



IOT Virtual Conference - Register now to book your ticket and get updates

x



C# Corner

CONGRATULATIONS! C# Corner Q1, 2021 MVPs Announced

:come a member

Login

Post

Ask Question



# Create Table In PDF using C# And iTextSharp



Vivek Kumar

Updated date Feb 06, 2016

304.6k

15

4

[Download Free .NET & JAVA Files API](#)  
[Try Free File Format APIs for Word/Excel/PDF](#)

Creating table is easy in C# using *itextSharp* and if you are not aware of *itextSharp* and how to generate PDF using C#, please click [here](#) for more information.

## Creating Table

Table can be created by creating object of *PdfPTable* Class. This class takes a parameter that refers to the number of columns required to be created in the table.

```
01. PdfPTable table = new PdfPTable(3);
```

This creates the table with 3 columns.

Next we need to add rows and columns to the above table object. This can be added by using the AddCell method of the above table object.

```
01. table.AddCell("Row 1, Col 1");  
02. table.AddCell("Row 1, Col 2");  
03. table.AddCell("Row 1, Col 3");  
04.  
05. table.AddCell("Row 2, Col 1");
```

```
06. table.AddCell("Row 2, Col 2");
07. table.AddCell("Row 2, Col 3");
08.
09. table.AddCell("Row 3, Col 1");
10. table.AddCell("Row 3, Col 2");
11. table.AddCell("Row 3, Col 3");
```

Now we have to add this table object to the document (pdf) that we are creating by using the following line of code.

```
01. document.Add(table);
```

Now we have created a table with data as below.

 see result

We have many techniques to send the data into the table cell but here, I am using phrase for text value to the table cell and also we can give many properties to the table cell like *HorizontalAlignment*, *VerticalAlignment*, *Padding*, *Width* etc. We use *PdfPCell* object for the table cell for assigning any properties.

## Colspan in itextsharp using C#

itextsharp dll provides Colspan property to merge the columns in a table.

We use Colspan property on the PdfPCell object which creates the table cell. This object accepts many properties like ColSpan. After applying the required properties the created cell can be added to the table.

```
01. PdfPTable table = new PdfPTable(3);
02.
03. PdfPCell cell = new PdfPCell(new
    Phrase("Row 1 , Col 1, Col 2 and col 3"));
04. cell.Colspan = 3;
05. cell.HorizontalAlignment = Element.ALIGN_CENTER;
06. table.AddCell(cell);
07.
08. table.AddCell("Row 2, Col 1");
09. table.AddCell("Row 2, Col 1");
10. table.AddCell("Row 2, Col 1");
11.
12. table.AddCell("Row 3, Col 1");
13. cell = new PdfPCell(new Phrase("Row 3, Col 2 and Col3"));
14. cell.Colspan = 2;
15. table.AddCell(cell);
16.
17. cell = new PdfPCell(new Phrase("Row 4, Col 1 and Col2"));
18. cell.Colspan = 2;
19. table.AddCell(cell);
20. table.AddCell("Row 4, Col 3");
21.
22. document.Add(table);
```

**Output:**

Row 1 , Col 1, Col 2 and col 3		
Row 2, Col 1	Row 2, Col 1	Row 2, Col 1
Row 3, Col 1	Row 3, Col 2 and Col3	
Row 4, Col 1 and Col2		Row 4, Col 3

**Rowspan in itextsharp using C#**

It is similar to colspan and in the same way, we can use rowspan also in our code:

```

01. PdfPTable table = new PdfPTable(3);
02.
03. PdfPCell cell = new PdfPCell(new Phrase("Row 1, Col 1"));
04. table.AddCell(cell);
05. cell = new PdfPCell(new Phrase("Row 1, Col 2"));
06. table.AddCell(cell);
07. cell = new PdfPCell(new Phrase("Row 1, Col 3"));
08. table.AddCell(cell);
09.
10. cell = new PdfPCell(new Phrase("Row 2 , Col 1"));
11. table.AddCell(cell);
12. cell = new PdfPCell(new Phrase("Row 2, Col 2"));
13. table.AddCell(cell);
14. cell = new PdfPCell(new Phrase("Row 2 and Row 3, Col 3"));
15. cell.Rowspan = 2;
16. table.AddCell(cell);
17.
18. cell = new PdfPCell(new Phrase("Row 3, Col 1"));
19. table.AddCell(cell);
20. cell = new PdfPCell(new Phrase("Row 3, Col 2"));
21. table.AddCell(cell);
22.
23. document.Add(table);

```

**Output:****Colspan and rowspan in itextsharp using C#**

We can also use both colspan and rowspan for one table cell as below:

```

01. PdfPTable table = new PdfPTable(3);
02.
03. PdfPCell cell = new PdfPCell(new Phrase("Row 1, Col 1"));
04. table.AddCell(cell);
05. cell = new PdfPCell(new Phrase("Row 1, Col 2"));

