

ROSBREED

Enabling marker-assisted breeding in Rosaceae

Pedimap

Graphical presentation of
genetic information in pedigrees

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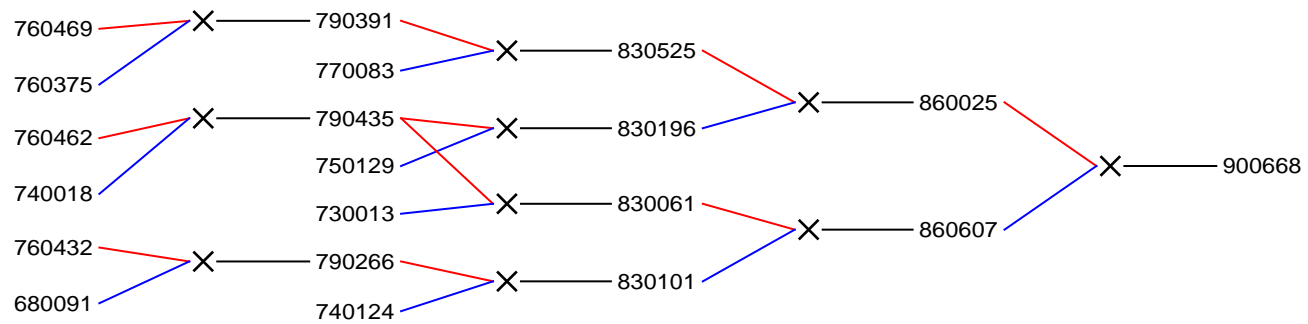
Why Pedimap?

- Pedimap presents results graphically
 - intuitive, easier to discover relations
- Pedimap is integrated with FlexQTL
 - Exports datafiles in FQ format
 - Completes dataset by adding missing data
 - Imports files from FQ
 - Diagnosis of marker errors and contradictions
 - Computed Identity-by-Descent probabilities

