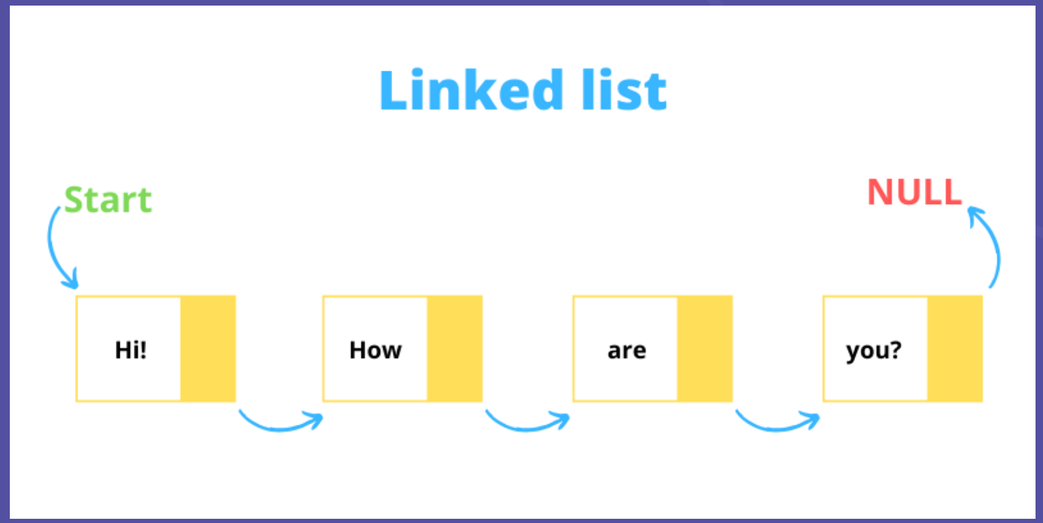
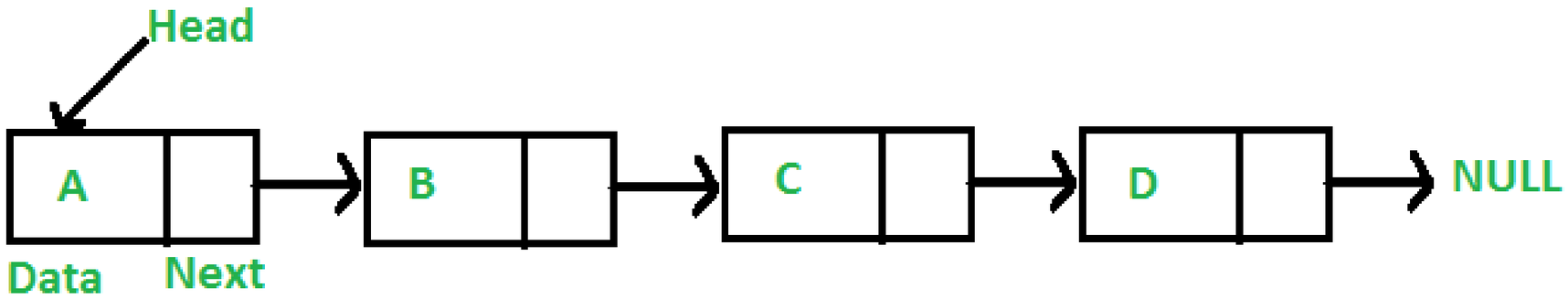
LINKED LIST DATA STRUCTURE

Vaishnavi Waghmale

Definition

A linked list is a linear data structure, in which the elements are not stored at contiguous memory locations.





