

# Data Structures and Algorithms

---

## Agenda

- Binary Search Tree
- Tree Types

## Binary Tree

- Search
  - Depth First Search (DFS)
  - Breadth First Search (BFS)
- DFS and BFS are search/traversal algorithms for the Graph.
  - Tree is a graph without cycle.

## Binary Search Tree

- Search
  - Binary search:  $O(h)$  -- Binary Search Tree
  - Balanced BST:  $O(\log n)$