

Genome Variant Analysis 2015

What makes humans (and other large genomes) more difficult to work with

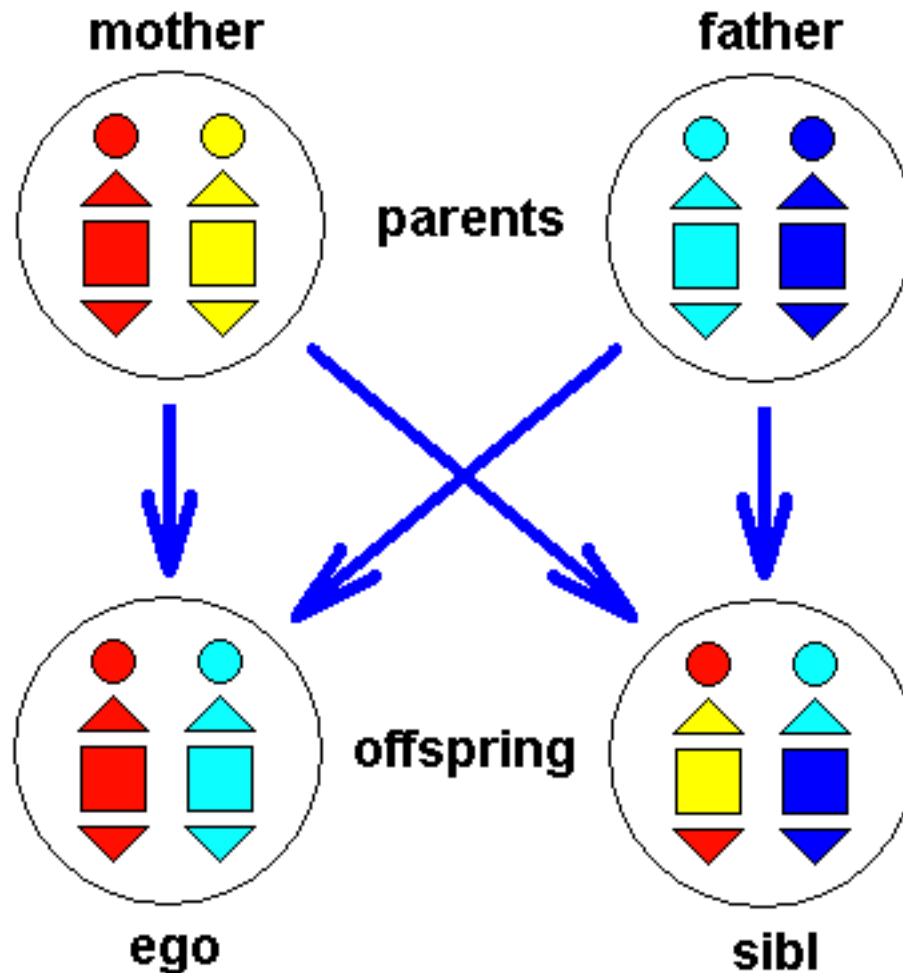
Just how much bigger is the human genome than *E coli*?

- ← actual
- ← 10x

Human (~700X larger)

Diploids Genetics

fully diploid



Ways to make it better

- Genome Reduction Efforts
 - Exome “capture”
 - Roche/nimblegen
 - IDT
 - ddRAD
 - Brant et al PLOSOne, 2012
- Leveraging other knowledge
 - pedigrees