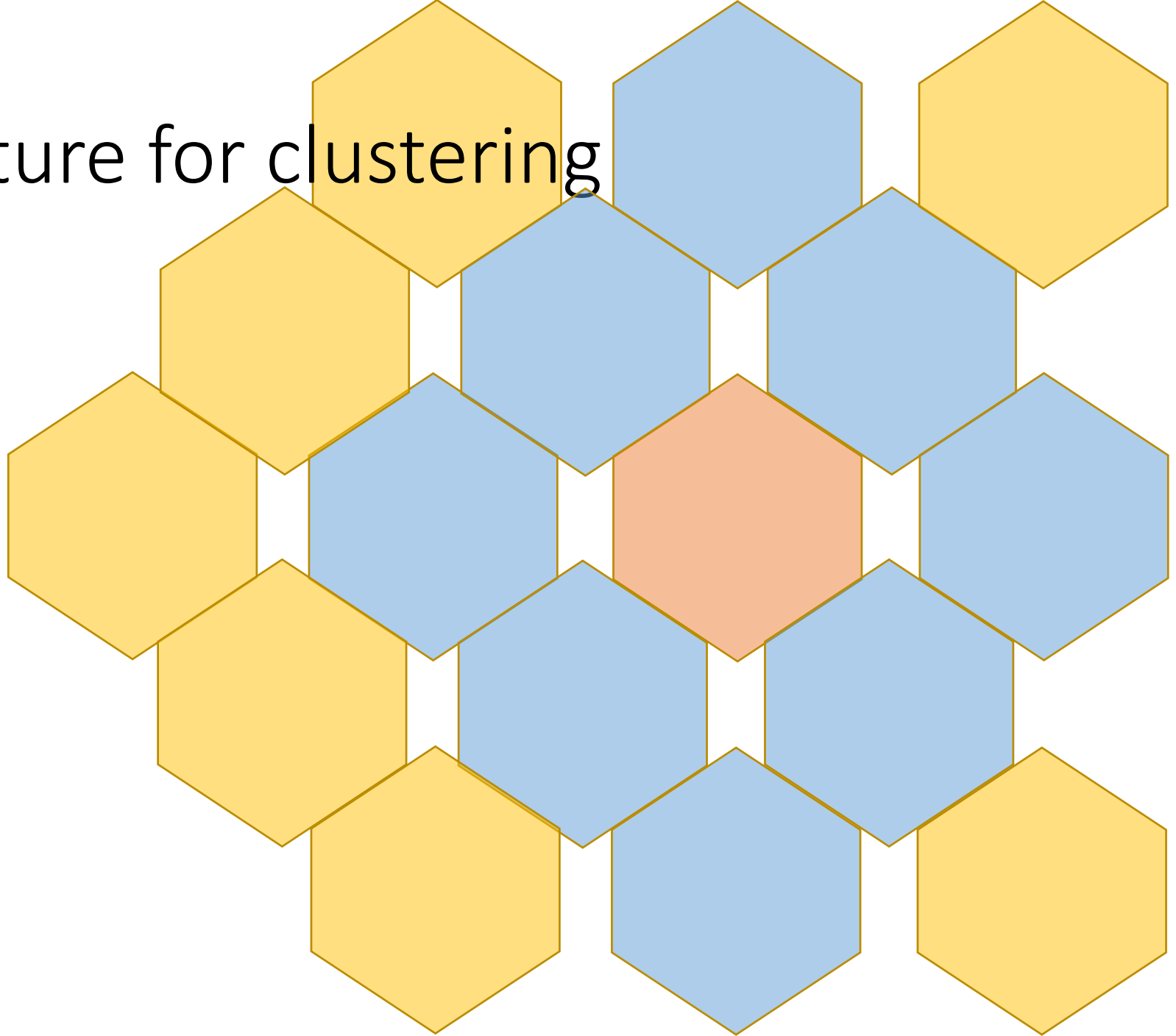


MCC data spatial clustering and deconvolution

3/23

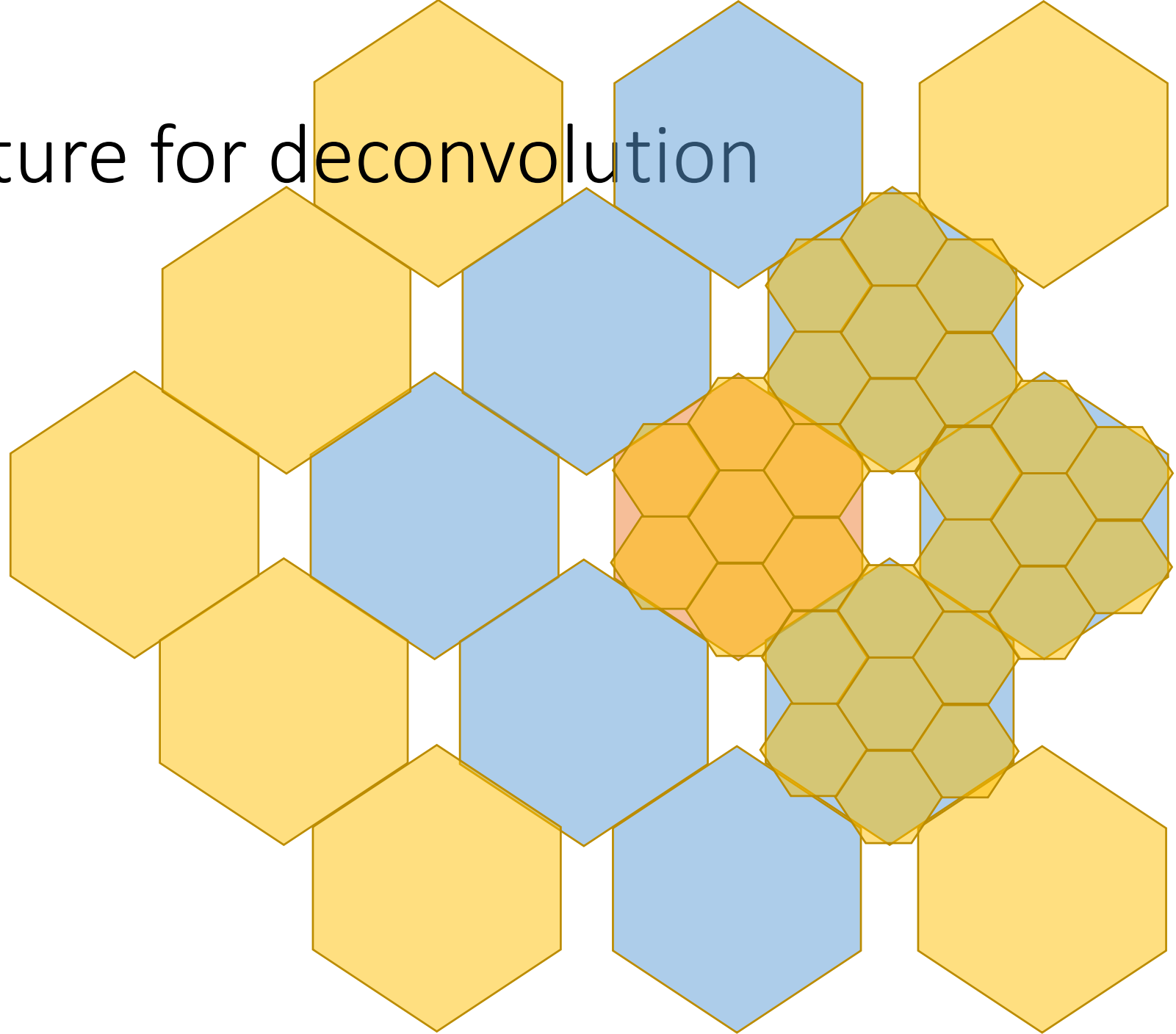
Neighbor structure for clustering

- For any given capture location (orange), we have up to 8 neighboring capture locations (blue) if we use L_1 distance