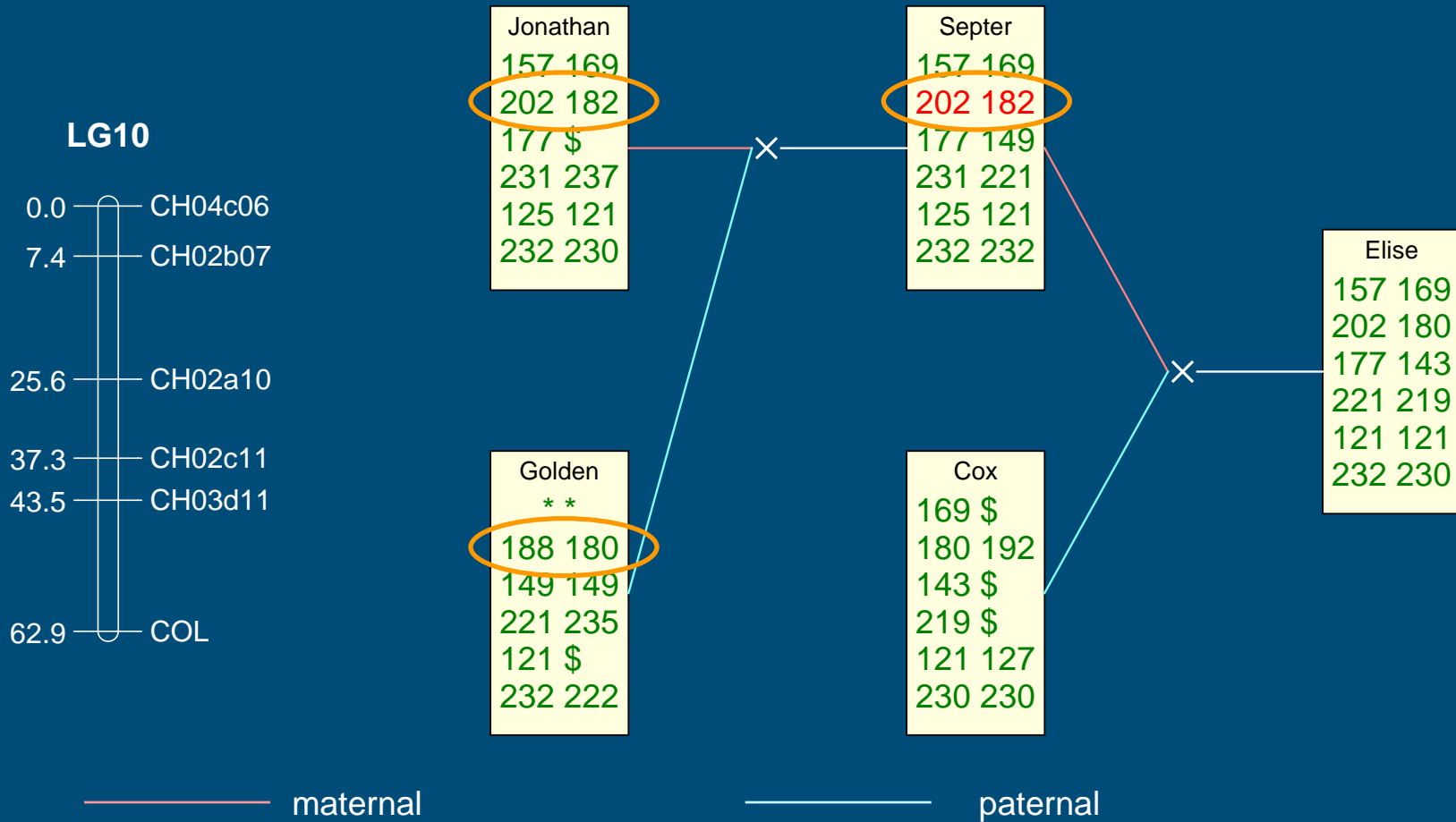
What can Pedimap present

- Overview of pedigree structure
- Selections based on family relationships
 - ancestors and offspring to n generations, sibs, etc.
- Per individual:
 - scored marker alleles
 - IBD probabilities of founder alleles
 - phenotypic traits
- ... other possibilities can be considered

