

Splitting String

Removing values from csv strings

Topics

- Splitting Strings
- Multiple Delimiters
- Removing Empties

Splitting Strings

Retrieving data from a string

Comma-Separated Values

- Sometimes, data is stored **inside** of strings.
- The data in the string is separated by a character (or multiple characters) called **delimiters**.
- **Delimiters** make it is easy to **separate the data** from each other.

EXAMPLES: “The quick brown fox jumps over the lazy dog”
The delimiter that separates the data is the space (‘ ‘).

Delimiters

EXAMPLES:

“The quick brown fox jumps over the lazy dog”

The delimiter that separates the data is the space (‘ ’).

“Thor|Captain America|Iron Man”

The delimiter that separates the data is the vertical bar (‘|’).

“Thor,Captain America,Iron Man”

The delimiter that separates the data is the comma (‘,’).

How do we get the data out of the string?

- Use the **Split** method of the string to get the values in a **string array**.
- When splitting, you specify a **delimiter** (or separator) so the Split method knows how to separate the data.

In this example, '-' is the delimiter.

```
string data = "A-B-C-D-E-F-G";  
string[] letters = data.Split('-');
```

#1 Split Challenge with 1 Delimiter

- Create a string variable and give it this value:
“Joker,Riddler,Catwoman,Twoface,Bane”
- Split the string to get the string array
- Print the string array

Example:

```
string data = "A-B-C-D-E-F-G";  
string[] letters = data.Split('-');
```

LINKS

[Split](#)

SLIDES

[Split How-To](#)

Multiple Delimiters

Multiple Delimiters

- Some strings have data that is separated using more than 1 delimiter.
- Pass a **char array** to the split method to specify more than 1 delimiter. In this example, '-' and ',' are the delimiters.

```
string code = "A-B-C,1,2,3,D-E-F,4,5,6";  
string[] codes = code.Split(new char[] { '-', ',' });
```

Removing Empties

- Sometimes 2 delimiters are right next to each other in the string. The Split method will generate an empty entry in the array.
- To remove the empty entries, pass an **StringSplitOptions.RemoveEmptyEntries** to the method.

```
string code = "A-B-C,,,D-E-F,4,5,6";  
string[] codes = code.Split(new char[] { '-', ',' }, StringSplitOptions.RemoveEmptyEntries);
```

#2 Split with multiple delimiters

LINKS

[Split](#)

- Create a string variable and give it this value:
“Joker,,Riddler,Catwoman,,Twoface,Bane|Gordon||Barbara”
- Split the string to get the string array of names. Make sure you **remove the empty entries**.
- Print the string array.

SLIDES

[Multiple Delims
How-To](#)

Example:

```
string code = "A-B-C,,,D-E-F,4,5,6";  
string[] codes = code.Split(new char[] { '-', ',' }, StringSplitOptions.RemoveEmptyEntries);
```