

Use defaults Sets --use-reference-allele and --reference-quality options Allelic scope options Set alleic scope options Sets -I, i, -X, -u, -n, --haplotype-length, --min-repeat-size, --min-repeat-entropy, and --no-partial-observations options False Ignore indels alleles (--no-indels) Ignore multi-nucleotide polymorphisms, MNPs (--no-mnps) Ignore complex events (composites of other classes) (--no-complex) Mow many best SNP alleles to evaluate \* 0 Alleles are ranked by the sum of supporting quality scores. Set to  $\bf 0$  to evaluate all (--use-best-n-alleles) 0 (--haplotype-length) When assembling observations across repeats, require the total repeat length at least this many bp \* 5 (--min-repeat-size) To detect interrupted repeats, build across sequence until it has entropy > (bits per bp) \* (--min-repeat-entropy) Exclude observations which do not fully span the dynamically-determined detection window By default, FreeBayes uses all observations, dividing partial support across matching haplotypes when generating haplotypes (--nopartial-observations) Turn off left-alignment of indels False (--dont-left-align-indels) Input filters No input filters (default) Sets -4, -m, -q, -R, -Y, -Q, -U, -z, -\$, -e, -0, -F, -C, -3, -G, and -! options Population and mappability priors Set population and mappability priors Sets -k, -w, -V, and -a options No population priors Equivalent to --pooled-discrete --hwe-priors-off and removal of Ewens Sampling Formula component of priors (--no-population-Disable estimation of the probability of the combination arising under HWE given the allele frequency as estimated by observation frequency (--hwe-priors-off) Disable incorporation of prior expectations about observations Uses read placement probability, strand balance probability, and read position (5"-3") probability (--binomial-obs-priors-off) Disable use of aggregate probability of observation balance between alleles as a component of the priors (--allele-balance-priors-off) Genotype likelihood options Use defaults Sets --base-quality-cap, --experimental-gls, and --prob-contamination options

Sets --report-genotypes-likelihood-max, -B, --genotyping-max-banddepth, -W, -N, S, -j, -H, -D, -= options

Algorithmic features
Use defaults