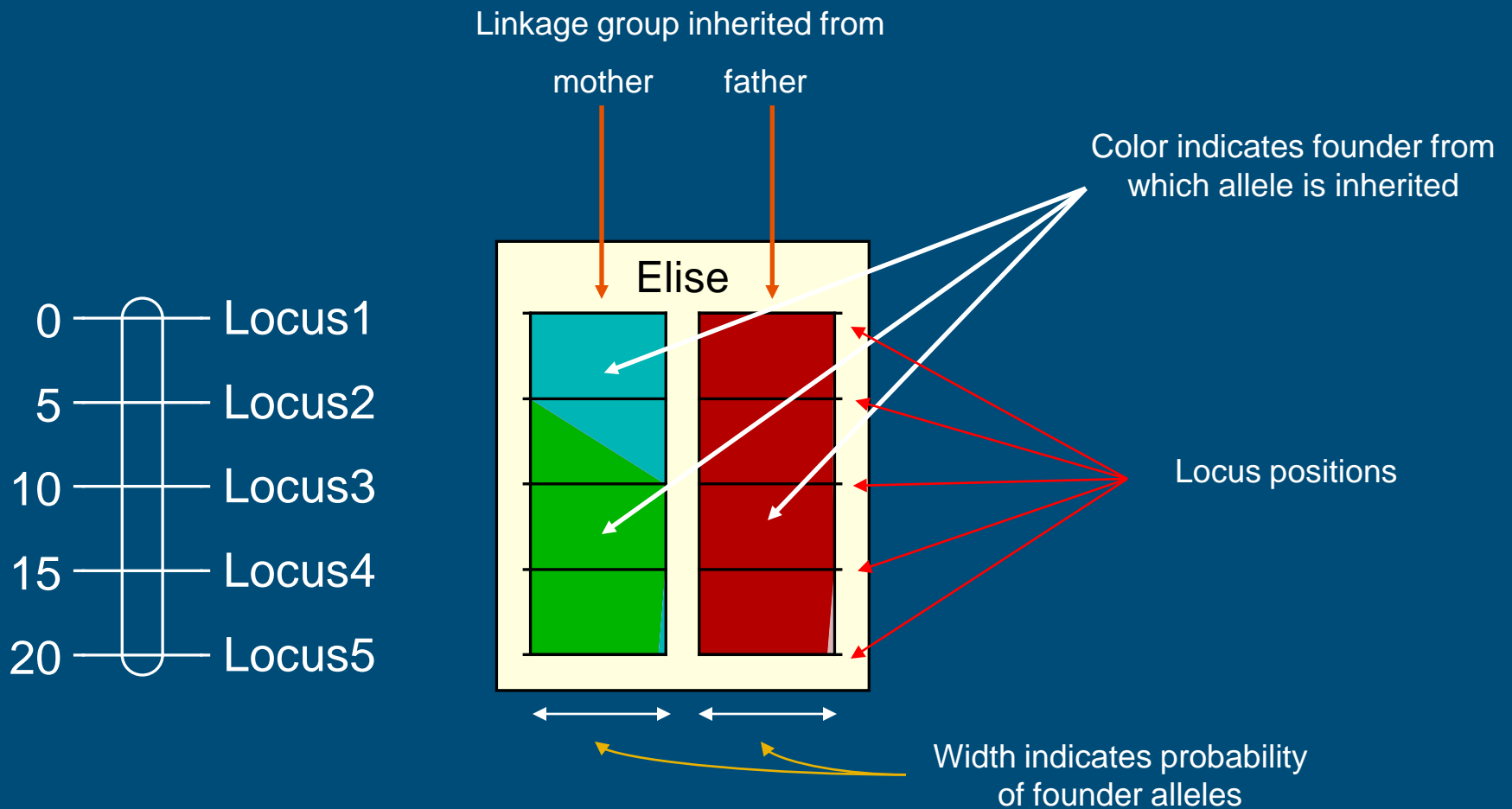
Selection overview



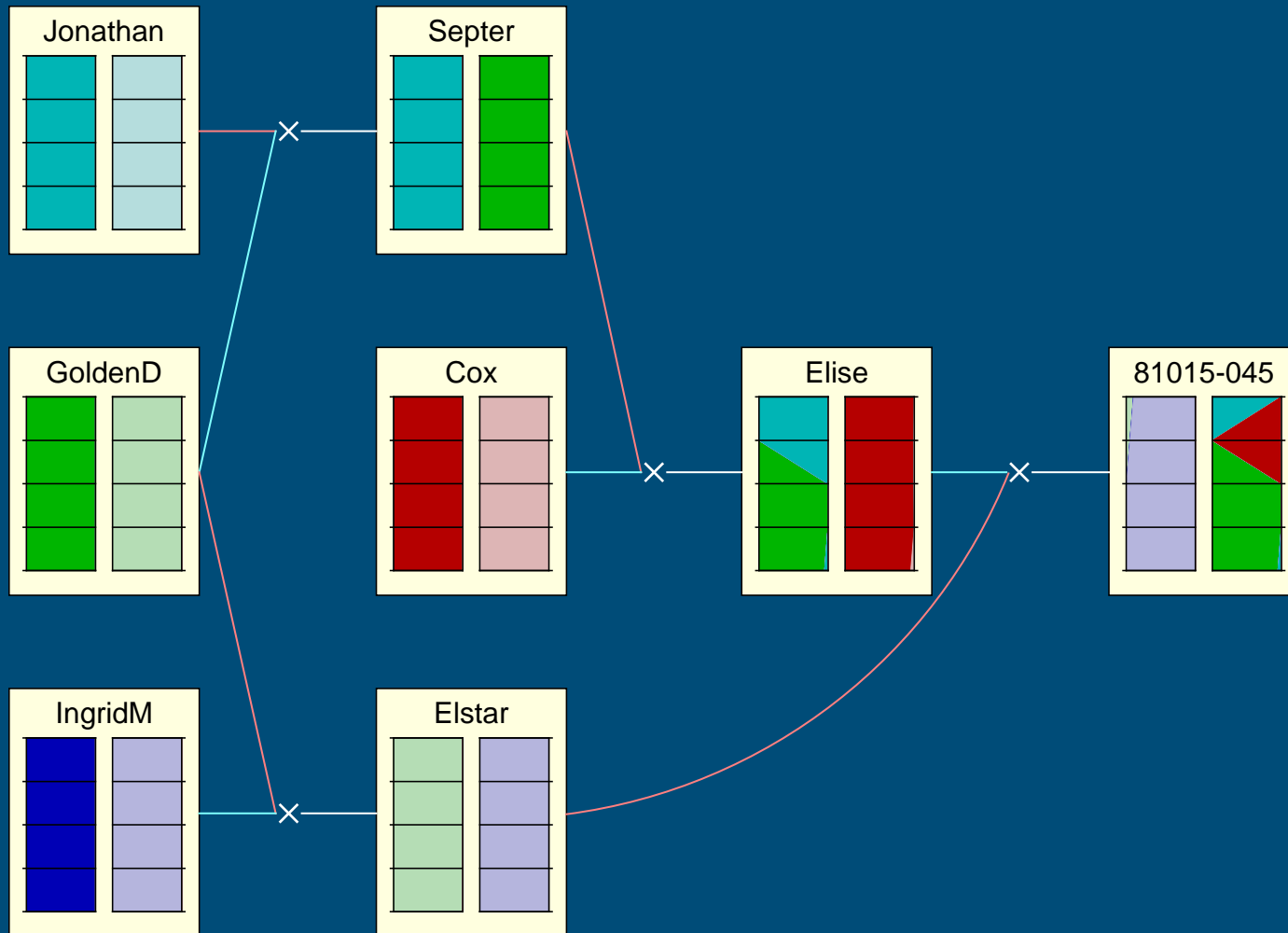
