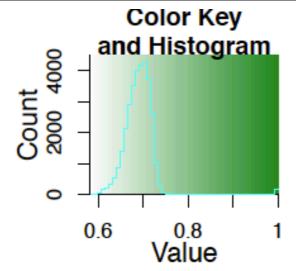
Local event-based analysis: pipeline

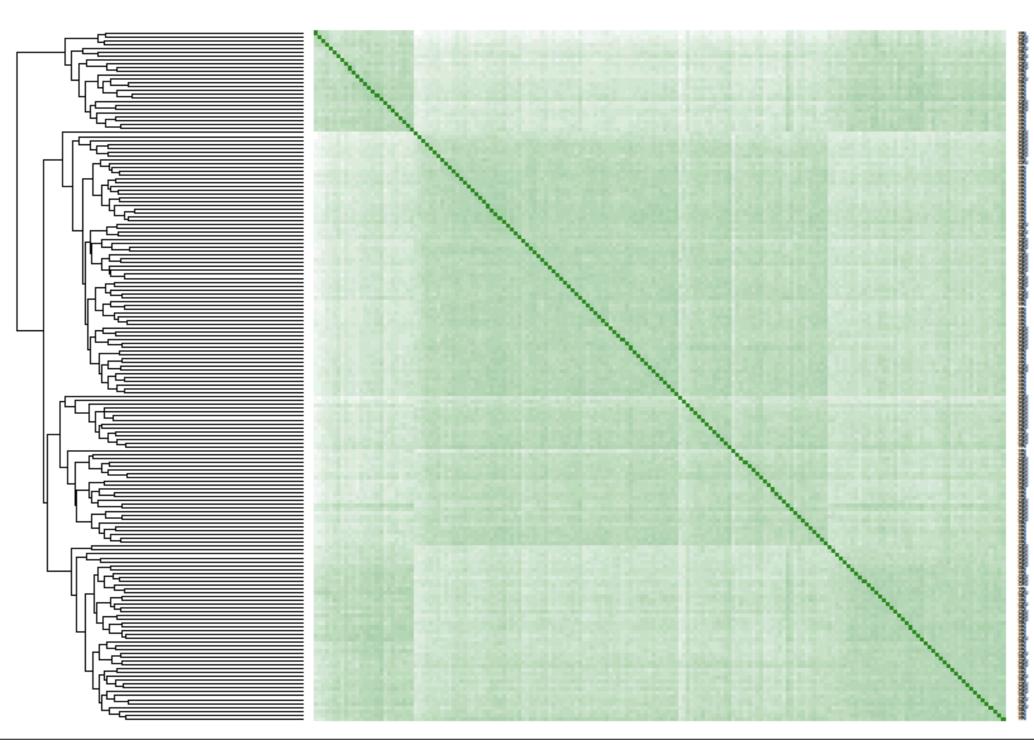
- 0. Refine transcript models using RNA-seq
- I. Get orthologous gene annotation for each species, match exon/splice
- 2. Build composite gene models and splicing graphs, define local events
- 3. Count reads compatible with either event, estimate relative expression levels
- 4. Test for differential alternative transcript usage
- T test/Wilcoxon test of exon inclusion levels [CEUVSYRI 212/214 (BHP<=0.05)]

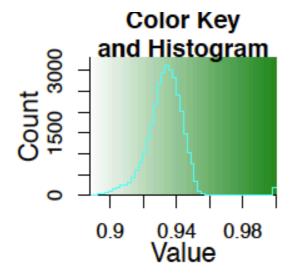
- Generalized linear model on exon inclusion reads, normalized for total reads at each locus [CEUVSYRI 325 (BHP<=0.05)]

