Experiment 1: Bulk concordance

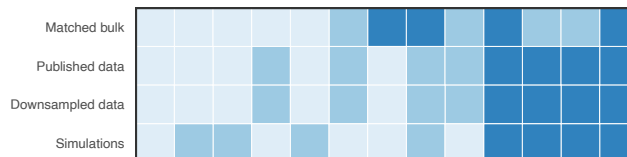Matched bulk

Experiment 2: Multiome concordance

Multiome

Multiome GO
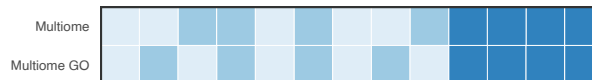
Experiment 3: False discoveries

Published data

Downsampled data

Simulations

Experiment 4: Biases

Matched bulk

Published data

Downsampled data
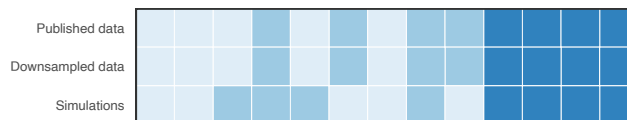
Simulations

Experiment 8: Scalability

Runtime, matched bulk

Runtime, multiome

Memory, matched bulk

Memory, multiome

Summary

Negative binomial, LR_{peaks}, Wilcoxon rank-sum test, t test, Fisher exact test, $LR_{clusters}$, Binomial, Permutation test, SnapATAC::findDAR, edgeR-LRT, DESeq2-Wald, edgeR-QLF, DESeq2-LRT
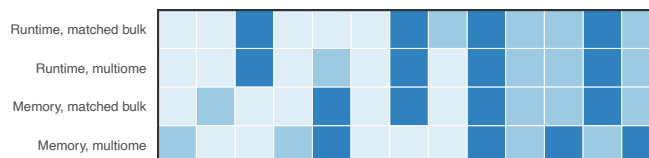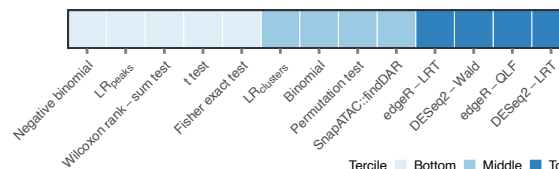
Tercile: Bottom, Middle, Top