Marker allele scores



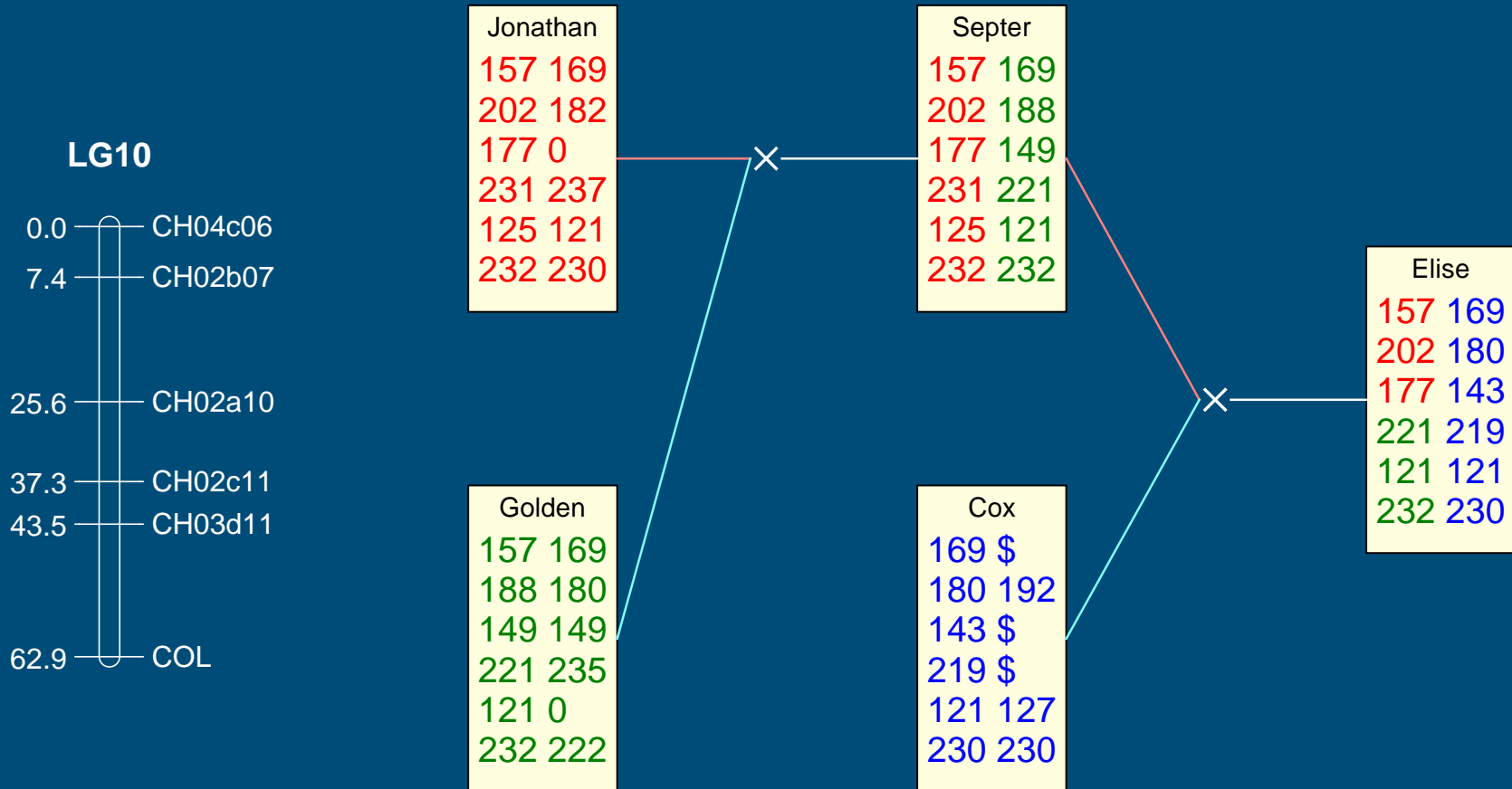
IBD probabilities: explanation



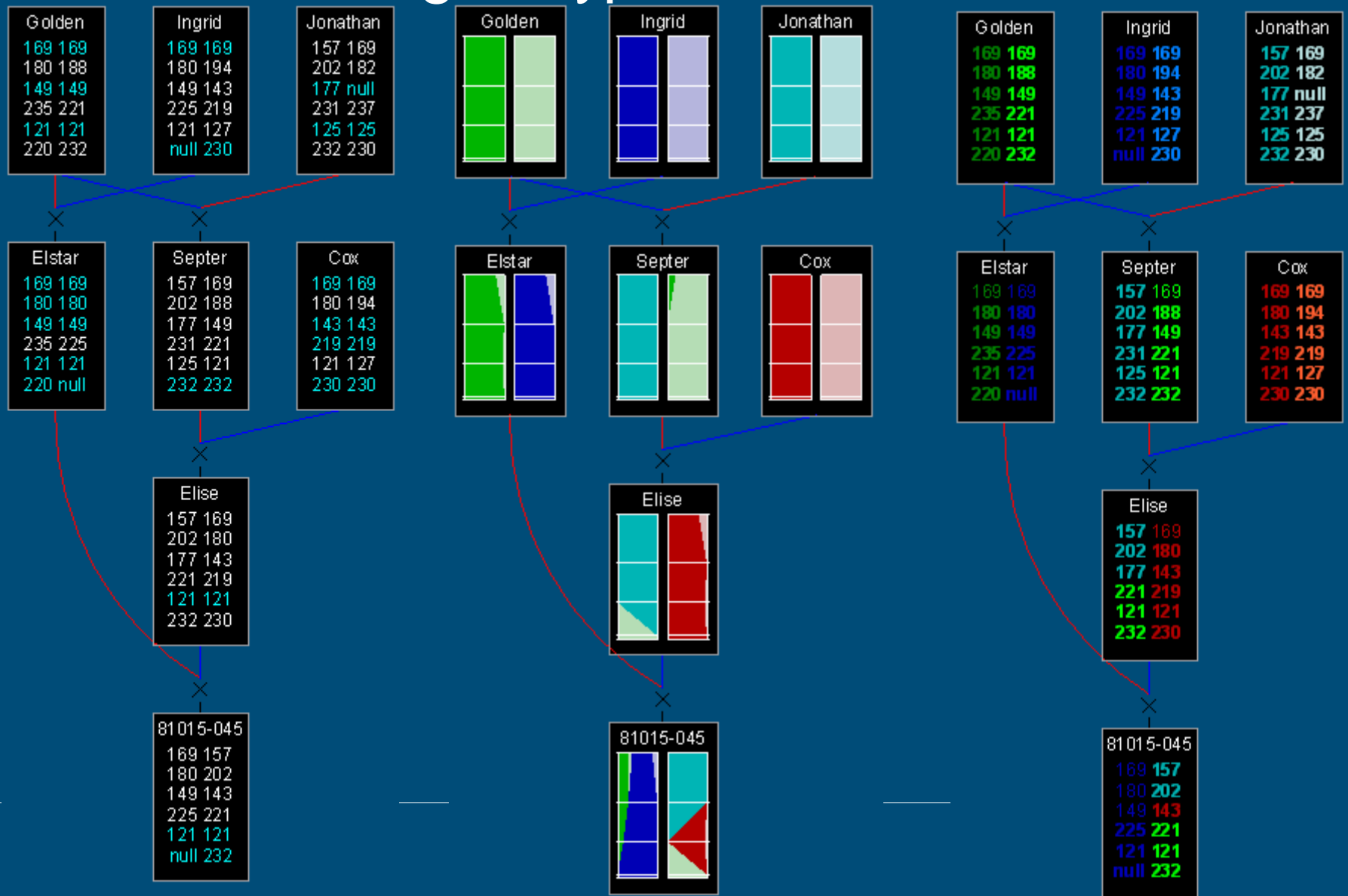
IBD probabilities



