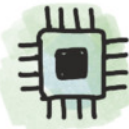


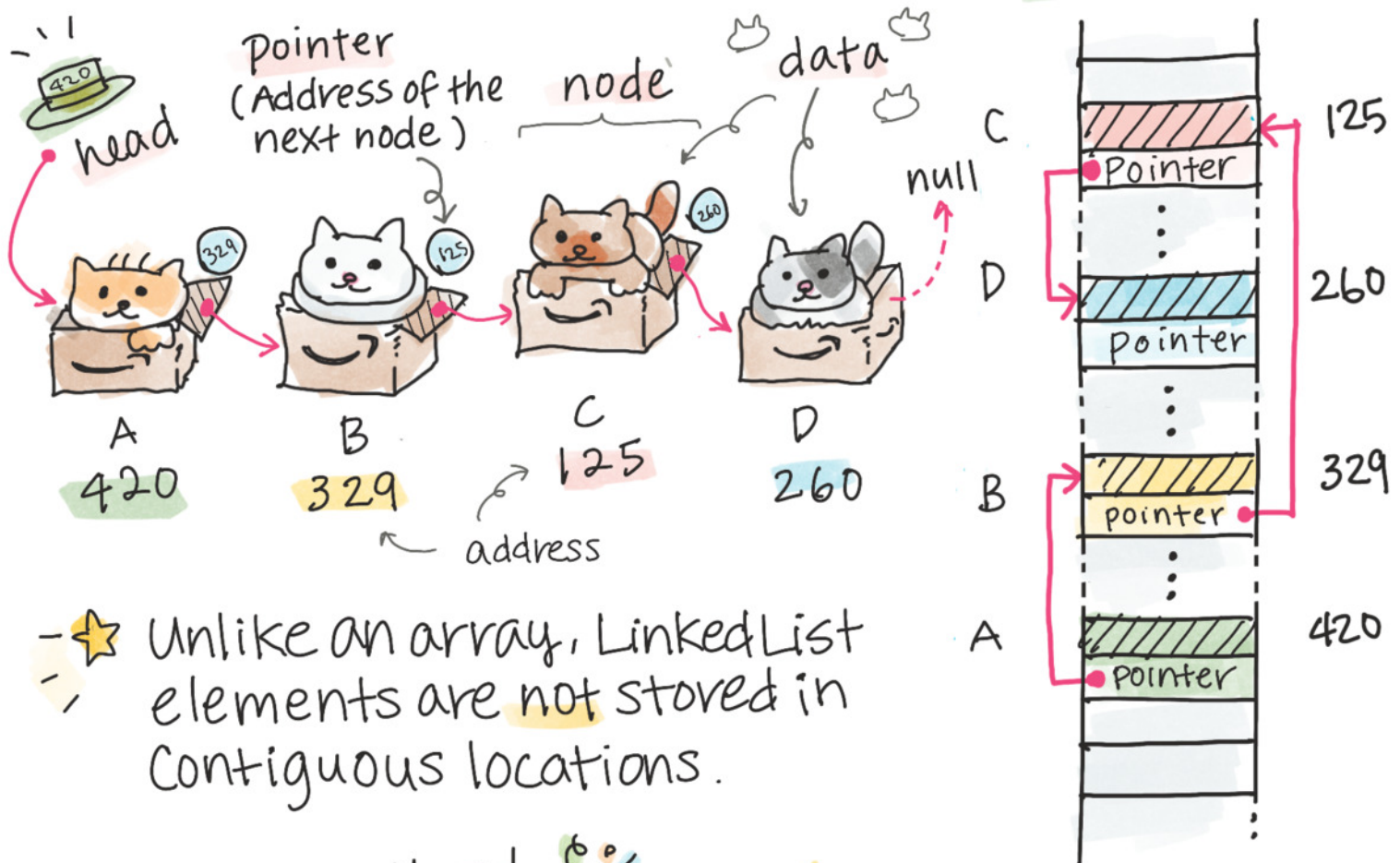
Linked list

Array & Linked List

- ★ a linear data structure
- ★ each element is a separated object & elements are linked w/ pointers



memory



- ★ Unlike an array, LinkedList elements are not stored in Contiguous locations.

Yay! 🎉

- ♥ Dynamic data
= size can grow or shrink
- ♥ Insert & delete element are flexible.
→ no need to shift nodes like array insertion
- ♥ memory is allocated at runtime

👎 meh!

- ☹ No random access memory.
→ Need to traverse n times
→ time complexity is $O(n)$. array is $O(1)$
- ☹ Reverse traverse is hard