

Siberix PDF Sparkle for Silverlight

User's Guide

User's Guide for Siberix PDF Sparkle 2.0 for Silverlight

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Overview

Siberix PDF Sparkle for Silverlight is a top-notch C# library for Silverlight 5.0 designed to create industry standard PDF documents dynamically with API calls. It provides an interface similar to the System.Drawing.Graphics class for every page of the PDF document being created.

Top Features

- PDF publishing
- Easy to use API (similar to GDI+)
- Hyperlinks and Bookmarks
- PDF viewer preferences
- Custom PDF properties
- 128-bit Encryption
- Image alpha channels
- Clippings and transformations
- RGB, CMYK and Grey PDF color schemes
- Pen styles, widths, colors, caps and joins
- Path composition, Bezier curves and Splines
- Lines, Rectangles, Ellipses, Polylines, Polygons, Arcs and Pies
- SolidColor, LinearGradient, RadialGradient and Texture brushes

System Requirements

- Silverlight 5.0
- Minimum of 256 Mb of RAM (512 and more recommended)
- Memory requirements vary according to the nature of the project

Installation

Siberix PDF Sparkle for Silverlight doesn't require any installation. All you need to do is to copy the [Siberix.PDFSparkle.dll](#) into your project's folder and make a reference to it.

Graphics

This namespace provides core drawing functionality.

Measuring

The default unit of measure for most of the elements described in this User's Guide is point ([pt](#)). You may find some useful expressions below.

- 1 pt = 1 / 72 inch
- 1 px = 1 / 96 inch - [May vary for particular screen devices and modes](#)
- 1 mm = 1 / 25.4 inch

Colors

Colors are widely used across the document. Every time you create a pen or a brush you need to provide a reference to a color object. Siberix PDF Sparkle for Silverlight allows to specify colors in two different ways: 1. You can create a new color providing Red, Green, Blue and Alpha byte values; 2. You can select a color by its name from a collection of predefined colors. To access the collection of predefined colors use properties of the [Siberix.Sparkle.Graphics.Colors](#) class.

	AliceBlue		DarkGreen		Gray		LightYellow
	AntiqueWhite		DarkKhaki		Green		Lime
	Aqua		DarkMagenta		GreenYellow		LimeGreen
	Aquamarine		DarkOliveGreen		Honeydew		Linen
	Azure		DarkOrange		HotPink		Magenta
	Beige		DarkOrchid		IndianRed		Maroon
	Bisque		DarkRed		Indigo		MediumAquamarine
	Black		DarkSalmon		Ivory		MediumBlue
	BlanchedAlmond		DarkSeaGreen		Khaki		MediumOrchid
	Blue		DarkSlateBlue		Lavender		MediumPurple
	BlueViolet		DarkSlateGray		LavenderBlush		MediumSeaGreen
	Brown		DarkTurquoise		LawnGreen		MediumSlateBlue
	BurlyWood		DarkViolet		LemonChiffon		MediumSpringGreen
	CadetBlue		DeepPink		LightBlue		MediumTurquoise
	Chartreuse		DeepSkyBlue		LightCoral		MediumVioletRed
	Chocolate		DimGray		LightCyan		MidnightBlue
	Coral		DodgerBlue		LightGoldenrodYellow		MintCream
	CornflowerBlue		Firebrick		LightGray		MistyRose
	Cornsilk		FloralWhite		LightGreen		Moccasin
	Crimson		ForestGreen		LightPink		NavajoWhite
	Cyan		Fuchsia		LightSalmon		Navy
	DarkBlue		Gainsboro		LightSeaGreen		OldLace
	DarkCyan		GhostWhite		LightSkyBlue		Olive
	DarkGoldenrod		Gold		LightSlateGray		OliveDrab
	DarkGray		Goldenrod		LightSteelBlue		Orange

