

Adrie Buendia
Runtime Analysis:

Data	Tiny array	Small array	Medium array	Large Array	Extra Large Array
Insert(unshift)	51.96 μ s	79.929 μ s	222.881 μ s	13.547231 ms	1.801622923 s
Append(push)	134.557 μ s	180.703 μ s	272.549 μ s	1.194887 ms	5.130604 ms

Well at first I see a pattern that as the array increases in size the insert function takes longer to run, and the append function takes longer as the size increased but at a lower rate.

If you were checking runtimes, for a tiny, small or medium array I would go with the Unshift function, for large and extra large arrays I would go with the Push function. So Unshift gets slower as the array grows and while the performance of Push doesn't change much as the array grows.

Extra credit:

Unshift is slower than push because it also needs to unshift all the elements to the left once the first element is added