10 Key Data Structures We Use Every Day

10 Data Structures Used in Daily Life · ByteByteGo.com

Data Structure	Illustration	Use Cases
List		Twitter feeds
Array	0 1 2 3	Math operations Large data sets
Stack		Undo/Redo of word editor
Queue		Printer jobs User actions in game
Heap		Task scheduling
Tree		HTML document AI decision
Suffix Tree		Search string in document
Graph		Friendship tracking Path finding
R-tree		Nearest neighbour
Hash Table		Caching systems

- list: keep your Twitter feeds
- stack: support undo/redo of the word editor
- queue: keep printer jobs, or send user actions in-game
- hash table: cashing systems
- Array: math operations
- heap: task scheduling
- tree: keep the HTML document, or for AI decision
- suffix tree: for searching string in a document
- graph: for tracking friendship, or path finding

- r-tree: for finding the nearest neighbor
- vertex buffer: for sending data to GPU for rendering

Over to you: Which additional data structures have we overlooked?