



Feb 05 2016 Blog

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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.

```
table.AddCell("Row 1, Col 1");
      table.AddCell("Row 1, Col 2");
02.
03.
      table.AddCell("Row 1, Col 3");
04.
05.
      table.AddCell("Row 2, Col 1");
      table.AddCell("Row 2, Col 2");
06.
      table.AddCell("Row 2, Col 3");
07.
08.
09.
      table.AddCell("Row 3, Col 1");
10.
      table.AddCell("Row 3, Col 2");
     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.



ASK A QUESTION itextsharp all provides Colspan property to merge th

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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.

```
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");
      cell = new PdfPCell(new Phrase("Row 3, Col 2 and Col3"));
13.
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 a	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:

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

Row C. Coldrner	Row 1, Col 2	ASK A QUESTION		CONTRIBUTE
Row 2, Col 1	Row 2, Col 2	Row 2 ar	610	
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:

```
PdfPTable table = new PdfPTable(3);
01.
02.
     PdfPCell cell = new PdfPCell(new Phrase("Row 1, Col 1"));
03.
04.
     table.AddCell(cell);
05.
     cell = new PdfPCell(new Phrase("Row 1, Col 2"));
     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 and row 3, Col 2 and Col 3"));
13.
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.

```
PdfPTable table = new PdfPTable(3);
02.
03.
      PdfPCell cell = new PdfPCell(new Phrase("Row 1, Col 1"));
      table.AddCell(cell);
04.
05.
06.
      cell = new PdfPCell(new Phrase("Row 1, Col 2"));
07.
      cell.Rotation = 90;
      table.AddCell(cell);
08.
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:



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. Download 100% FREE Spire Office APIs

Create Table

PDF

C#

iTextSharp



Vivek Kumar 10P 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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2 6



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 Feb 21, 2017

1413 1 0

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

Dec 21, 2016

1335 79 5.4k

0 0 Reply



Great

Subash Aug 29, 2016

266 4.8k 13.9k 0 1 Reply



Thank you

Vivek Kumar Sep 20, 2016

407 2.9k 316.2k

.

Feb 06, 2016



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

Ranjeet Patra Feb 06, 2016

601 1.4k 65.1k 1 1 Reply



Thank you Ranjeet

Vivek Kumar

407 2.9k 316.2k



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Konsultrum Ch · Blekinge Tekniska Högskola Hi,

Can we adjust the with of column in ItextSharp 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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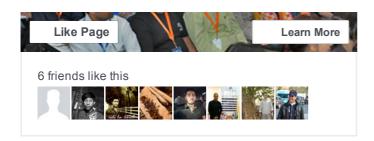
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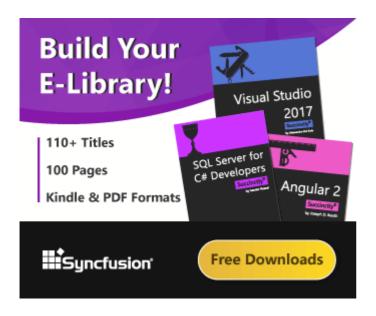
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