```

```
06. table.AddCell(cell);
07. cell = new PdfPCell(new Phrase("Row 1, Col 3"));
08. table.AddCell(cell);
09.
10. cell = new PdfPCell(new Phrase("Row 2 ,Col 1"));
11. table.AddCell(cell);
12.
13. cell = new PdfPCell(new Phrase("Row 2 and row 3, Col 2 and Col 3"));
14. cell.Rowspan = 2;
15. cell.Colsan = 2;
16. table.AddCell(cell);
17.
18. cell = new PdfPCell(new Phrase("Row 3, Col 1"));
19. table.AddCell(cell);
20.
21. document.Add(table);
```

### Output:

Row 1, Col 1	Row 1, Col 2	Row 1, Col 3
Row 2 ,Col 1	Row 2 and row 3, Col 2 and Col 3	
Row 3, Col 1		

### Rotate table cell in itextSharp using C#

We can also rotate a text inside a table cell but we can set the rotation property as multiple of 90 only as below.

```
01. PdfPTable table = new PdfPTable(3);
02.
03. PdfPCell cell = new PdfPCell(new Phrase("Row 1, Col 1"));
04. table.AddCell(cell);
05.
06. cell = new PdfPCell(new Phrase("Row 1, Col 2"));
07. cell.Rotation = 90;
08. table.AddCell(cell);
09.
10. cell = new PdfPCell(new Phrase("Row 1, Col 3"));
11. cell.Rotation = -90;
12. table.AddCell(cell);
13.
14. document.Add(table);
```

### Output:

Row 1, Col 1	Row 1, Col 2	Row 1, Col 3
--------------	--------------	--------------

In this way we can use *Colspan*, *Rowspan* and *Rotation* in the table in *itextSharp* using C#.

You can also [download the sample code](#) for your reference.

[Create Table](#)
[PDF](#)
[C#](#)
[iTextSharp](#)

Next Recommended Reading

[Create Email Body With Dynamic Table Format In C#](#)



Vivek Kumar *TOP 500*

Microsoft Certified Professional | C# Corner MVP | Dzone MVB | Author | Speaker

<https://vivekkumar.com>

182

3.2m

2

[View Previous Comments](#)

4

15



Type your comment here and press Enter Key (Minimum 10 characters)



Hi Can anyone Please help me with the C# program to display AA,AB,AC..... so on for total rows/Record in PDFfile and it has to work as index, for eg:- 1stRow AA, 2ndRow AB, 3rdRow AC, 4thRow AD.....so on, Can any one please help me on this i am need in this code urgently, Thanks in advance, Zeb.

[Zeb dee](#)

Mar 18, 2021

1968 16 209

0

0

Reply



Thank you so much

[jariya boonchalew](#)

Mar 03, 2020

1929 55 0

0

0

Reply

Is it possible to read tables in existing documents?

[Sam Hobbs](#)

Jan 18, 2019

**47 29.5k 1.8m**

0 0 Reply



Thanks, This helped me lot

[Siva kumar](#)

Dec 26, 2018

**1883 101 0**

0 0 Reply

I need a table like this. carr | 01/07/2018 | 02/07/2018 | 03/07/2018 | | AP | OP | AP | OP | AP |  
OP | 1325 | X | | X | | |[Luiz Junior](#)

Jul 10, 2018

**1967 17 0**

0 0 Reply



I need a table like this.

[Luiz Junior](#)

Jul 10, 2018

**1967 17 0**

0 0 Reply



I need a table like this.

[Luiz Junior](#)

Jul 10, 2018

**1967 17 0**

0 0 Reply



How to export database data into pdf using itextsharp in c# windows form

[Amin Merchant](#)

Apr 11, 2018

**1976 8 0**

0 0 Reply



Dear Vivek Sir, How can I use "SutonnyMJ" and "Arial" font to make pdf from datagridview?

[Shovan Saha](#)

Aug 26, 2017

**1663 321 59.9k**

0 0 Reply



What if the column is 10 20 or 30 are you going to repeat all these ?

[weng tan](#)

Feb 21, 2017

**1950 34 0**

0 0 Reply

## LATEST BLOGS

How To Enable And Disable MFA Using PowerShell

Data Operations Using Pandas In Python

SQL Vs TSQL

Detect Object And Open Servo Motor Gate Using Ultrasonic Sensor

Add Content Editor Web Part To SharePoint Online

Difference between JavaScript and TypeScript

Rearrange Files In Desktop With Their Extensions

Create A Folder And Set Unique Permission Using PnP PowerShell

What Is The IOT (Internet Of Things)

What Are Some Of The Best Ways To Learn Programming

[View All](#) 



[About Us](#) [Contact Us](#) [Privacy Policy](#) [Terms](#) [Media Kit](#) [Sitemap](#) [Report a Bug](#) [FAQ](#) [Partners](#)  
[C# Tutorials](#) [Common Interview Questions](#) [Stories](#) [Consultants](#) [Ideas](#) [Certifications](#)

©2021 C# Corner. All contents are copyright of their authors.