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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.

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

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.



itextsharp.dll provides Colspan property to merge th

ASK A QUESTION

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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);

```



Row 1, Col 1	Row 1, Col 2	ASK A QUESTION	CONTRIBUTE
Row 2, Col 1	Row 2, Col 2	Row 2 and Row 3, Col 3	
Row 3, Col 1	Row 3, Col 2		

## 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.Colspan = 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:

 C#Corner	Row 1, C	ASK A QUESTION	CONTRIBUTE
-------------------------------------------------------------------------------------------	----------	----------------	------------

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.

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Create Table

PDF

C#

iTextSharp



Vivek Kumar **TOP 500**

Vivek kumar is a Microsoft Certified Professional. He loves to learn new technology and share knowledge.

<http://www.c-sharpcorner.com/members/vivek-kumar37>

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Type your comment here and press Enter Key (Minimum 18 characters)



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

weng tan

1413 1 0

Feb 21, 2017

0 0 Reply



If no of column is more than it is not fit in page and not visible So what to do in this scenario?

Pruthvi Patel

1335 79 5.4k

Dec 21, 2016

0 0 Reply



Great

Subash

266 4.8k 13.9k

Aug 29, 2016

0 1 Reply



Thank you

Vivek Kumar

407 2.9k 316.2k

Sep 20, 2016

0



Nice information...adds value to your previous article.

Ranjeet Patra

601 1.4k 65.1k

Feb 06, 2016

1 1 Reply



Thank you Ranjeet

Vivek Kumar

407 2.9k 316.2k

Feb 06, 2016


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**Konsultrum Ch** · Blekinge Tekniska Högskola

Hi,

Can we adjust the with of column in ltextSharp Table ???

Like · Reply · Mar 3, 2017 5:54am


**Ana Calle** · EUP Valladolid

 Very good sample, and illustrative,  
can we download the sample code?, the link above seems not work . Thank!!

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