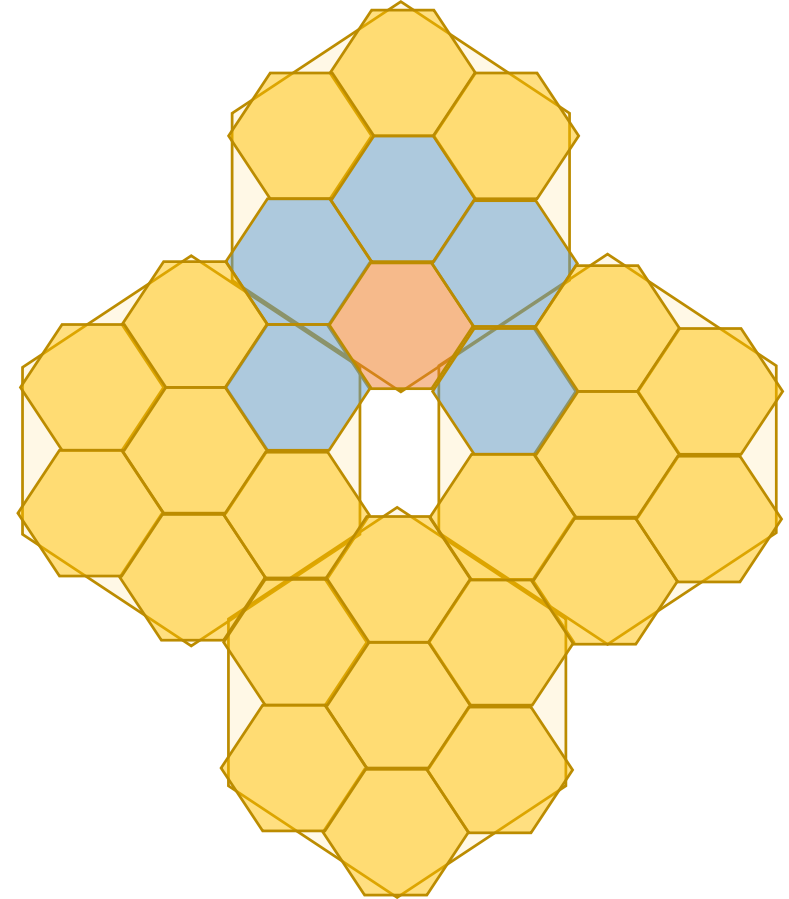
Neighbor structure for deconvolution

- Each capture location is split into 7 “cells”

