WHY ARE THEY IMPORTANT

DATA STRUCTURES

@codechips

Art Credit :
@the.rendercode

@codechips

Cody

popupdev04@gmail.com

This is the 1st of the series of Posts on **DataStructures** and **Algorithms**

Starting from basics to complex stuff

Leave a like, as an approval to continue this series

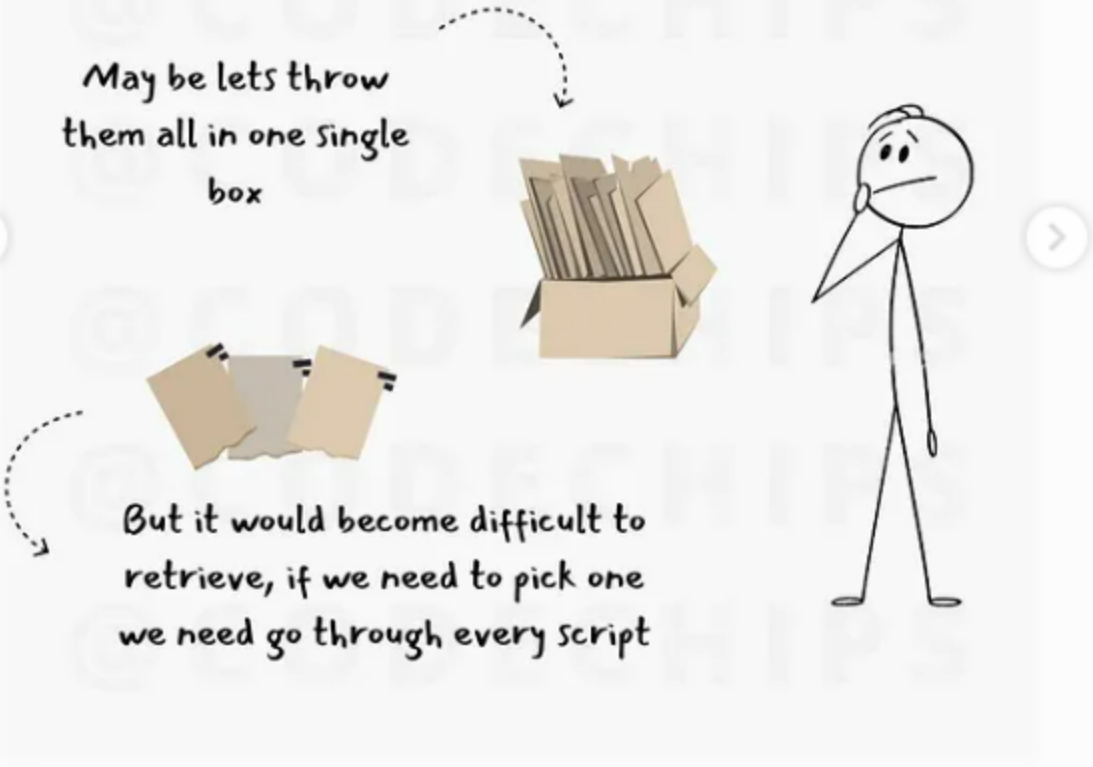
@codechips Cody popupdev04@gmail.com

Lets say you have 3 story scripts

and you need to store it safely

You have number of possible ways to store it

But it should be **efficient** to access and **manage** the scripts later when needed