 OrangeRed	 Plum	 SeaShell	 Teal
 Orchid	 PowderBlue	 Sienna	 Thistle
 PaleGoldenrod	 Purple	 Silver	 Tomato
 PaleGreen	 Red	 SkyBlue	 Turquoise
 PaleTurquoise	 RosyBrown	 SlateBlue	 Violet
 PaleVioletRed	 RoyalBlue	 SlateGray	 Wheat
 PapayaWhip	 SaddleBrown	 Snow	 White
 PeachPuff	 Salmon	 SpringGreen	 WhiteSmoke
 Peru	 SandyBrown	 SteelBlue	 Yellow
 Pink	 SeaGreen	 Tan	 YellowGreen

Examples

[CS]

```
Siberix.Sparkle.Graphics.Color color1 = new Siberix.Sparkle.Graphics.Color(255, 0, 0);
Siberix.Sparkle.Graphics.Color color2 = new Siberix.Sparkle.Graphics.Color(50, 255, 0, 0);
Siberix.Sparkle.Graphics.Color color3 = Siberix.Sparkle.Graphics.Colors.Red;
```

[VB]

```
Dim color1 As Siberix.Sparkle.Graphics.Color = New Siberix.Sparkle.Graphics.Color(255, 0, 0)
Dim color2 As Siberix.Sparkle.Graphics.Color = New Siberix.Sparkle.Graphics.Color(50, 255, 0, 0)
Dim color3 As Siberix.Sparkle.Graphics.Color = Siberix.Sparkle.Graphics.Colors.Red
```

Pens

Every time you draw a line or a curve you have to provide a reference to a pen object. Siberix PDF Sparkle for Silverlight allows to set individual pen attributes including Color, Width, Style, Cap, Join and MiterLimit.

Predefined collection

You may use a collection of predefined pens to ease the development within your code. To access the collection of predefined pens use properties of the [Siberix.Sparkle.Graphics.Pens](#) class.

Examples

[CS]

```
Siberix.Sparkle.Graphics.Pen pen1 = new Siberix.Sparkle.Graphics.Pen(Siberix.Sparkle.Graphics.Colors.Red);
Siberix.Sparkle.Graphics.Pen pen2 = new Siberix.Sparkle.Graphics.Pen(new Siberix.Sparkle.Graphics.Color(255, 0, 0), 2,
Siberix.Sparkle.Graphics.DashStyle.DashDot);
Siberix.Sparkle.Graphics.Pen pen3 = Siberix.Sparkle.Graphics.Pens.Red;
```

[VB]

```
Dim pen1 As Siberix.Sparkle.Graphics.Pen = New Siberix.Sparkle.Graphics.Pen(Siberix.Sparkle.Graphics.Colors.Red)
Dim pen2 As Siberix.Sparkle.Graphics.Pen = New Siberix.Sparkle.Graphics.Pen(New Siberix.Sparkle.Graphics.Color(255, 0, 0), 2,
Siberix.Sparkle.Graphics.DashStyle.DashDot)
Dim pen3 As Siberix.Sparkle.Graphics.Pen = Siberix.Sparkle.Graphics.Pens.Red
```

Brushes

Siberix PDF Sparkle for Silverlight provides several types of brushes including SolidColorBrush, LinearGradientBrush, RadialGradientBrush and TextureBrush to output text or to fill the interiors of graphical shapes.

SolidColorBrush

Predefined collection

You may use a collection of predefined brushes to ease the development within your code. To access the collection of predefined brushes use properties of the [Siberix.Sparkle.Graphics.Brushes](#) class.

Examples

[CS]

```
Siberix.Sparkle.Graphics.SolidColorBrush brush1 = new
Siberix.Sparkle.Graphics.SolidColorBrush(Siberix.Sparkle.Graphics.Colors.Red);

Siberix.Sparkle.Graphics.SolidColorBrush brush2 = new Siberix.Sparkle.Graphics.SolidColorBrush(new
Siberix.Sparkle.Graphics.Color(255, 0, 0));

Siberix.Sparkle.Graphics.Brush brush3 = Siberix.Sparkle.Graphics.Brushes.Red;
```

[VB]

```
Dim brush1 As Siberix.Sparkle.Graphics.SolidColorBrush = New
Siberix.Sparkle.Graphics.SolidColorBrush(Siberix.Sparkle.Graphics.Colors.Red)

Dim brush2 As Siberix.Sparkle.Graphics.SolidColorBrush = New Siberix.Sparkle.Graphics.SolidColorBrush(New
Siberix.Sparkle.Graphics.Color(255, 0, 0))

Dim brush3 As Siberix.Sparkle.Graphics.Brush = Siberix.Sparkle.Graphics.Brushes.Red
```