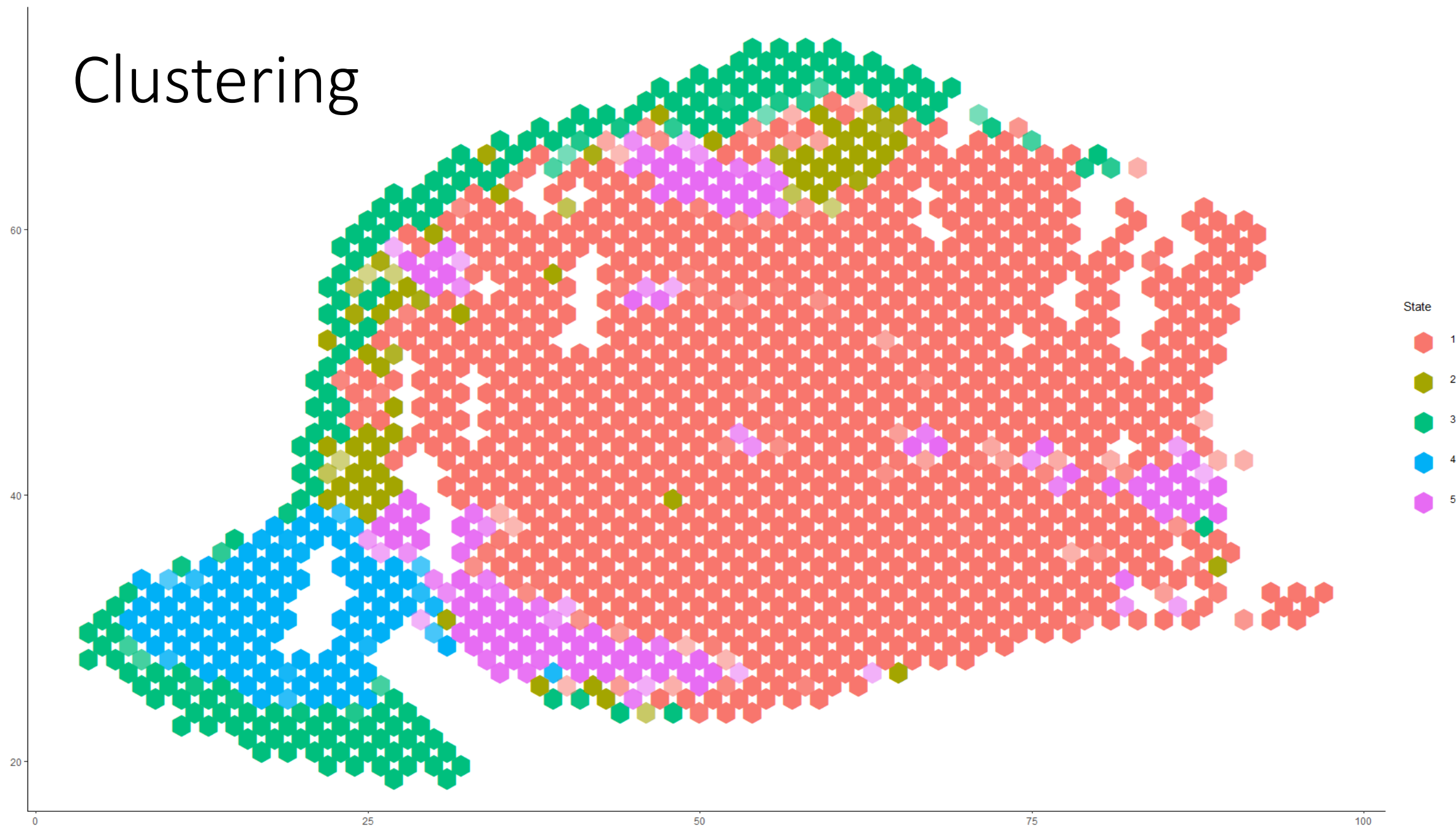


Neighbor structure for deconvolution

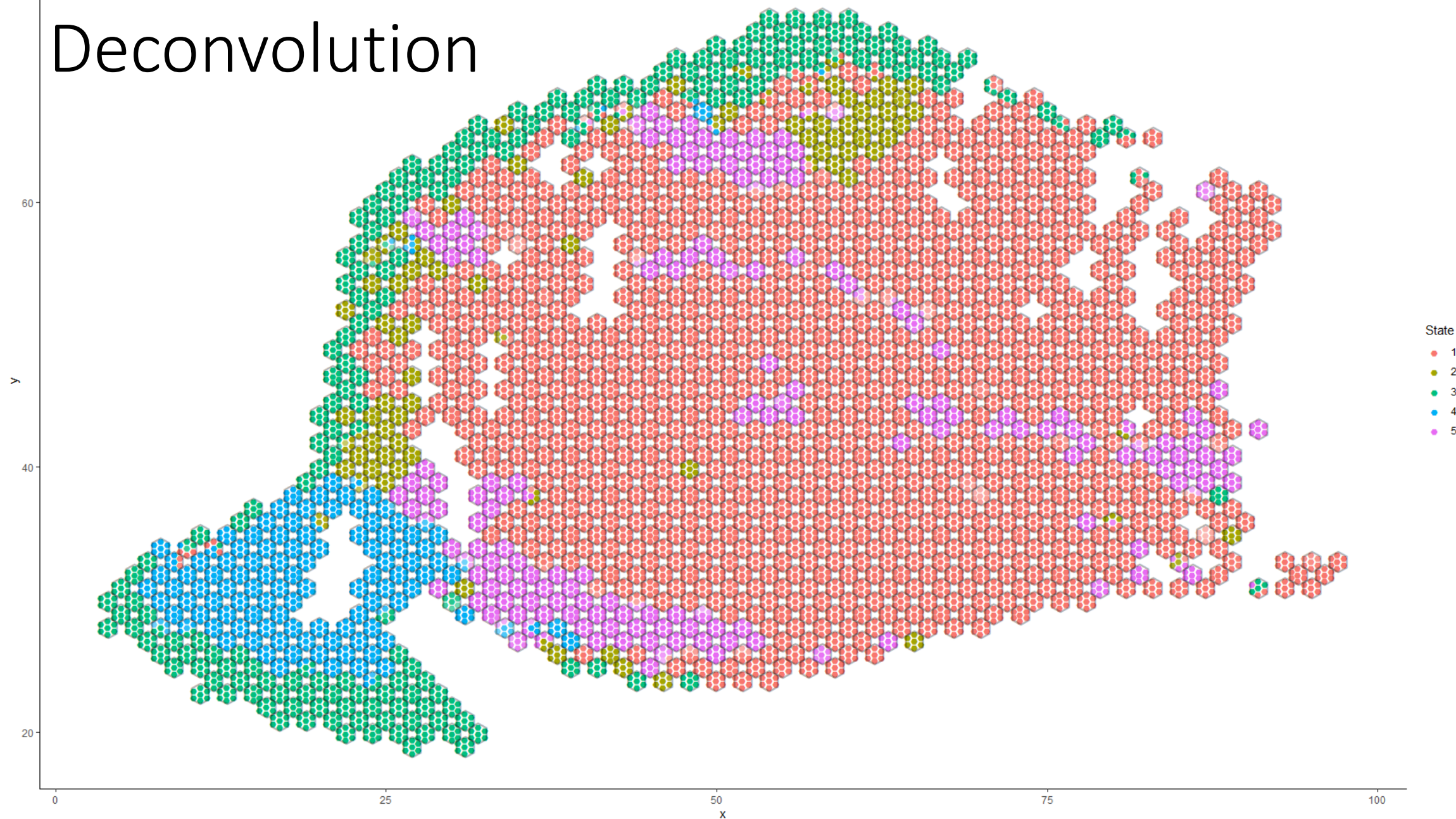
- For any given cell (orange), we have up to 6 neighboring capture locations (blue)



