

Git and GitHub

1. [About Git - GitHub Docs](#)
2. [Git Book](#)
3. [Fork a Repo - GitHub Docs](#)
4. [The Linux Command Line | Ubuntu](#)

C Basics

1. [Functions in C](#)
2. [Structures in C](#)
3. [Pointers in C](#)
4. [Void Pointers](#)
5. [Function Pointers in C and C++](#) [Function Pointers](#)

GDB and Valgrind

1. [GDB/Valgrind Tutorial 1](#)
2. [GDB/Valgrind Tutorial 2](#)

Linked Lists & Complexity Analysis

1. [Linked List \(Single, Doubly\)](#)
2. [Big-O Notation Explained with Examples](#)
3. [Big-O Algorithm Complexity Cheat Sheet](#)

Binary Search Trees & Binary Heaps

1. [Binary Search Trees, AVL Trees](#)
2. [Tree Traversals](#)
3. [VisuAlgo - Binary Heap \(Priority Queue\)](#)

Hash Tables & Graphs

1. [Associative Array](#)
2. [Hash Table - Wikipedia](#)
3. [Hash Table \(Open Addressing: Linear Probing, Quadratic Probing, Double Hashing and Closed Addressing: Separate Chaining\)](#)
4. [Graph \(abstract data type\) - Wikipedia](#)
5. [Graph Data Structures \(Adjacency Matrix, Adjacency List, Edge List\)](#)
6. [Depth-first search - Wikipedia](#)
7. [Breadth-first search - Wikipedia](#)
8. [Dijkstra's algorithm - Wikipedia](#)
9. [Single-Source Shortest Paths \(Bellman Ford's, Dijkstra's/+ve Weighted, BFS/Unweighted, DFS/Tree, Dynamic Programming/DAG\)](#)