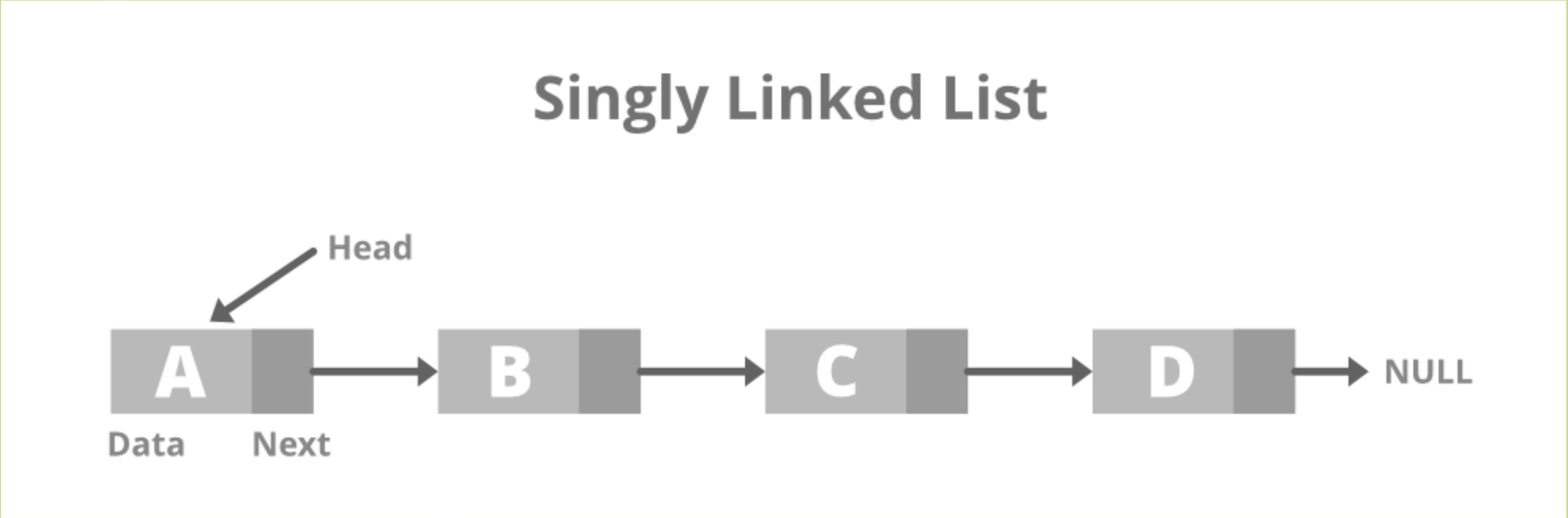
- Head - First node in Linked List.
- Tail - Last node in the Linked List.ie the node which points to NULL.

Types of Linked List

- Singly Linked List
- Doubly Linked List
- Circular Linked List
- Circular Doubly Linked List

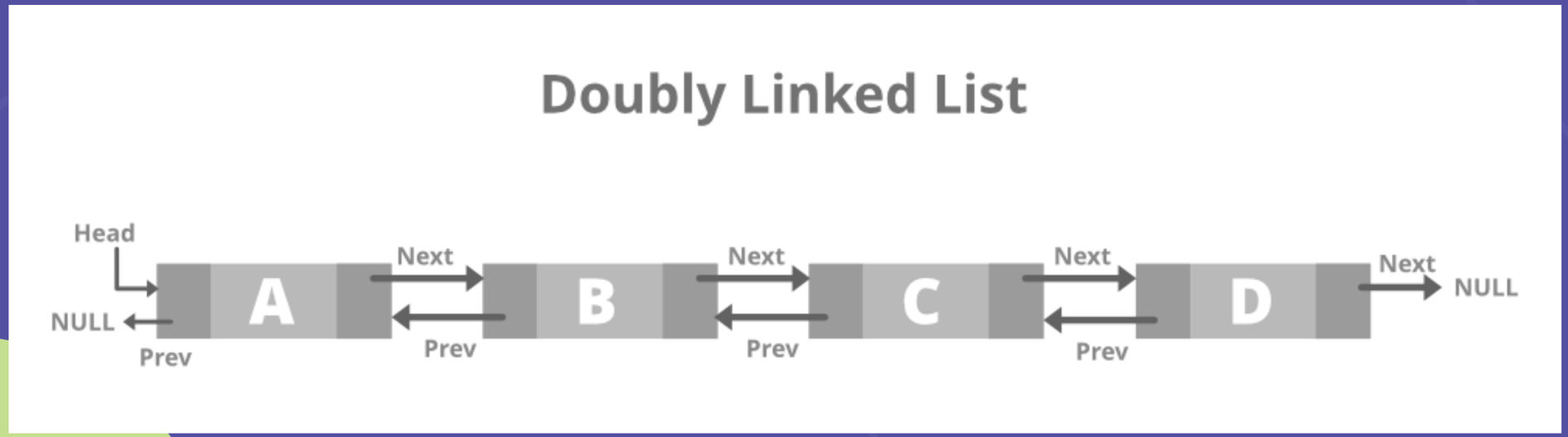
Singly Linked List

Singly linked list is a **unidirectiona**l linked list. The singly-linked list **holds data and a link to the next component.**