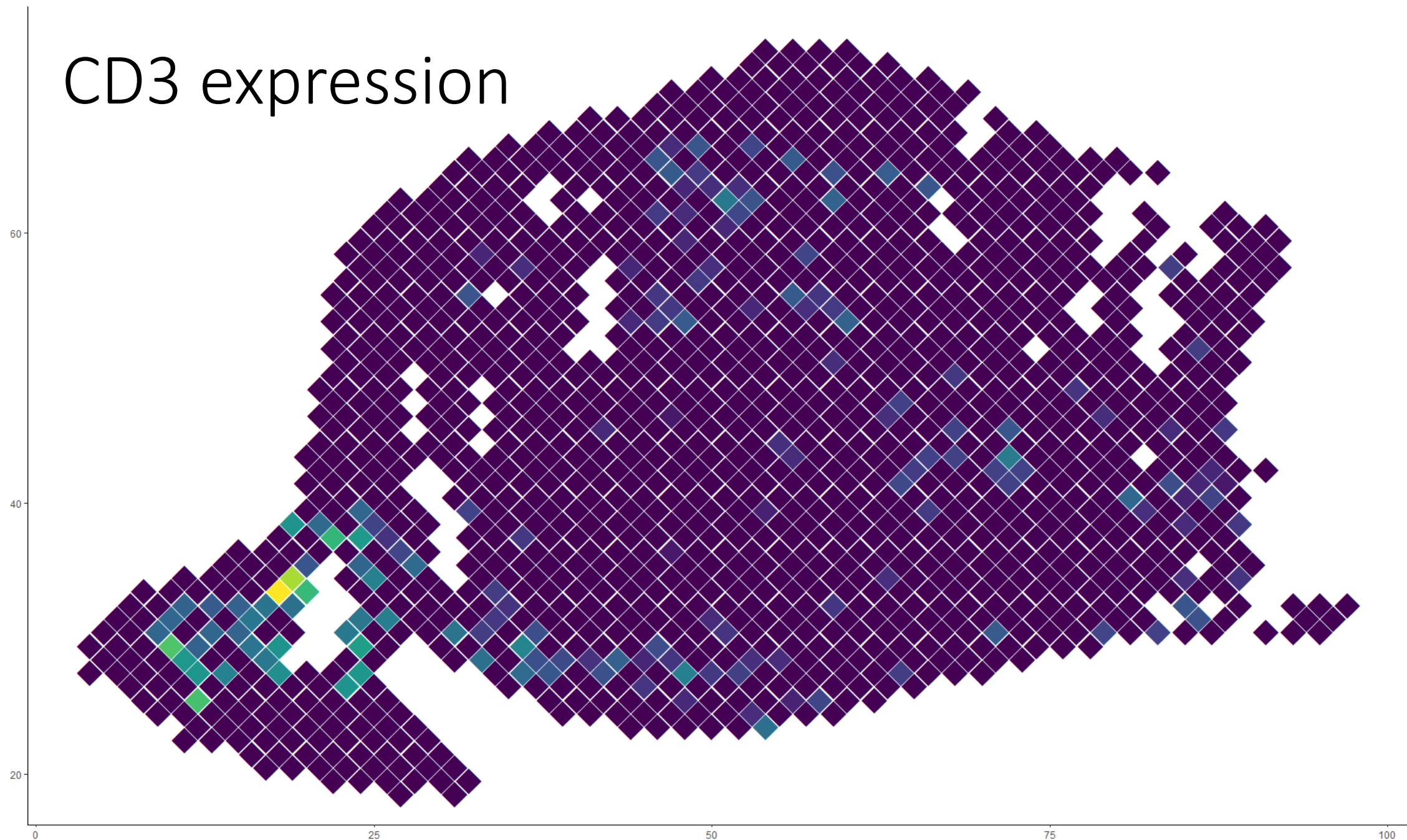
Clustering



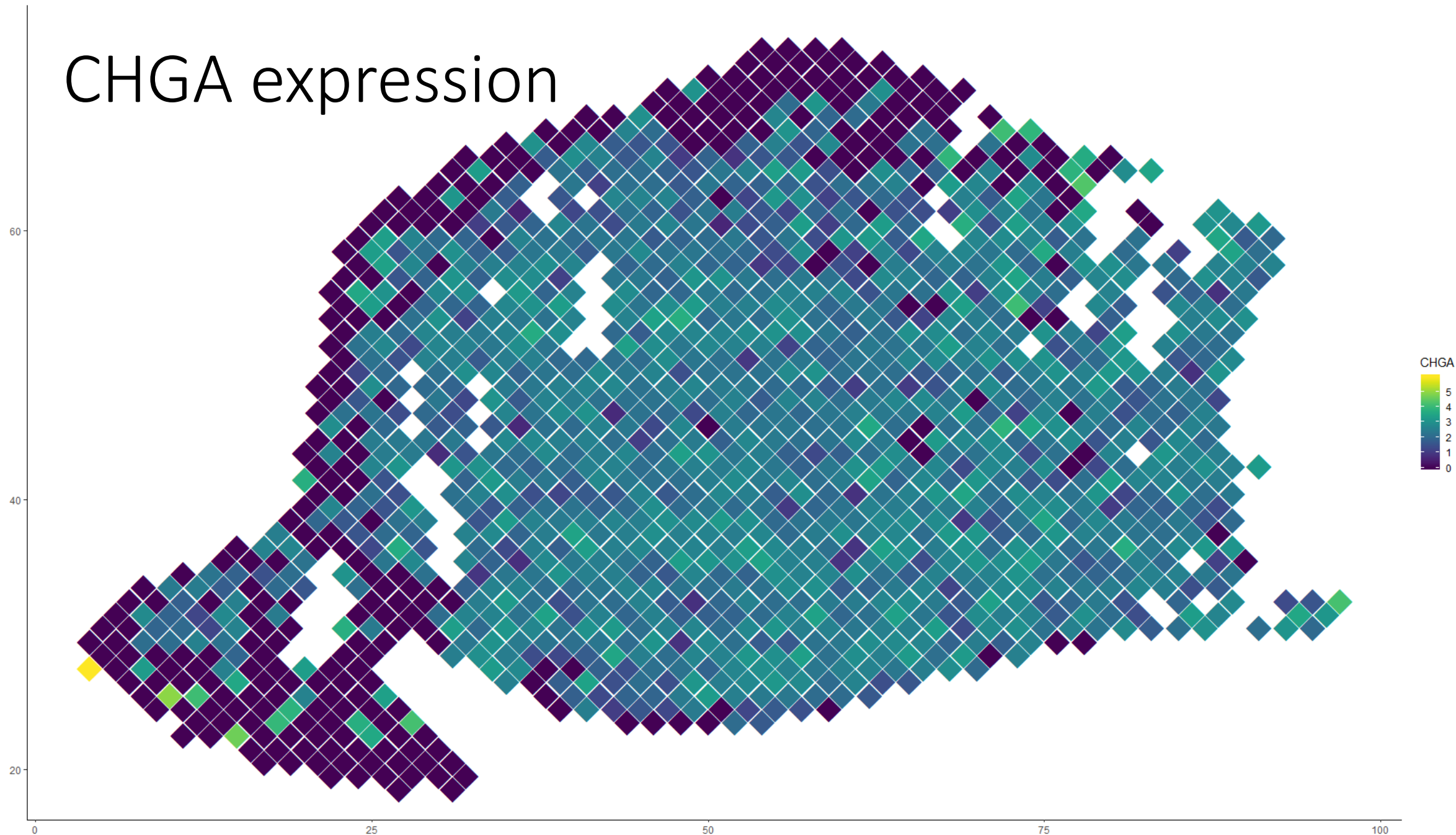
Deconvolution



