

Array

▼ Tags

Completed

- Arrays are a data structure
- Arrays are useful for processing a group of variables of the same type
- Array is a sequence of variables of the same type stored in contiguous memory
- Each variable is called an element
- Elements are accessed using a subscript called an index (int value)

base



>

▼ Declaring an array

```
datatype [] arrayName; //does not create an array
                      //creates a reference
```

▼ Creating an array

1. keyword ***new***
2. initializer list

```
datatype [] arrayName = new datatype [size];
```

```
arrayName.length() //is a read-only instance variable
```

▼ Enhanced for loop

used to loop through arrays without using an index

1. process the array in order

2. does not change any of the values in the array
3. use when don't need to know the index or change the array

```
public static void main (String []args) {  
    int exampleArray[] = {2, 4, 6, 8, 10}  
  
    for (int i: exampleArray) {  
        System.out.println(i);  
    }  
}
```