

PHP Arrays Demonstration

Indexed Array

```
Array
(
    [0] => Apple
    [1] => Banana
    [2] => Cherry
    [3] => Mango
)
```

Looping through Indexed Array:

Apple
Banana
Cherry
Mango

Associative Array

```
Array
(
    [name] => John Doe
    [age] => 25
    [city] => New York
)
```

Accessing values:

Name: John Doe
Age: 25
City: New York

Multidimensional Array

```
Array
(
    [0] => Array
        (
            [0] => Alice
            [1] => 22
            [2] => A
        )

    [1] => Array
        (
            [0] => Bob
            [1] => 24
            [2] => B
        )
)
```

Looping through Multidimensional Array:

Name: Alice, Age: 22, Grade: A
Name: Bob, Age: 24, Grade: B
Name: Charlie, Age: 23, Grade: A

Array Functions

Sorting Indexed Array:

```
Array
(
    [0] => Apple
    [1] => Banana
    [2] => Cherry
    [3] => Mango
)
```

Sorting Associative Array by Value:

```
Array
(
    [age] => 25
    [name] => John Doe
    [city] => New York
)
```

Sorting Associative Array by Key:

```
Array
(
    [age] => 25
    [city] => New York
    [name] => John Doe
)
```

Array Merging:

```
Array
(
    [0] => Red
    [1] => Blue
    [2] => Green
    [3] => Yellow
)
```

Array Push (Add elements to Indexed Array):

```
Array
(
    [0] => Apple
)
```

```
[0] => Apple
[1] => Banana
[2] => Cherry
[3] => Mango
[4] => Pineapple
)
```

Array Search:
Banana found at index: 1
Array Reverse:

```
Array
(
    [0] => Pineapple
    [1] => Mango
    [2] => Cherry
    [3] => Banana
    [4] => Apple
)
```

Array Keys:

```
Array
(
    [0] => age
    [1] => city
    [2] => name
)
```

Array Values:

```
Array
(
    [0] => 25
    [1] => New York
    [2] => John Doe
)
```

Check if Key Exists:
Key 'age' exists!
Check if Value Exists:
'John Doe' exists in array!
Removing Duplicate Values:

```
Array
(
    [0] => apple
    [1] => banana
    [3] => cherry
)
```