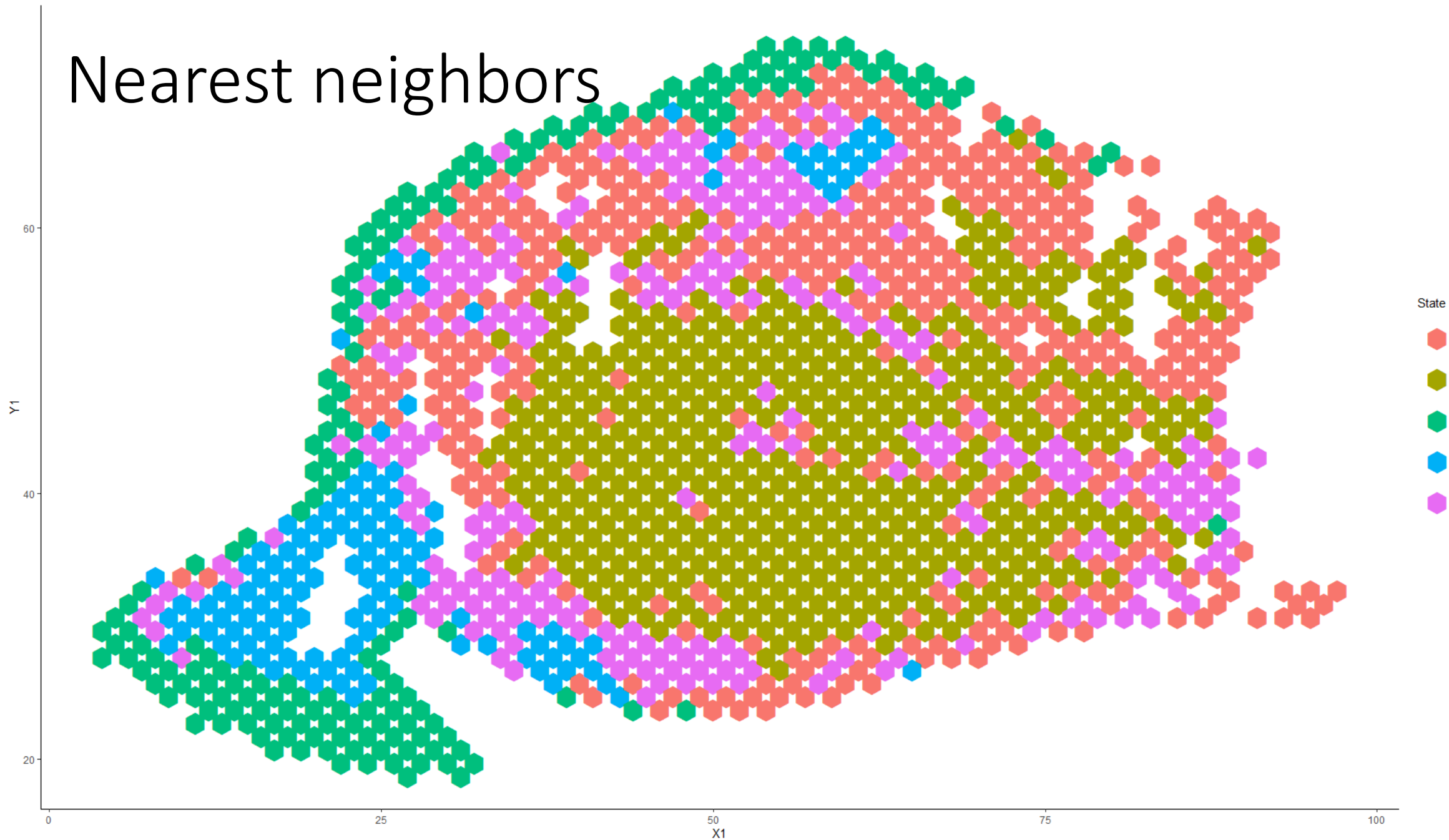
CD3 expression



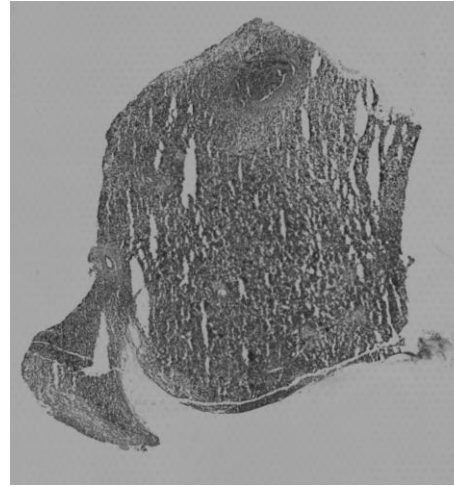