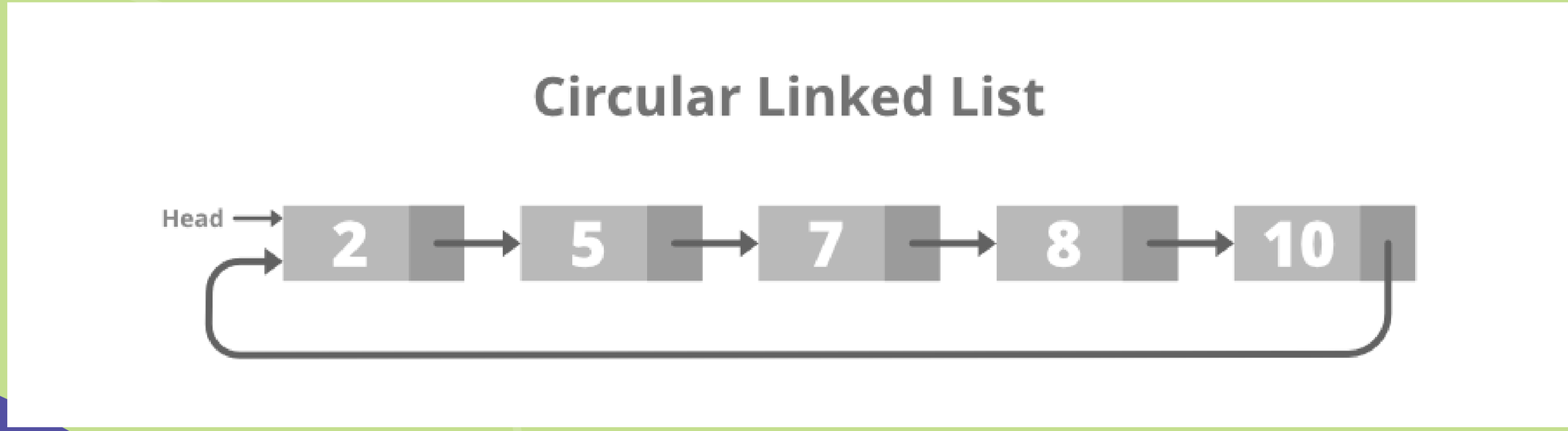
Doubly Linked List

Doubly linked list is a **bidirectional** linked list. In doubly linked list each node contains a pointer to the previous as well as the next node in the sequence.



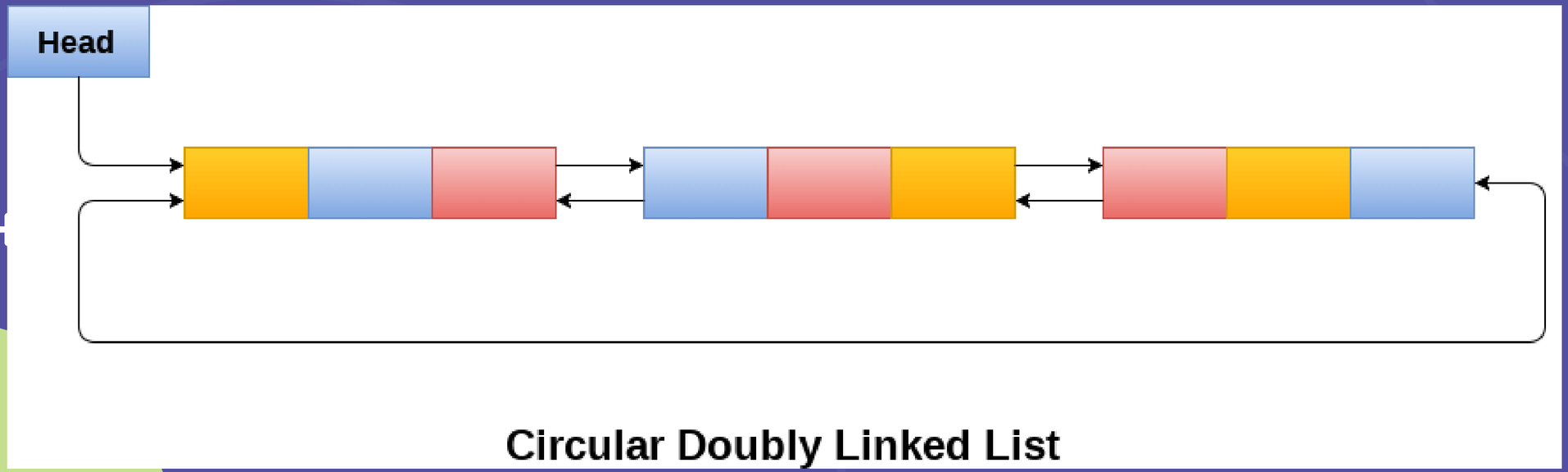
Circular Linked List

In a circular linked list, the last node of the list contains a pointer to the first node of the list.



Doubly Circular Linked List

Circular doubly linked list is a more complexed type of data structure in which a node contain pointers to its previous node as well as the next node.



Circular Doubly Linked List

Thank You!

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