Javascript - Arrays introduction

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We will start with the following concepts

1) JS arrays

2) Storing information in Arrays

3) Examples of real life arrays

4) Getting information out of Array

5) Array of objects

Information in general is stored in groups

★ Group of fruits, group of vegetables, group of animals etc.

★ Names of a student of a class, employees of a company etc.

★ Names of attendees of a concert, identification number of a seminar attendees etc.

★ Dates of all holidays of a calendar year.

Arrays in programming are a collection of similar things

1) Whenever you want to create a collection of String, Numbers or any other data type, you have to use arrays

2) You can think of arrays as special variable which can hold more than one value at a time.

3) Let's look at a few examples of real life arrays
   a) Array storing countries in the world
   b) Array for storing popular sports across the world

Getting Data out of a Array and storing it in a variable is very easy

- You can refer to an array element using its index number.

- These index numbers are an internal mechanism of keeping track of the elements and the length of the array.

- Let's check out how to do this in program

- Think about the real life implications !

Can it get any more complicated?

```json
[
  {

    "firstName":"Aditya",
    "lastName" : "Kumar",
    "email" :"someemail@somedomain.com",
    "mobileNumber" : 9999999999

  },
  {

    "firstName":"Sid",
    "lastName" : "Sharma",
    "email" :"someotheremail@somedomain.com",
    "mobileNumber" : 9999599999

  }

]
```

Yes, You can create an array of objects as well to store complex data

- Information about users of a website

- Information about products

- Let's look at a few more real life examples -
  https://github.com/toddmotto/public-apis

Accessing data from an array of objects
can be a bit tricky for a beginner

- The easiest way is to know the index and then the key of the object

- In real life programs, since you have declared the array and the objects inside it, you will always know what to call and how to separate things out.

- Now, imagine the possibilities with these array of objects.

- We will be learning how to program these things in coming videos

The next steps are ...

- Javascript operations on data types.