LinearGradientBrush

Examples

[CS]

```
Siberix.Sparkle.Graphics.LinearGradientBrush brush1 = new
Siberix.Sparkle.Graphics.LinearGradientBrush(Siberix.Sparkle.Graphics.Colors.Red, Siberix.Sparkle.Graphics.Colors.Yellow);

Siberix.Sparkle.Graphics.ColorBlend blend = new Siberix.Sparkle.Graphics.ColorBlend();
blend.Add(Siberix.Sparkle.Graphics.Colors.Red, 0);
blend.Add(Siberix.Sparkle.Graphics.Colors.Yellow, 0.5F);
blend.Add(Siberix.Sparkle.Graphics.Colors.Blue, 1);

Siberix.Sparkle.Graphics.LinearGradientBrush brush2 = new Siberix.Sparkle.Graphics.LinearGradientBrush(blend, 35);
```

[VB]

```
Dim brush1 As Siberix.Sparkle.Graphics.LinearGradientBrush = New
Siberix.Sparkle.Graphics.LinearGradientBrush(Siberix.Sparkle.Graphics.Colors.Red, Siberix.Sparkle.Graphics.Colors.Yellow)

Dim blend As Siberix.Sparkle.Graphics.ColorBlend = New Siberix.Sparkle.Graphics.ColorBlend()
blend.Add(Siberix.Sparkle.Graphics.Colors.Red, 0)
blend.Add(Siberix.Sparkle.Graphics.Colors.Yellow, 0.5F)
blend.Add(Siberix.Sparkle.Graphics.Colors.Blue, 1)

Dim brush2 As Siberix.Sparkle.Graphics.LinearGradientBrush = New Siberix.Sparkle.Graphics.LinearGradientBrush(blend, 35)
```


RadialGradientBrush

Examples

[CS]

```
Siberix.Sparkle.Graphics.RadialGradientBrush brush1 = new
Siberix.Sparkle.Graphics.RadialGradientBrush(Siberix.Sparkle.Graphics.Colors.Red, Siberix.Sparkle.Graphics.Colors.Yellow);

Siberix.Sparkle.Graphics.ColorBlend blend = new Siberix.Sparkle.Graphics.ColorBlend();
blend.Add(Siberix.Sparkle.Graphics.Colors.Red, 0);
blend.Add(Siberix.Sparkle.Graphics.Colors.Yellow, 0.5F);
blend.Add(Siberix.Sparkle.Graphics.Colors.Blue, 1);

Siberix.Sparkle.Graphics.Point center = new Siberix.Sparkle.Graphics.Point(0.4F, 0.6F);
Siberix.Sparkle.Graphics.Point radius = new Siberix.Sparkle.Graphics.Point(0.8F, 0.4F);
Siberix.Sparkle.Graphics.Point focus = new Siberix.Sparkle.Graphics.Point(0.7F, 0.2F);

Siberix.Sparkle.Graphics.RadialGradientBrush brush2 = new Siberix.Sparkle.Graphics.RadialGradientBrush(blend, 35, center,
radius, focus);
```

[VB]

```
Dim brush1 As Siberix.Sparkle.Graphics.RadialGradientBrush = New
Siberix.Sparkle.Graphics.RadialGradientBrush(Siberix.Sparkle.Graphics.Colors.Red, Siberix.Sparkle.Graphics.Colors.Yellow)

Dim blend As Siberix.Sparkle.Graphics.ColorBlend = New Siberix.Sparkle.Graphics.ColorBlend()
blend.Add(Siberix.Sparkle.Graphics.Colors.Red, 0)
blend.Add(Siberix.Sparkle.Graphics.Colors.Yellow, 0.5F)
blend.Add(Siberix.Sparkle.Graphics.Colors.Blue, 1)

Dim center As Siberix.Sparkle.Graphics.Point = New Siberix.Sparkle.Graphics.Point(0.4F, 0.6F)
Dim radius As Siberix.Sparkle.Graphics.Point = New Siberix.Sparkle.Graphics.Point(0.8F, 0.4F)
Dim focus As Siberix.Sparkle.Graphics.Point = New Siberix.Sparkle.Graphics.Point(0.7F, 0.2F)

Dim brush2 As Siberix.Sparkle.Graphics.RadialGradientBrush = New Siberix.Sparkle.Graphics.RadialGradientBrush(blend, 35,
center, radius, focus)
```

