How I learned to quit worrying

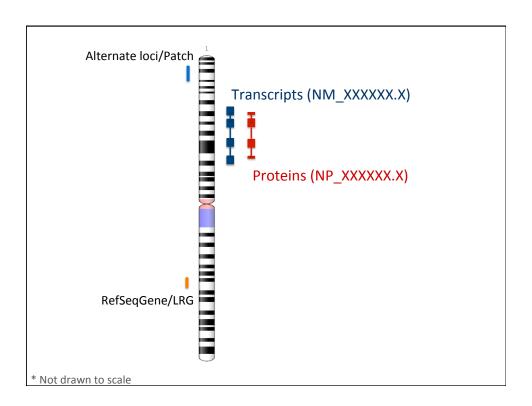
And love multiple coordinate systems

Deanna M. Church Senior Director of Genomics and Content Personalis, Inc

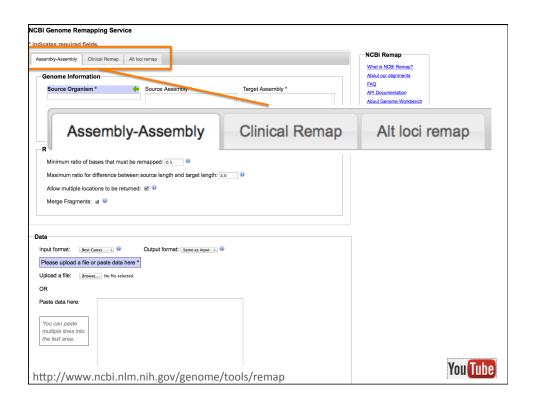


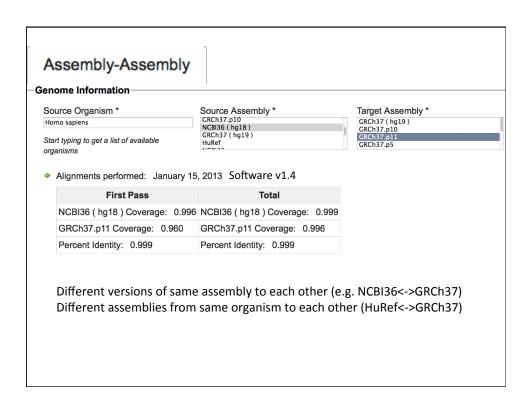
@deannachurch

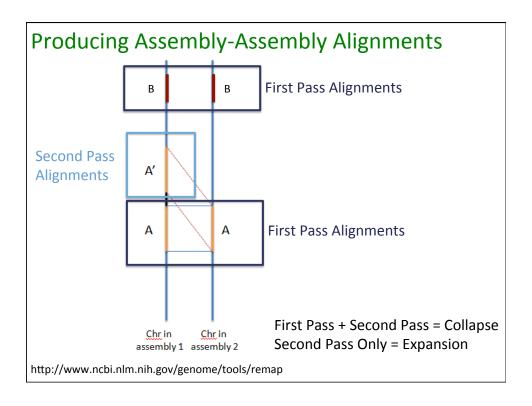
Short Course in Medical Genetics 2013

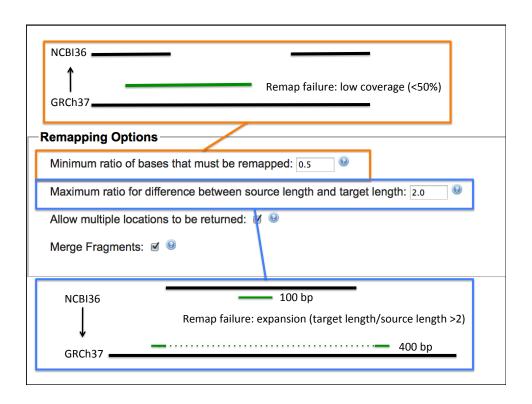


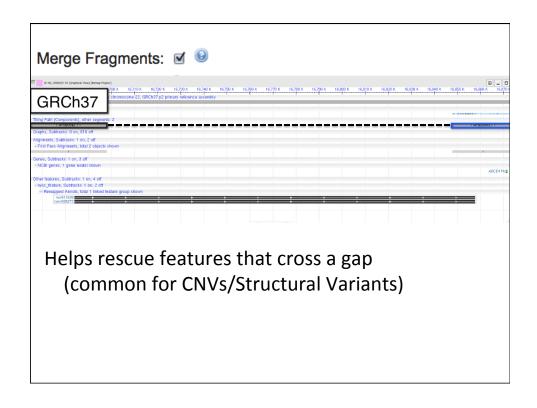
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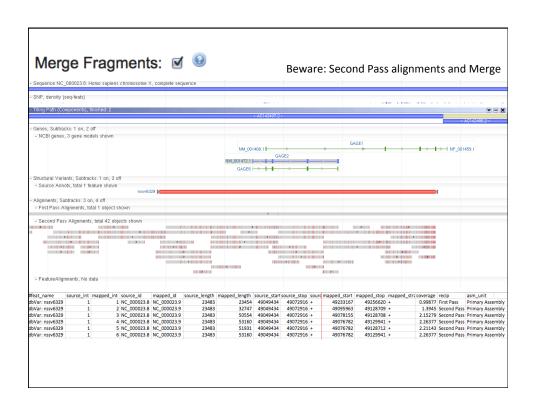












Remap Output

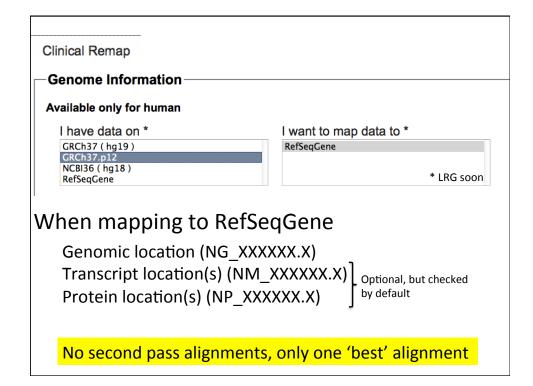
Summary data: Quick overview of how well your features mapped

Mapping report: Detailed report containing all of your input features and their source location, target location (or reason for failure) and coverage score.

Annotation File: An annotation file of only the features that successfully remapped. Suitable for loading to most browsers.

Genome Workbench file: A file formatted for loading to Genome Workbench (a client side browser). Includes assembly-assembly alignments for review.

Genome Workbench videos You Tube



Alt loci remap			
Genome Information			
Organism *		Select Assembly *	
Homo sapiens	4	GRCh37.p13	\$

Maps features:

From Primary Assembly -> Alternate Loci/Patches (common) From Alternate Loci/Patches->Primary Assembly

No second pass alignments, only one 'best' alignment

Take home messages

- STools are available for mapping features from one coordinate system to another.
 - SAssembly <-> Assembly
 - S Assembly <-> RefSeqGene
 - Primary Assembly <-> Alternate Loci/Patches
- Seferiture remapping is NOT a substitute for *de novo* annotation.