(our previous approach)

Genetic Haplotyping



| | | | | |
|----|-----|-----|-----|-----|
| A: | 0/1 | 1/1 | 0/1 | 0/0 |
| B: | 0/1 | 0/0 | 0/1 | 0/1 |
| C: | 1/1 | 0/1 | 0/1 | 0/0 |
| D: | 0/1 | 1/1 | 1/1 | 0/1 |
| E: | 0/1 | 0/1 | 0/1 | 0/0 |

Haploscribe,, Merlin