

# Arrays with Strings

Java  
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# Review of how to create integer arrays

`int[] arnold;`

indicates array

type stored in array

name of array

The diagram illustrates the syntax of a Java array declaration. The code `int[] arnold;` is shown with three annotations: a red arrow points from the text 'type stored in array' to the `int` type; a blue arrow points from the text 'indicates array' to the `[]` brackets; and a green arrow points from the text 'name of array' to the variable name `arnold`.

# Review of how to create integer arrays

**variablename** = *new* **type** [**#elements**]

reserved word  
(constructs)

**arnold** = *new* **int** [**100**];

Note: This command constructs the array.

Now we can also create String arrays!

Same as an integer :)

```
String[] arnold;
```

## Constructing an array of String

Same as an integer. This creates 100 slots of data to be stored.

```
arnold = new String[100];
```

**Big Warning: Arrays must be constructed with a size before use**

# Array Variable: Setting Element Values

```
arnold[0] = "Potato0";
```

```
arnold[1] = "Potato1";
```

```
arnold[2] = "Potato2";
```

```
arnold[3] = "Potato3";
```

```
...//all the way to 99
```

# Array Variable:

## Accessing each element

How would we output the tenth element of *arnold*?

```
System.out.println(arnold[9]);
```

# Lab

- Make an array of Strings
  - Set size to 10
- Give all 10 values of the following:
  - Lyrics lines of your favorite song
- Print out all