CHGA expression



Nearest neighbors

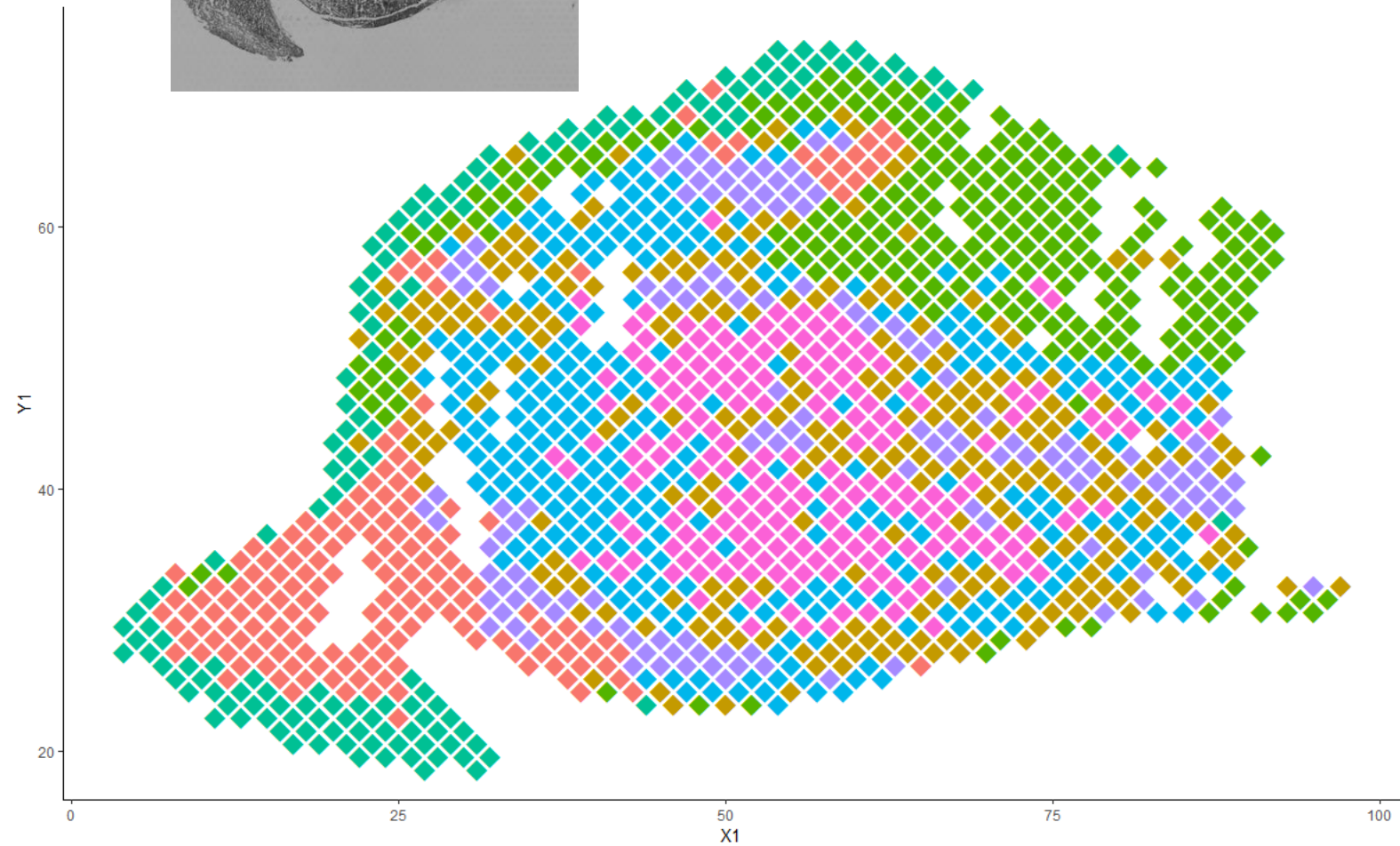
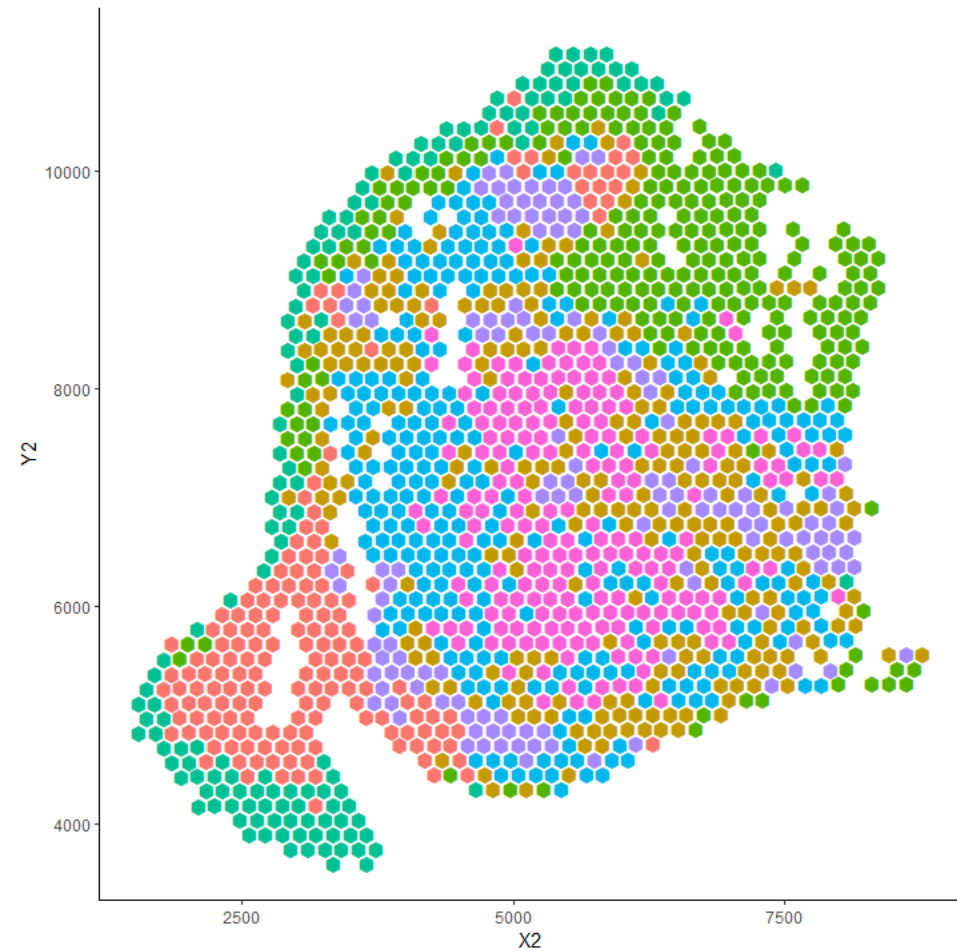


Coordinate scaling



1 X unit = 77.75 pixels

1 Y unit = 134.5 pixels



Deconvolution neighbor structures

