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C# String Functions and Manipulation

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[C#](#) and [VB.NET](#) have a whole set of string functions to trim, find, search, replace and split strings. It's also simple to convert to upper case or title case

Trim Function

The trim function has three variations `Trim`, `TrimStart` and `TrimEnd`. The first example show how to use the `Trim()`. It strips all white spaces from both the start and end of the string.

```
//STRIPS WHITE SPACES FROM BOTH START + FINISH
string Name = " String Manipulation " ;
string NewName = Name.Trim();
//ADD BRACKET SO YOU CAN SEE TRIM HAS WORKED
MessageBox.Show "[" + NewName + "]" );
```

TrimEnd

`TrimEnd` works in much the same way but you are stripping characters which you specify from the end of the string, the below example first strips the space then the `n` so the output is String Manipulatio.

```
//STRIPS CHRS FROM THE END OF THE STRING
string Name = " String Manipulation " ;
//SET OUT CHRS TO STRIP FROM END
char[] MyChar = { ' ', 'n' };
string NewName = Name.TrimEnd(MyChar);
//ADD BRACKET SO YOU CAN SEE TRIM HAS WORKED
MessageBox.Show "[" + NewName + "]" );
```

TrimStart

`TrimStart` is the same as `TrimEnd` apart from it does it to the start of the string.

```
//STRIPS CHRS FROM THE START OF THE STRING
string Name = " String Manipulation " ;
//SET OUT CHRS TO STRIP FROM END
char[] MyChar = { ' ', 'S' };
string NewName = Name.TrimStart(MyChar);
//ADD BRACKET SO YOU CAN SEE TRIM HAS WORKED
MessageBox.Show "[" + NewName + "]" );
```

Find String within string

This code shows how to search within a string for a sub string and either returns an index position of the start or a -1 which indicates the string has not been found.

```
string MainString = "String Manipulation";
string SearchString = "pul";
int FirstChr = MainString.IndexOf(SearchString);
//SHOWS START POSITION OF STRING
MessageBox.Show("Found at : " + FirstChr );
```

Replace string in string

Below is an example of replace a string within a string. It replaces the word Manipulatin with the correct spelling of Manipulation.

```
string MainString = "String Manipulatin";
string CorrectString = MainString.Replace("Manipulatin", "Manipulation");
//SHOW CORRECT STRING
MessageBox.Show("Correct string is : " + CorrectString);
```

Strip specified number of characters from string

This example show how you can strip a number of characters from a specified starting point within the string. The first number is the starting point in the string and the second is the amount of chrs to strip.

```
string MainString = "s1111tring Manipulation";
string NewString = MainString.Remove(1,4);

//SHOW OUTPUT
MessageBox.Show(NewString);
```

Split string with delimiter

The example below shows how to split the string into separte parts via a specified dilemeter. The results get put into the Split array and called back via `Split[0]`.

```
string MainString = "String Manipulation";
string [] Split = MainString.Split(new Char [] { ' ' });
//SHOW RESULT
MessageBox.Show(Convert.ToString(Split[0]));
MessageBox.Show(Convert.ToString(Split[1]));
```

Convert to title (proper) case

This is a simple extension method to convert a string to Proper Case or Title Case (ie the first character of each word is made upper case).

```
public static string ToTitleCase(this string title)
{
    CultureInfo cultureInfo = Thread.CurrentThread.CurrentCulture;
    TextInfo textInfo = cultureInfo.TextInfo;
    return textInfo.ToTitleCase(title);
}
```

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