205 10 21 89 30 Wilco



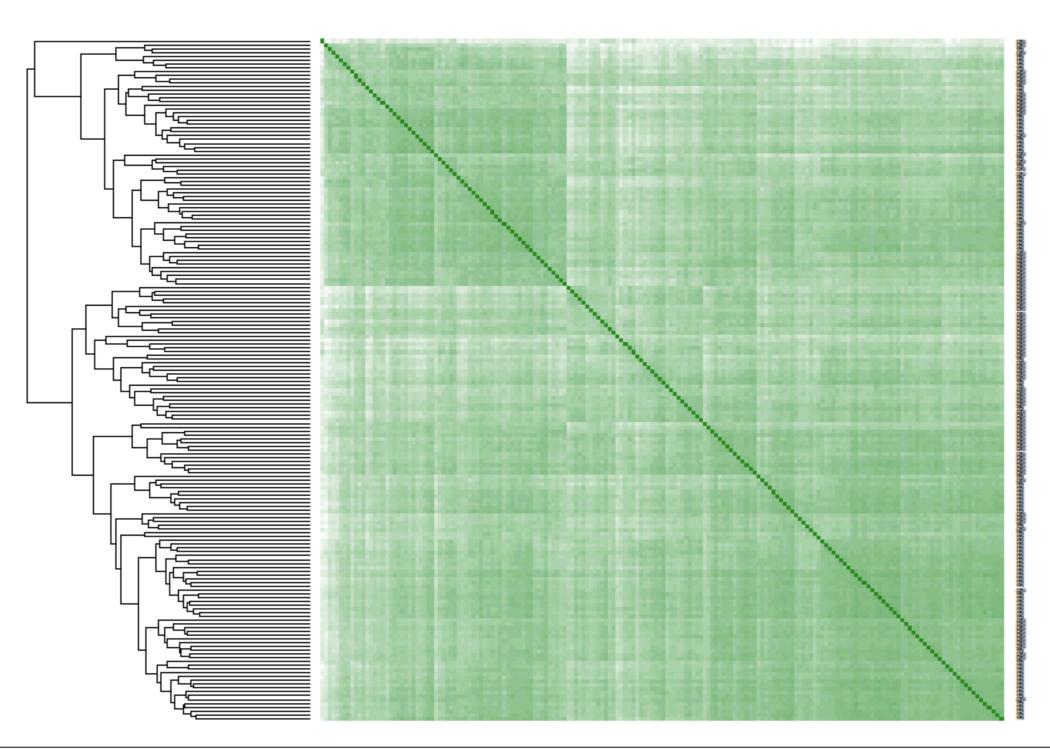
Spearman_cor dist=1-cor

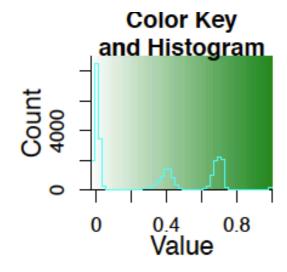




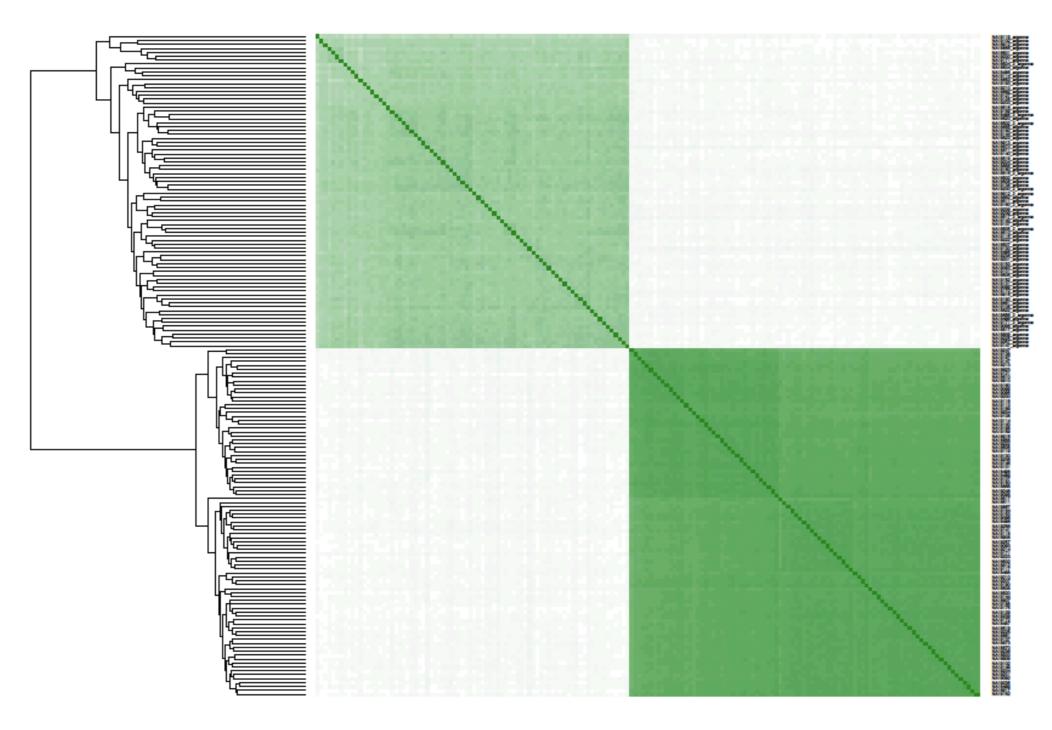
Spearman_cor dist=1-cor

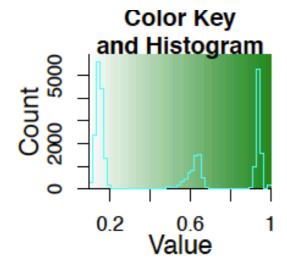
CEU VS YRI Total read counts



