

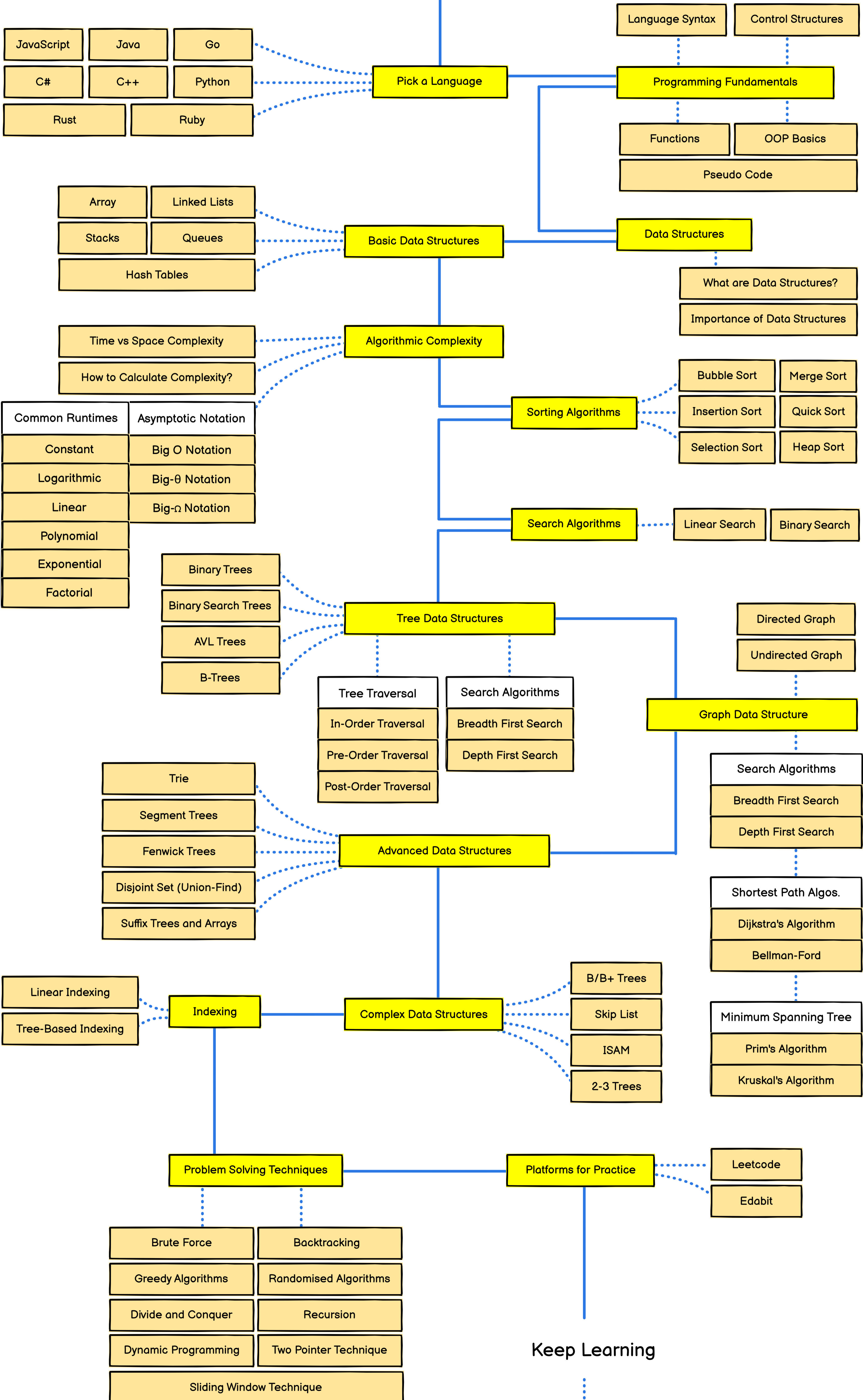
Related Roadmaps

- ✔ Computer Science Roadmap
- ✔ Programming Language Roadmaps

Data Structures & Algorithms

Find the detailed version of this roadmap
Along with resources and more roadmaps

<https://roadmap.sh>



- JavaScript
- Java
- Go
- C#
- C++
- Python
- Rust
- Ruby

- Language Syntax
- Control Structures
- Functions
- OOP Basics
- Pseudo Code

- Array
- Linked Lists
- Stacks
- Queues
- Hash Tables

- Time vs Space Complexity
- How to Calculate Complexity?

Common Runtimes	Asymptotic Notation
Constant	Big O Notation
Logarithmic	Big- θ Notation
Linear	Big- Ω Notation
Polynomial	
Exponential	
Factorial	

- Binary Trees
- Binary Search Trees
- AVL Trees
- B-Trees

- Tree Traversal
 - In-Order Traversal
 - Pre-Order Traversal
 - Post-Order Traversal
- Search Algorithms
 - Breadth First Search
 - Depth First Search

- Directed Graph
- Undirected Graph

- Trie
- Segment Trees
- Fenwick Trees
- Disjoint Set (Union-Find)
- Suffix Trees and Arrays

- Search Algorithms
 - Breadth First Search
 - Depth First Search

- Shortest Path Algos.
 - Dijkstra's Algorithm
 - Bellman-Ford

- Linear Indexing
- Tree-Based Indexing

- B/B+ Trees
- Skip List
- ISAM
- 2-3 Trees

- Minimum Spanning Tree
 - Prim's Algorithm
 - Kruskal's Algorithm

- Brute Force
- Backtracking
- Greedy Algorithms
- Randomised Algorithms
- Divide and Conquer
- Recursion
- Dynamic Programming
- Two Pointer Technique
- Sliding Window Technique

- Leetcode
- Edabit

Keep Learning