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# How to add surface chart in C# with ByteScout Spreadsheet SDK

## Tutorial on how to add surface chart in C#

The sample shows steps and algorithm of how to add surface chart and how to make it work in your C# application. Want to add surface chart in your C# app? ByteScout Spreadsheet SDK is designed for it. ByteScout Spreadsheet SDK is the SDK that can write and read, modify and calculate Excel and CSV spreadsheets. Most popular formulas are supported. You may import or export data to and from CSV, XML, JSON as well as to and from databases, arrays.

C# code samples for C# developers help to speed up coding of your application when using ByteScout Spreadsheet SDK. This C# sample code is all you need for your app. Just copy and paste the code, add references (if needs to) and you are all set! Further enhancement of the code will make it more vigorous.

ByteScout free trial version is available for download from our website. It includes all these programming tutorials along with source code samples.



# Source Code Files:

Program.cs

```
using System;
using System.Diagnostics;
using Bytescout.Spreadsheet;
using Bytescout.Spreadsheet.Charts;

namespace CSharp
{
    class Program
    {
        static void Main(string[] args)
        {
            // Create new Spreadsheet object
            Spreadsheet spreadsheet = new Spreadsheet();
            spreadsheet.RegistrationName = "demo";
            spreadsheet.RegistrationKey = "demo";

            // Add new worksheet
            Worksheet sheet = spreadsheet.Workbook.Worksheets.Add("Sample");

            // Add a data for Surface chart
            int count = 10;
            double step = 2 * Math.PI / (count - 1);
            for (int i = 0; i < count; i++)
                for (int j = 0; j < count; j++)
                    sheet[i, j].Value = Math.Sin(step * Math.Sqrt(i * i + j * j));

            // Add charts to worksheet
            Chart surfaceChart = sheet.Charts.AddChartAndFitInto(11, 1, 28, 8, ChartTyp
            for (int i = 0; i < count; i++)
                surfaceChart.SeriesCollection.Add(new Series(sheet.Range(0, i, 9, i)))

            surfaceChart = sheet.Charts.AddChartAndFitInto(11, 10, 28, 17, ChartType.Su
            for (int i = 0; i < count; i++)
                surfaceChart.SeriesCollection.Add(new Series(sheet.Range(0, i, 9, i)))

            surfaceChart = sheet.Charts.AddChartAndFitInto(29, 1, 46, 8, ChartType.Surf
            for (int i = 0; i < count; i++)
                surfaceChart.SeriesCollection.Add(new Series(sheet.Range(0, i, 9, i)))

            surfaceChart = sheet.Charts.AddChartAndFitInto(29, 10, 46, 17, ChartType.Su
            for (int i = 0; i < count; i++)
                surfaceChart.SeriesCollection.Add(new Series(sheet.Range(0, i, 9, i)))

            // Save it as XLS
            spreadsheet.SaveAs("Output.xls");

            // Close the document
            spreadsheet.Close();

            // Open generated XLS file in default associated application
            Process.Start("Output.xls");
        }
    }
}
```

VIDEO

https://www.youtube.com/watch?v=nm_7I0PN1TY

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