
Subject: Looking for examples to split string into container

Posted by [sinpeople](#) on Wed, 28 Oct 2020 16:15:39 GMT

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Hi Folks,

I am looking for a sample code to split a string according to a set of predefined delimitator, which is very similar to the following C# code.

```
char[] delimiterChars = { ' ', ',', ':', '\t' };
```

```
string text = "one\ttwo three:four,five six seven";  
System.Console.WriteLine($"Original text: '{text}'");
```

```
string[] words = text.Split(delimiterChars);  
System.Console.WriteLine($"{words.Length} words in text:");
```

```
foreach (var word in words)  
{  
    System.Console.WriteLine($"<{word}>");  
}
```

Thank you so much!

Best Regards

David WANG

Subject: Re: Looking for examples to split string into container

Posted by [Klugier](#) on Wed, 28 Oct 2020 17:41:43 GMT

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Hello David,

Use global Split function. For more info check following example and read this documentation site.

I think this should be straight forward:

```
auto numbers = Split("one,two,,three", ','); // <- Type is Vector<String>, Upp::Split if not in  
namespace  
for (const auto& number : numbers) {  
    // number is string...  
}
```

Klugier

Subject: Re: Looking for examples to split string into container
Posted by [Oblivion](#) on Wed, 28 Oct 2020 18:07:07 GMT
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HELlo David,

Klugier already pointed to the right function and interface (Upp::Split).
Upp::Split has a plenty of variants, just check the API docs.

Here is conversion of C# -> to U++ code:

```
#include <Core/Core.h>

using namespace Upp;

CONSOLE_APP_MAIN
{
    String text = "one\ttwo three:four,five six seven";
    Cout() << text << "\n";
    Vector<String> words = Split(text, [](int c) { return c == ':' || c == '\t' || c == ' ' || c == ',' || c == '.' ? 1 : 0; });
    for(const auto& s : words)
        Cout() << s << "\n";
}
```

Best regards,
Oblivion

Subject: Re: Looking for examples to split string into container
Posted by [mirek](#) on Thu, 29 Oct 2020 00:06:30 GMT
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Oblivion wrote on Wed, 28 October 2020 19:07HELlo David,

Klugier already pointed to the right function and interface (Upp::Split).
Upp::Split has a plenty of variants, just check the API docs.

Here is conversion of C# -> to U++ code:

```
#include <Core/Core.h>
```

```
using namespace Upp;
```

```
CONSOLE_APP_MAIN
```

```
{  
    String text = "one\ttwo three:four,five six seven";  
    Cout() << text << "\n";  
    Vector<String> words = Split(text, [](int c) { return c == ':' || c == '\t' || c == ',' || c == ';' || c == '!' ? 1  
: 0; });  
    for(const auto& s : words)  
        Cout() << s << "\n";  
}
```

Best regards,
Oblivion

Variation just to demonstrate findarg:

```
Vector<String> words = Split(text, [](int c) { return findarg(c, ':', '\t', ',', ';', '!') >= 0; });
```
