**DATA STRUCTURES & ALGORITHMS**

1. **Big O Notation:**

* <https://cs.slides.com/colt_steele/big-o-notation>

1. **Analyzing Performance of Arrays and Objects:**

* <https://cs.slides.com/colt_steele/built-in-data-structures-25>

1. **Problem Solving Patterns:**

* <https://cs.slides.com/colt_steele/problem-solving-patterns>

1. **Recursion:**

* <https://cs.slides.com/colt_steele/searching-algorithms-22>

1. **Searching Algorithms:**

* <https://cs.slides.com/colt_steele/tries-21>

1. **Bubble Sort:**

* <https://cs.slides.com/colt_steele/elementary-sorting-algorithms>
* [Sorting Algorithm Animations Website](https://www.toptal.com/developers/sorting-algorithms)
* [Built-in JS sort Documentations](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/sort)
* [Visualgo Sorting (Click Bubble Sort)](https://visualgo.net/en/sorting)

1. **Selection Sort:**

* <https://cs.slides.com/colt_steele/elementary-sorting-algorithms>
* [Visualgo Sorting (Click Selection Sort)](https://visualgo.net/en/sorting?slide=1)

1. **Insertion Sort:**

* <https://cs.slides.com/colt_steele/elementary-sorting-algorithms>
* [Visualgo Sorting (Click Insertion Sort)](https://visualgo.net/en/sorting?slide=1)

1. **Merger Sort:**

* <https://cs.slides.com/colt_steele/intermediate-sorting-algorithms>
* [Visualgo Sorting (Click Merge Sort)](https://visualgo.net/en/sorting?slide=1)
* [Big O Cheat Sheet](https://www.bigocheatsheet.com)

1. **Quick Sort:**

* <https://cs.slides.com/colt_steele/intermediate-sorting-algorithms>
* [Visualgo Sorting (Click Quick Sort)](https://visualgo.net/en/sorting?slide=1)

1. **Radix Sort:**

* <https://cs.slides.com/colt_steele/intermediate-sorting-algorithms>
* [Visualgo Sorting (Click Radix Sort)](https://visualgo.net/en/sorting?slide=1)

1. **Data Structures Introduction:**

* <https://cs.slides.com/colt_steele/es2015-class-syntax>
* [MDN JS Class Guide](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Classes)

1. **Singly Linked List:**

* <https://cs.slides.com/colt_steele/singly-linked-lists>
* [Visualgo – Linked List](https://visualgo.net/en/list)

1. **Doubly Linked List:**

* <https://cs.slides.com/colt_steele/doubly-linked-lists>
* [Visualgo (Click DLL in nav)](https://visualgo.net/en/list)

1. **Stacks + Queues:**

* [Stacks Slides](https://cs.slides.com/colt_steele/stacks)
* [Queues Slides](https://cs.slides.com/colt_steele/queues)

1. **Binary Search Trees:**

* <https://cs.slides.com/colt_steele/trees>
* [Visualgo : Trees](https://visualgo.net/en/bst)

1. **Binary Heaps:**

* <https://cs.slides.com/colt_steele/heaps>
* [Visualgo Binary Heap](https://visualgo.net/en/heap)

1. **Hash Tables:**

* <https://cs.slides.com/colt_steele/hash-tables>

1. **Graphs:**

* <https://cs.slides.com/colt_steele/graphs>

1. **Graph Traversal:**

* <https://cs.slides.com/colt_steele/graphs#/44>

1. **Dijkstra’s Algorithm:**

* <https://cs.slides.com/colt_steele/graphs#/70>

1. **Dynamic Programming:**

* <https://cs.slides.com/colt_steele/dynamic-programming>