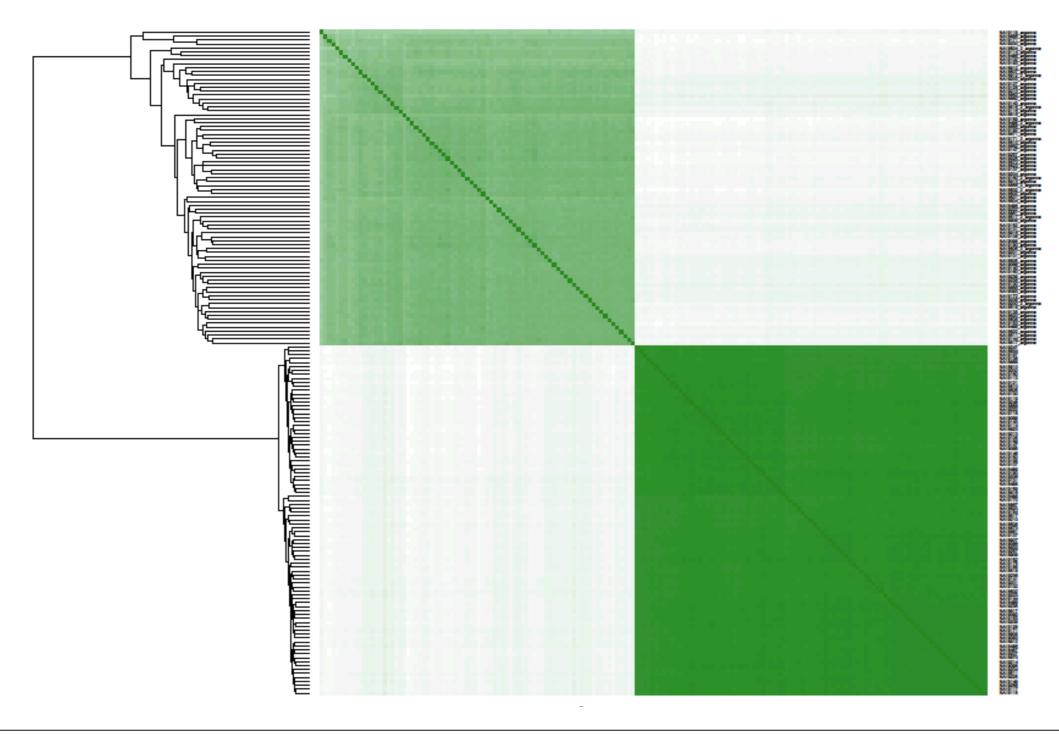


Spearman_cor dist=1-cor





Spearman_cor dist=1-cor



Estimation of alternative splicing variability in human populations

Mar Gonzàlez-Porta, 1,5 Miquel Calvo, 2 Michael Sammeth, 1,3 and Roderic Guigó 1,4,6