TextureBrush

Examples

[CS]

```
Siberix.Sparkle.Graphics.Image image = new Siberix.Sparkle.Graphics.Image("image stream");

Siberix.Sparkle.Graphics.TextureBrush brush = new Siberix.Sparkle.Graphics.TextureBrush(image);
```

[VB]

```
Dim image As Siberix.Sparkle.Graphics.Image = New Siberix.Sparkle.Graphics.Image("image stream")

Dim brush As Siberix.Sparkle.Graphics.TextureBrush = New Siberix.Sparkle.Graphics.TextureBrush(image)
```

Fonts

Siberix PDF Sparkle for Silverlight allows to output text using any valid True Type font. Please note that you are only allowed to use fonts that permit document embedding or you have a correspondent license from the creator of the font.

Examples

[CS]

```
Siberix.Sparkle.Graphics.Font font = new Siberix.Sparkle.Graphics.Font("font stream", 12);
```

[VB]

```
Dim font As Siberix.Sparkle.Graphics.Font = New Siberix.Sparkle.Graphics.Font("font stream", 12)
```

Images

Siberix PDF Sparkle for Silverlight supports PNG and JPEG image formats.

Examples

[CS]

```
Siberix.Sparkle.Graphics.Image image = new Siberix.Sparkle.Graphics.Image("image stream");
```

[VB]

```
Dim image As Siberix.Sparkle.Graphics.Image = New Siberix.Sparkle.Graphics.Image("image stream")
```

Document

Siberix PDF Sparkle for Silverlight is a very simple, yet powerful PDF generation tool. PDF document creation has never been that easy. You start with the root object for the PDF document, set info properties and security preferences, then you add pages to the root object and for every page you get an access to the IGraphics interface that allows to output text, images and graphical shapes. Along the way, you may build a bookmark tree and enrich the final PDF document with a set of hyperlinks.

Examples

[CS]

```
Siberix.Sparkle.PDF.Document document = new Siberix.Sparkle.PDF.Document();

document.Info.Title = "Example";
document.Info.Author = "Siberix Technologies, Canada";
document.Info.Creator = "Siberix PDF Sparkle for Silverlight";

document.User = "test";
document.Owner = "siberix";

document.Permissions.Add = false;
document.Permissions.Copy = false;
document.Permissions.Modify = false;
document.Permissions.Print = true;

Siberix.Sparkle.PDF.IPage page = document.AddPage(612, 792);

document.AddBookmark(0, 0, 150, "Text", true);

page.Graphics.Font = new Siberix.Sparkle.Graphics.Font("font stream", 12);
page.Graphics.Brush = Siberix.Sparkle.Graphics.Brushes.Red;
page.Graphics.DrawString(10, 150, "Hello PDF");

document.Generate("output stream");
```

[VB]

```
Dim document As Siberix.Sparkle.PDF.Document = New Siberix.Sparkle.PDF.Document()

document.Info.Title = "Example"
document.Info.Author = "Siberix Technologies, Canada"
document.Info.Creator = "Siberix PDF Sparkle for Silverlight"

document.User = "test"
document.Owner = "siberix"

document.Permissions.Add = False
document.Permissions.Copy = False
document.Permissions.Modify = False
document.Permissions.Print = True

Dim page As Siberix.Sparkle.PDF.IPage = document.AddPage(612, 792)

document.AddBookmark(0, 0, 150, "Text", True)

page.Graphics.Font = New Siberix.Sparkle.Graphics.Font("font stream", 12)
page.Graphics.Brush = Siberix.Sparkle.Graphics.Brushes.Red
page.Graphics.DrawString(10, 150, "Hello PDF")

document.Generate("output stream")
```