

# Introduction to Data Structures



Data structures are ways to organize and structure your data

# Importance of Data Structures

Optimize performance, solve sorting/searching problems, and power databases, AI, networking; visualized with icons linked to "Data Structure."

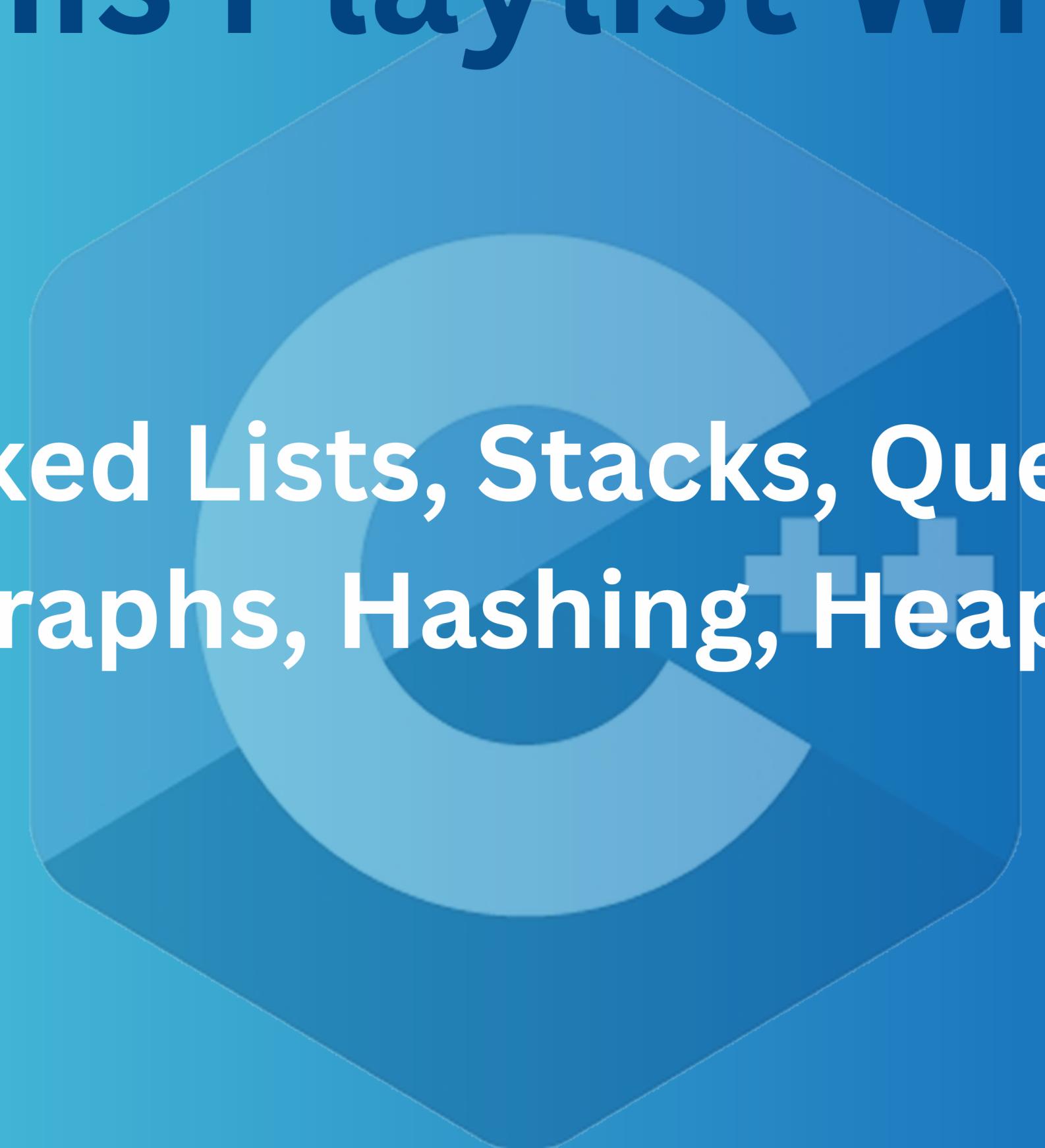
# Examples of Data Structures

Arrays, Linked Lists (singly, doubly, circular),  
Trees, Hash Tables, and Graphs.

# Types of Data Structures

- Linear (Arrays, Stacks)
- Non-linear (Trees, Graphs): Static (fixed size)
- + Dynamic (adjustable).

# What This Playlist Will Cover



Arrays, Linked Lists, Stacks, Queues, Trees,  
Graphs, Hashing, Heaps