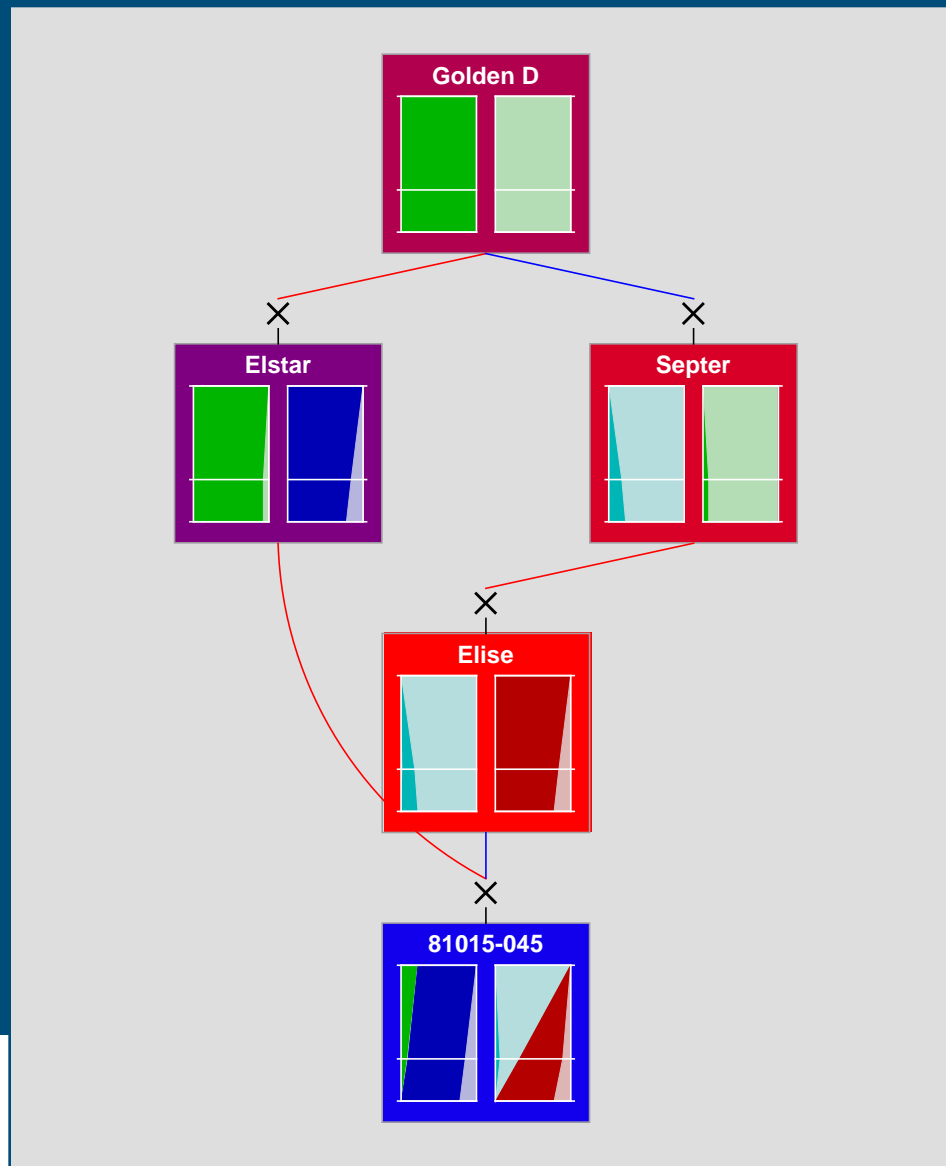
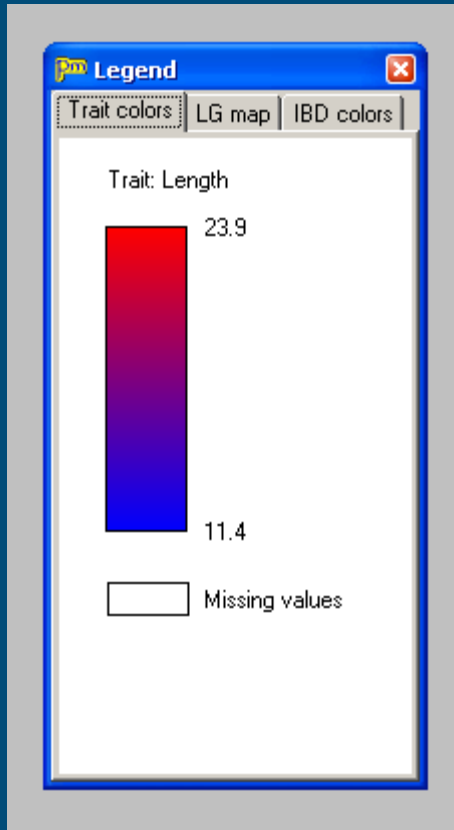
Most probable IBD alleles



