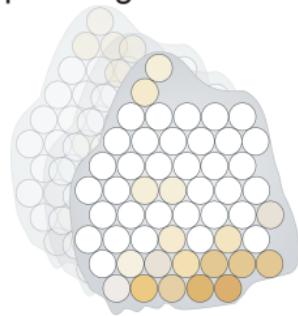
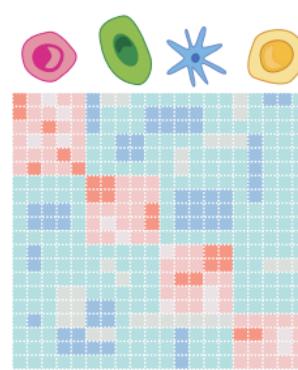


Input: ST and reference scRNA

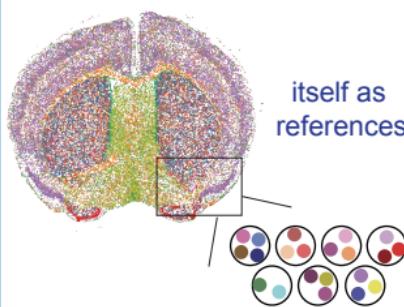
Sequencing-based ST data



Paired scRNA data



Simulated ST data
(from imaging-based Method)



Output: Tool's Predictions

Benchmark tools



METHOD

SpatialDWLS

Expected output



Type A: x%
Type B: y%
Type C: z%

	Spot 1	Spot 2Spot i
	0.04	0.54	Proportion of type 1
	0.46	0.01	Proportion of type 2
	0.33	0.21	Proportion of type 3
	0.17	0.24	Proportion of type 4

Performance Evaluation

Accuracy and Correlation



RMSE
JSD
PCC
.....

Real data
and
Simulation
data

Robustness Test

Only for simulation data, presenting trends

Gene Subsampling

Gene number changes

Spot resolution changes

