




Prior knowledge of marker genes

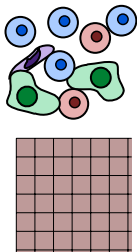
 T cell: CD2, CD3, CD45

 B cell: CD19, CD20, CD79A, CD45

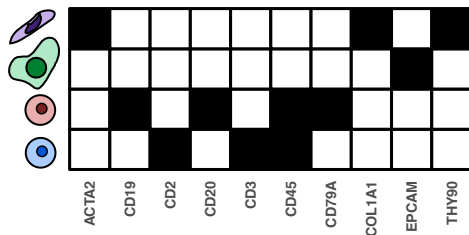
 Tumor cell (epithelial): EPCAM

 Fibroblast: COL1A1, ACTA2, THY90

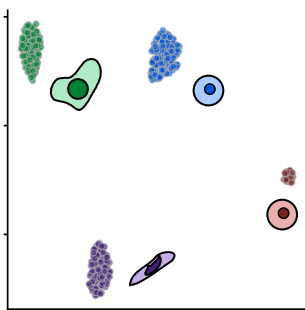
Count matrix for heterogeneous data



Binarization



CellAssign: automated probabilistic assignment of cells to known cell types



Cell type assignments



Probabilities