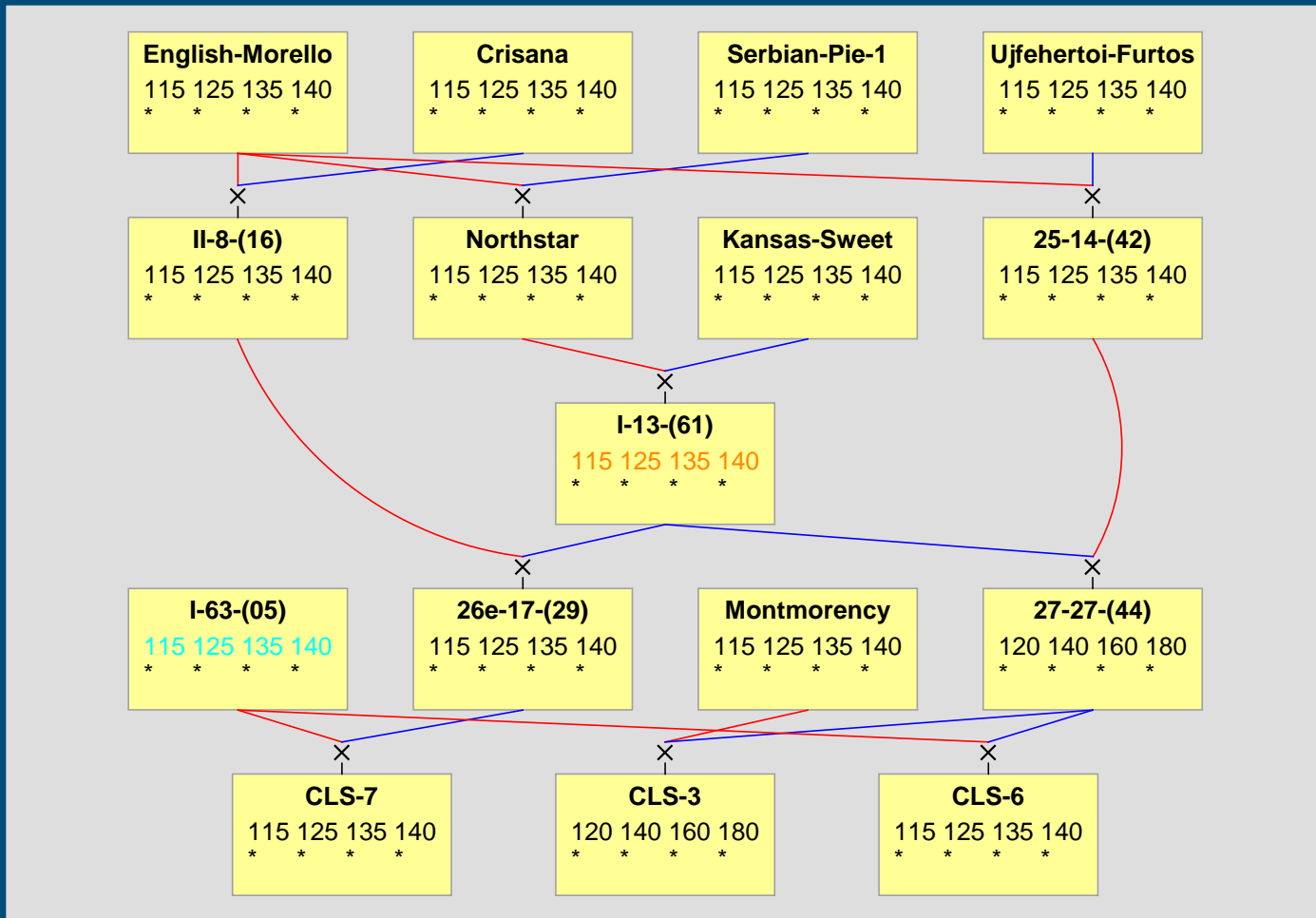
Three views of genotypic data



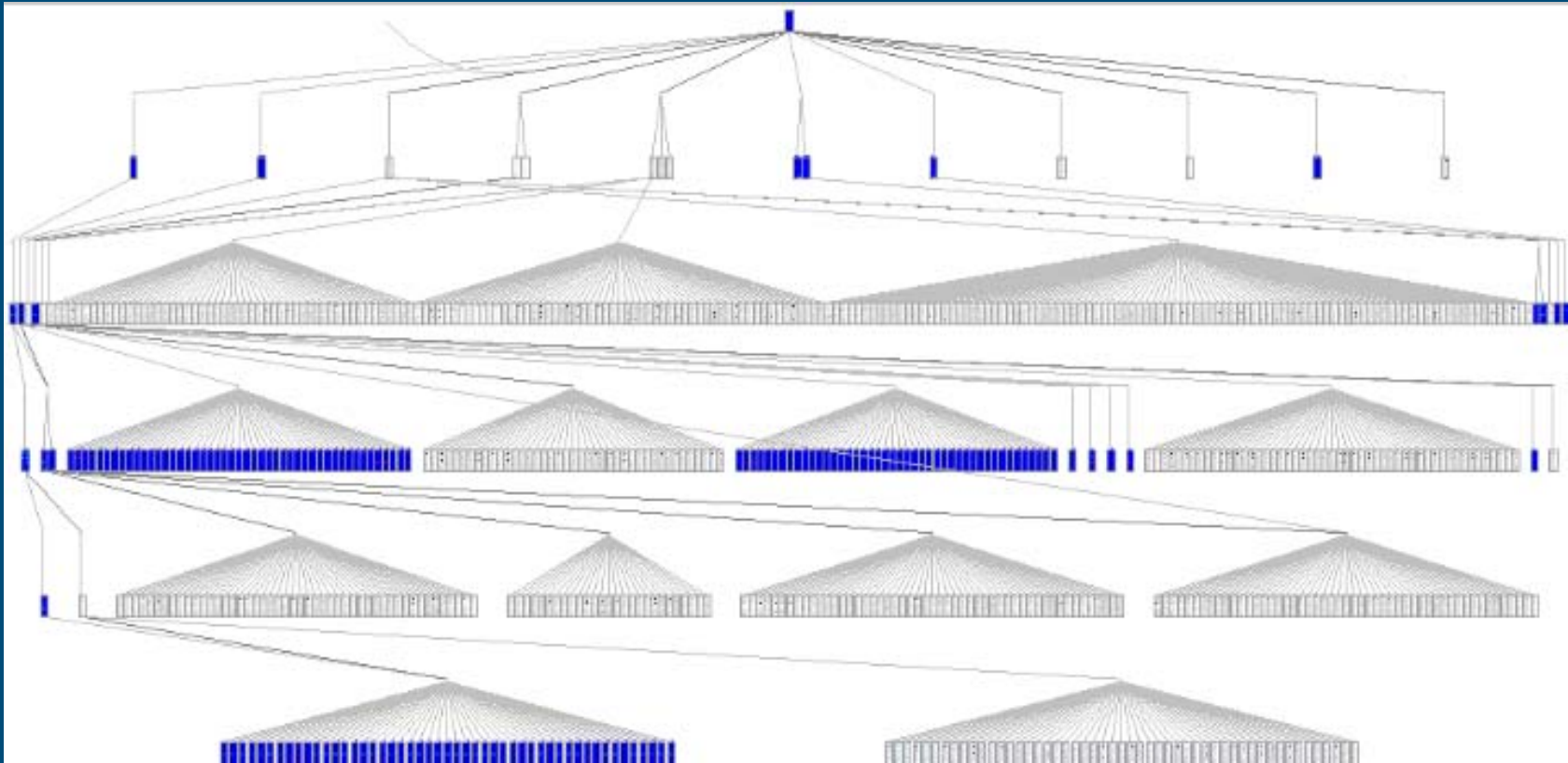
Phenotypic trait values



Polypoidy is supported



Maternal line: cytoplasm inheritance



Delicious by maternal line

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Acknowledgements



