

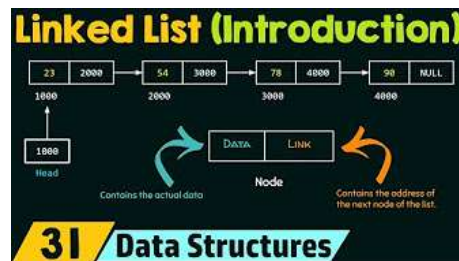
LINKED LIST

A **linked list** is a linear data structure where elements (called **nodes**) are connected using pointers. Each node contains two parts: the **data** and a **pointer** to the next node in the sequence. Unlike arrays, linked lists do not store elements in contiguous memory locations, making them efficient for insertion and deletion operations.

There are different types of linked lists:

- **Singly Linked List** – nodes link in one direction.
- **Doubly Linked List** – nodes link forward and backward.
- **Circular Linked List** – the last node links back to the first node.

YouTube Resources:



Singly Linked List (Neso Academy)

<https://youtube.com/playlist?list=PLBlnK6fEyqRi3-lvwLGzcaquOs5OBTCww&si=BOxOf3hFHITuOjSi>



Doubly Linked List (Neso Academy)

https://youtube.com/playlist?list=PLBlnK6fEyqRg7pacSDMgPn7vDVhz3N1uf&si=qc_kjTDpJvnQshzr



Circular Linked List (Neso Academy)

https://youtube.com/playlist?list=PLBlnK6fEyqRjW4jK-CbshJuX2onc_3IaN&si=lsCR6S7KutoH15R8