

## Tree Application in Real-Life

- File Management (File Structure)
- Compression Algorithms (Huffmann Algorithm)
- Databases
- Compilers (Syntax Tree)
- Priority Queue
- AI (Decision Tree, Random Tree)
- Indexing multi-dimensional information such as geographical coordinates, rectangles or polygons

## Types of Tree

Bihary Tree

Binary Search Tree AVL Tree

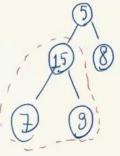
B-Tree

R-Tree

Interval Tree

D-ary Heap

Heap Tree



5-15-8-7-9 from top left to right 7+9+15+8+5 from bottom left to right

Tree Traversal Inorder Traversal Preorder Traversal Postorder Traversal

left subtree- node- right subtree node-left subtree- right subtree leftsubtree-rightsubtree-node

Inorder Traversal 7-15-9-5-8 Preorder Traversal 5+15+7+9+8 Postorder Traversal 7+9+15+8-> 5

