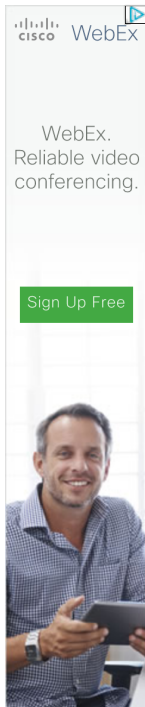


alvin alexander



## A Scala split String example

By Alvin Alexander. Last updated: May 30, 2015

Scala String FAQ: How do I split a `String` in [Scala](#) based on a field separator, such as a string I get from a comma-separated value (CSV) or pipe-delimited file.

### Solution

Use one of the `split` methods that are available on `String` objects:

```
scala> "hello world".split(" ")
res0: Array[java.lang.String] = Array(hello, world)
```

The `split` method returns an array of `String` elements, which you can then treat as a normal Scala `Array`:

```
scala> "hello world".split(" ").foreach(println)
hello
world
```

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### Real-world example

Here's a real-world example that shows how to split a URL-encoded string you might receive in a web application:

```
scala> val result = "oauth_token=F00&oauth_token_secret=BAR&oauth_expires_in=3600"

scala> val nameValuePairs = result.split("&")
nameValuePairs: Array[java.lang.String] = Array(oauth_token=F00, oauth_token_secret=BAR, oauth_expires_in=3600)
```

As you can see in the second line, I call the `split` method, telling it to use the `&` character to split my string into multiple strings. As you can see in the REPL output, the variable `nameValuePairs` is an `Array` of `String` type, and in this case, these are the name/value pairs I wanted.

### Splitting a CSV string

Here's an example that shows how to split a CSV string into a string array:

```
scala> val s = "eggs, milk, butter, Coco Puffs"
s: java.lang.String = eggs, milk, butter, Coco Puffs

// 1st attempt
scala> s.split(",")
res0: Array[java.lang.String] = Array(eggs, " milk", " butter", " Coco Puffs")
```

Note that when using this approach it's best to trim each string. This is shown in the following code, where I use the `map` method to call `trim` on each string before returning the array:

```
// 2nd attempt, cleaned up
```

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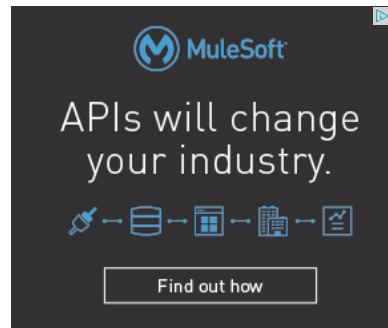
```
scala> s.split(",").map(_.trim)
res1: Array[java.lang.String] = Array(eggs, milk, butter, Coco Puffs)
```

## Splitting with regular expressions

You can also split a string based on a regular expression (regex). This example shows how to split a string on whitespace characters:

```
scala> "hello world, this is Al".split("\\s+")
res0: Array[java.lang.String] = Array(hello, world,, this, is, Al)
```

For more examples of regular expressions, see the [Java Pattern class](#), or see my [common Java regular expression examples](#).



## Where the split method comes from

The `split` method is overloaded, with some versions of the method coming from the Java `String` class and some coming from the Scala `StringLike` class. For instance, if you call `split` with a `Char` argument instead of a `String` argument, you're using the `split` method from `StringLike`:

```
// split with a String argument
scala> "hello world".split(" ")
res0: Array[java.lang.String] = Array(hello, world)

// split with a Char argument
scala> "hello world".split(' ')
res1: Array[String] = Array(hello, world)
```

The subtle difference in that output -- `Array[java.lang.String]` versus `Array[String]` -- is a hint that something is different, but as a practical matter, this isn't important. Also, with the Scala IDE project integrated into Eclipse, you can see where each method comes from when the Eclipse "code assist" dialog is displayed. (IntelliJ IDEA and NetBeans may show similar information.)

Note: The actual Scala class that contains the `split` method may change over time. At the time of this writing the `split` method is in the `StringLike` class, but as the Scala libraries are reorganized this may change.

convert string to int  
compare strings with ==  
a 'chomp' method  
find regex in string

#### functions and functional programming

named and default parameters  
pass one function to another  
pass a function to a function (higher)

#### files

open and read files  
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read command line arguments  
execute fixed system commands  
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akka ask, future, await, timeout  
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#### idioms

using option, some, and none  
methods should have no side effects  
prefer immutable state

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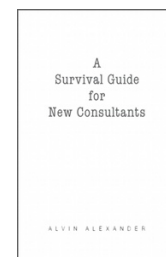


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