GemBox Support Center

How to create a chart in a Word file

Mario - GemBox - 2018-03-28 - 0 Comments - in GemBox.Document

Currently GemBox.Document lacks API support for chart elements; they are supported only through preservation in a DOCX file.

However, our other component, GemBox.Spreadsheet, does have API support for them and is able to create a chart element in an Excel file.

So, by using both GemBox.Spreadsheet and GemBox.Document, we can accomplish this task. With GemBox.Spreadsheet, we can create a chart element and save it to an image stream while with GemBox.Document, we can create a picture element from that image stream and add it to our document.

The following example demonstrates how to create a chart, export it as image stream and add it into a document.

C# code

```
class Program
{
    static void Main(string[] args)
    {
        ComponentInfo.SetLicense("FREE-LIMITED-KEY");
        SpreadsheetInfo.SetLicense("FREE-LIMITED-KEY");

        // Create chart as an image stream.
        MemoryStream chartStream = CreateChart(
            new string[] { "John Doe", "Fred Nurk", "Hans Meier" },
            new double[] { 3300, 2200, 1100 });

        // Create a document.
        var document = new DocumentModel();

        // Add an image.
        document.Sections.Add(
            new Section(document,
                new Paragraph(document,
                    new Picture(document, chartStream))));

        // Save a document.
```

```
            document.Save("Sample.docx");
        }

        static MemoryStream CreateChart(string[] names, double[] values)
        {
            // Create a spreadsheet.
            var workbook = new ExcelFile();
            var worksheet = workbook.Worksheets.Add("Sheet1");

            // Add data that will be used by chart.
            int count = names.Length;
            for (int i = 0; i < count; i++)
            {
                worksheet.Cells[i, 0].Value = names[i];
                worksheet.Cells[i, 1].Value = values[i];
            }

            // Create chart and select data for it.
            var chart = (BarChart)worksheet.Charts.Add(ChartType.Bar, "D2
", "J15");
            chart.SelectData(worksheet.Cells.GetSubrangeRelative(0, 0, 2,
 count), true, false, true);
            chart.Series[0].IsLegendEntryVisible = false;

            // Save chart to an image stream.
            var imageStream = new MemoryStream();
            var imageOptions = GemBox.Spreadsheet.SaveOptions.ImageDefaul
t;
            chart.Format().Save(imageStream, imageOptions);

            return imageStream;
        }
}
```

VB.NET code

```
Module Program
    Sub Main()
        ComponentInfo.SetLicense("FREE-LIMITED-KEY")
        SpreadsheetInfo.SetLicense("FREE-LIMITED-KEY")
```

```
        ' Create chart as an image stream.
        Dim chartStream As MemoryStream = CreateChart(
            New String() {"John Doe", "Fred Nurk", "Hans Meier"},
            New Double() {3300, 2200, 1100})

        ' Create a document.
        Dim document = New DocumentModel()

        ' Add an image.
        document.Sections.Add(
            New Section(document,
                New Paragraph(document,
                    New Picture(document, chartStream))))

        ' Save a document.
        document.Save("Sample.docx")
    End Sub

    Private Function CreateChart(names As String(), values As Double(
)) As MemoryStream
        ' Create a spreadsheet.
        Dim workbook = New ExcelFile()
        Dim worksheet = workbook.Worksheets.Add("Sheet1")

        ' Add data that will be used by chart.
        Dim count = names.Length
        For i = 0 To count - 1
            worksheet.Cells(i, 0).Value = names(i)
            worksheet.Cells(i, 1).Value = values(i)
        Next

        ' Create chart and select data for it.
        Dim chart = DirectCast(worksheet.Charts.Add(ChartType.Bar, "D
2", "J15"), BarChart)
        chart.SelectData(worksheet.Cells.GetSubrangeRelative(0, 0, 2,
 count), True, False, True)
        chart.Series(0).IsLegendEntryVisible = False

        ' Save chart to an image stream.
        Dim imageStream = New MemoryStream()
        Dim imageOptions = GemBox.Spreadsheet.SaveOptions.ImageDefaul
```

```
t
        chart.Format().Save(imageStream, imageOptions)

        Return imageStream
    End Function
End Module
```

This is the resulting `Sample.docx` file: