

Swift Array Initialization

Welcome to Swift Tutorial. In this tutorial, we will learn how to initialize Arrays in Swift.

Arrays initialization can be done in three ways.

- Create an empty array
- Create an array with Specific Size and Default Values
- Create an array with some Initial Values

Create an Empty Array

To create an empty Array, use the following syntax.

```
var array_name =  
[datatype]()
```

```
var array_name = [datatype]()
```

Examples

Following are the examples to create an empty Integer Array and an empty String Array.

```
// integer array  
var numbers = [Int]()
```

```
// integer array  
var numbers = [Int]()
```

```
// string array  
var name = [String]()
```

Create an Array with Specific Size

To create an Integer Array with specific size and default values, use the following syntax.

```
var array_name = [Int]  
(count: array_size
```

```
var array_name = [Int](count: array_size, repeatedValue: default_value)
```

To create a String Array with specific size and default values, use the following syntax.

```
var array_name =  
[String](repeating:
```

```
var array_name = [String](repeating: default_value, count: array_size)
```

Examples

Following are the examples to create Arrays with a specific size and a default value for each item in the Array.

```
// integer array  
var numbers = [Int]
```

```
// integer array  
var numbers = [Int](count: 3, repeatedValue: 20)  
  
// string array  
var name = [String](repeating:"tutorialkart", count:5)
```

Create an Array with some Initial Values

To create an Array with some , use the following syntax.

```
var array_name:  
[datatype] = [value1
```

```
var array_name:[datatype] = [value1, value2, .., valueN]
```

Examples

Following are the examples to create an empty Integer Array and an empty String Array.

```
// integer array  
var numbers:[Int] =
```

```
// integer array  
var numbers:[Int] = [25, 78, 56]  
  
// string array  
var name:[String] = ["TutorialKart", "Swift Tutorial", "iOS Tutorial"]
```

Conclusion

In this [Swift Tutorial](#), we have learned how to initialize an Array with the help of example Swift Programs.

Swift Tutorial

- ↳ [Swift Tutorial](#)
- ↳ [Swift Keywords](#)
- ↳ [Swift Comments](#)
- ↳ [Swift If](#)
- ↳ [Swift If-Else](#)
- ↳ [Swift For Loop](#)
- ↳ [Swift While Loop](#)
- ↳ [Swift forEach](#)
- ↳ [Swift Repeat While Loop](#)
- ↳ [Swift Break](#)
- ↳ [Swift Continue](#)
- ↳ [Swift Tuple](#)
- ↳ [Swift Enum](#)
- ↳ [Swift Structure](#)

Strings

- ↳ [Swift - Substring](#)
- ↳ [Swift - Concatenate Strings](#)

Arrays

- ↳ [Swift Array Initialization](#)
- ↳ [Swift Print Array](#)
- ↳ [Swift Integer Array](#)
- ↳ [Swift append Integer to Array](#)
- ↳ [Swift String Array](#)
- ↳ [Swift append String to Array](#)
- ↳ [Swift Get Array Size - count](#)
- ↳ [Swift Remove an Element from Array](#)
- ↳ [Swift Append / Concatenate Arrays](#)
- ↳ [Swift Check if an Array is Empty](#)

Dictionaries

- ↳ [Swift Dictionary](#)

‡ Swift - Create Dictionary

‡ Swift - Create Dictionary using Arrays

‡ Swift - Iterate through Dictionary

‡ Swift - Get Dictionary Size

‡ Swift - Check if Dictionary is Empty

‡ Swift - Add or Append Element to Dictionary

‡ Swift - Get value using key in Dictionary

‡ Swift - Check if a key is present in Dictionary

‡ Swift - Merge Two Dictionaries

‡ Swift - Convert Dictionary into Arrays of Keys and Values

‡ Swift - Print all Keys in a Dictionary

Sets

‡ Swift Print Set

‡ Swift Get Set Size

‡ Swift Insert Element to Set

‡ Swift Check if Element is present in Set

File Operations

‡ Swift Read Text File

Swift Errors [Solved]

‡ Swift error: return from initializer without initializing all stored properties

‡ Swift - struct error: missing argument labels in call