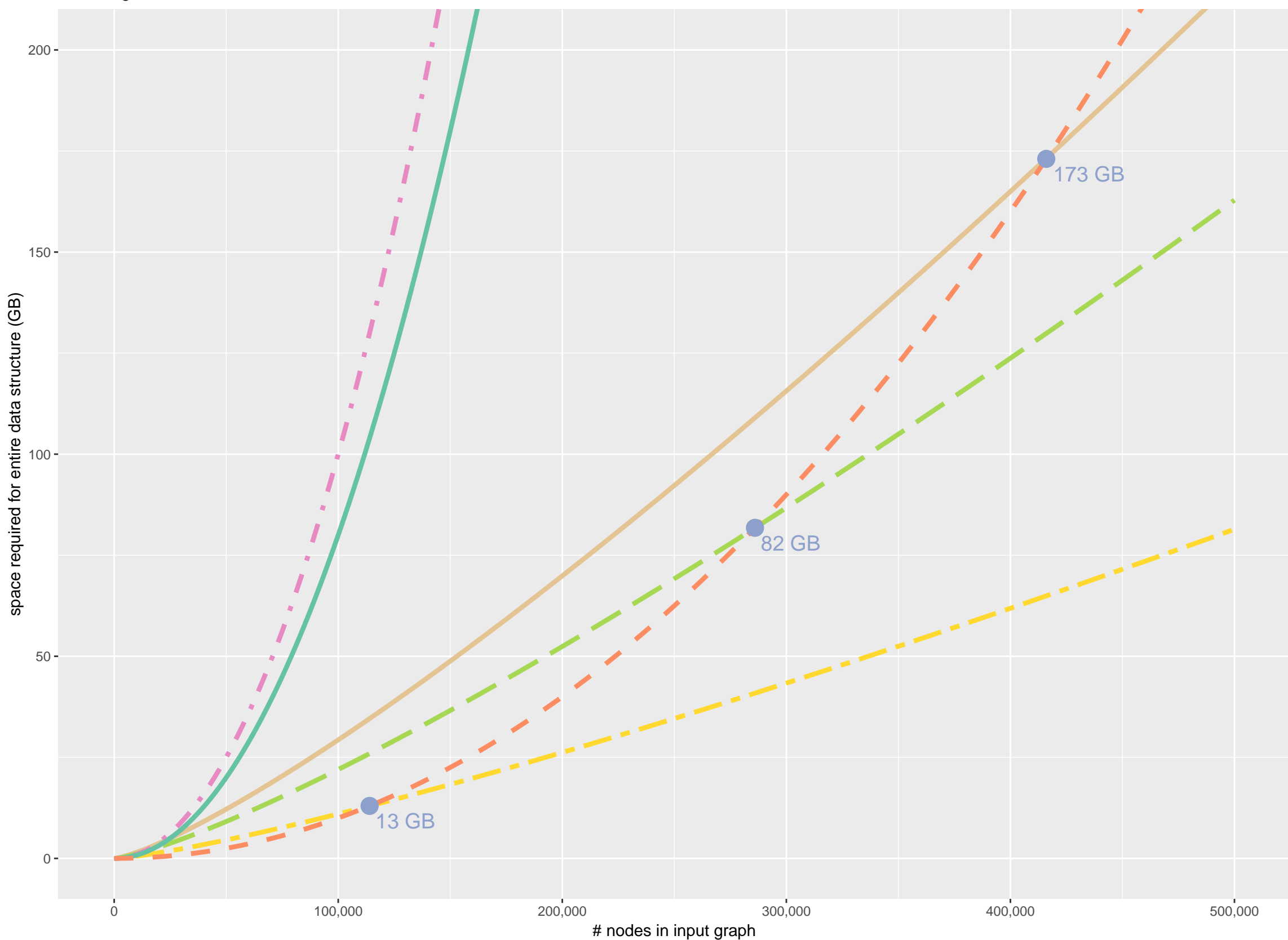


# Connected Components Data Structure Size Comparison

Sketching vs. alternatives



Data Structure

— boost adjacency list. 32B per edge

- - boost adjacency matrix.  $n^2$  bytes

— Break-even points

- - networkx edge list. 40B per edge

— sketch\_slim. 12B per bucket

- - sketch\_slimmer. 6B per bucket

— sketch. 16B per bucket