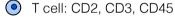
Expression count matrix for heterogeneous population

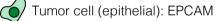




Prior knowledge of marker genes

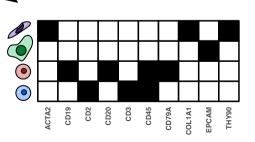


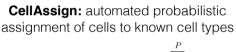




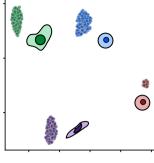
Fibroblast: COL1A1, ACTA2, THY90

Binarization

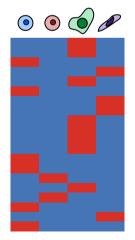




 $\log \mu_{ngc} = \log s_n + \delta_{gc}\rho_{gc} + \beta_{g0} + \sum_{n=1}^{\infty} \beta_{gp} x_{pn}$



Cell type assignments



Probabilities