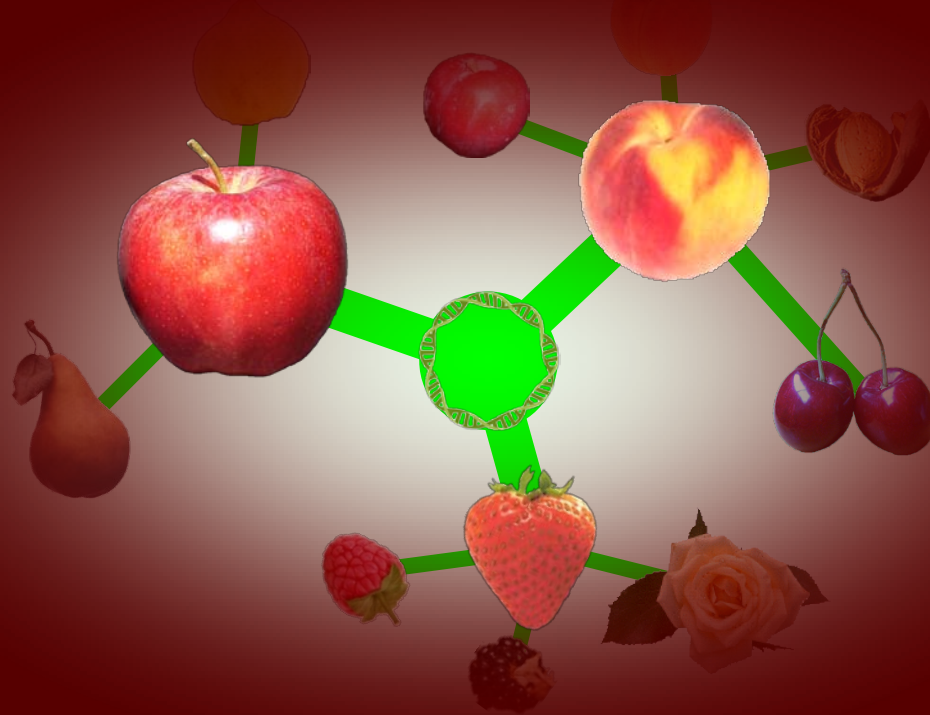
United States Department of Agriculture
National Institute of Food and Agriculture

This project was supported by the Specialty Crops Research Initiative of USDA's National Institute of Food and Agriculture



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Questions?