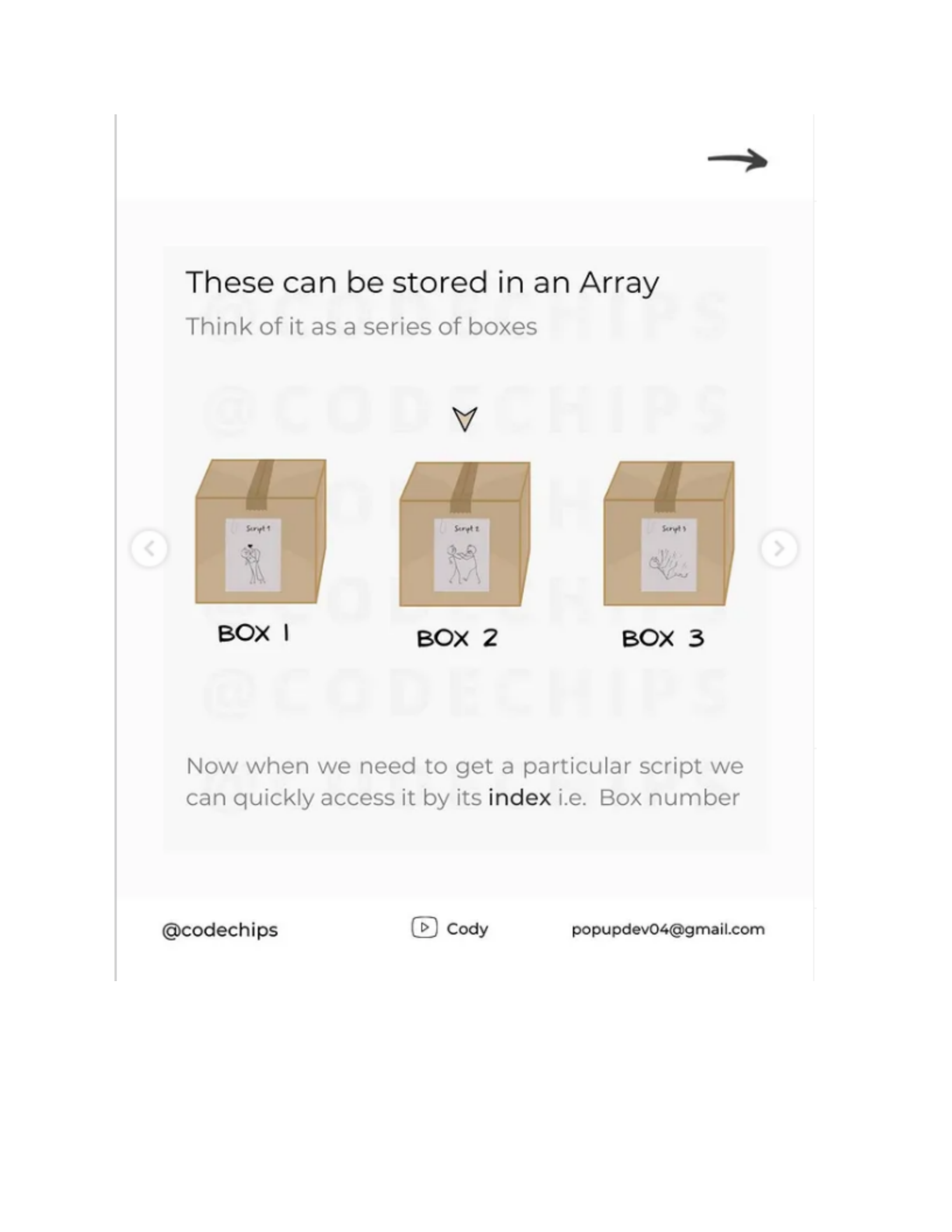


@codechips Cody popupdev04@gmail.com

That is where th power of **data structures** helps

What is a Data Structure ?

DS is a way to store and organize data so that it can be used efficiently


These can be stored in an Array
Think of it as a series of boxes
BOX 1
BOX 2
BOX 3
Now when we need to get a particular script we can quickly access it by its index i.e. Box number
@codechips
Cody
popupdev04@gmail.com

What if all 3 scripts are interlinked stories and you need to have connectivity between them

Now **Linked list** can be used to store them

@codechips Cody popupdev04@gmail.com

Knowing what data structure to use is necessary to

to allow for reasonable processor speeds

make and support data searchable, sortable & mergeable

to handle high levels of requests

@codechips Cody popupdev04@gmail.com

Understanding the complexity, the algorithm efficiency, best tool for the job separates the average from the above average programmer

When you have the scale of FB or Google, every second counts.
That is why huge companies focus on DS & Algorithms in interviews

@codechips

Cody

popupdev04@gmail.com