VectSharp

1.6.0

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VectSharp: a light library for C# vector graphics

1.1 Introduction

VectSharp is a library to create vector graphics (including text) in C#, without too many dependencies.

It includes an abstract layer on top of which output layers can be written. Currently, there are four available output layers: VectSharp.PDF produces PDF documents, VectSharp.Canvas produces an Avalonia. \leftarrow Controls.Canvas object (https://avaloniaui.net/docs/controls/canvas) containing the rendered graphics objects, VectSharp.Raster produces raster images in PNG format, and VectSharp.SVG produces vector graphics in SVG format.

VectSharp is written using .NET Core, and is available for Mac, Windows and Linux. It is released under a GPLv3 license. It includes 14 standard fonts, also released under a GPL license.

Since version 2.0.0, VectSharp.Raster is released under an AGPLv3 license.

VectSharp.MuPDFUtils, also released under an AGPLv3 license, contains some utility functions that use [MuP←DFCore]() to make it possible to include in VectSharp graphics images in various formats.

1.2 Installing VectSharp

To include VectSharp in your project, you will need one of the output layer NuGet packages: VectSharp.PDF, VectSharp.Canvas, VectSharp.Raster, or VectSharp.SVG. You may want the VectSharp.↔ MuPDFUtils package if you wish to manipulate raster images.

1.3 Usage

You can find the full documentation for the VectSharp library at the documentation website. A PDF reference manual is also available.

In general, working with VectSharp involves: creating a Document, adding Pages, drawing to the Pages' Graphics objects and, finally, exporting them to a PDF document, Canvas, PNG image or SVG document.

```
• Create a Document:
 using VectSharp;
 Document doc = new Document();
• Add a Page:
  doc.Pages.Add(new Page(1000, 1000));
• Draw to the Page's Graphics object:
 Graphics gpr = doc.Pages.Last().Graphics;
gpr.FillRectangle(100, 100, 800, 800, Colour.FromRgb(128, 128, 128));
· Save as PDF document:
  using VectSharp.PDF;
  doc.SaveAsPDF(@"Test.pdf");
• Export the graphics to a Canvas:
  using VectSharp.Canvas;
 Avalonia.Controls.Canvas can = doc.Pages.Last().PaintToCanvas();
· Save as a PNG image:
 using VectSharp.Raster;
  doc.Pages.Last().SaveAsPNG(@"Sample.png");
· Save as an SVG document:
 using VectSharp.SVG;
  //...
  doc.Pages.Last().SaveAsSVG(@"Sample.svg");
```

The public classes and methods are fully documented, and you can find a (much) more detailed code example in MainWindow.xaml.cs.

1.4 Creating new output layers

VectSharp can be easily extended to provide additional output layers. To do so:

- 1. Create a new class implementing the IGraphicsContext interface.
- 2. Provide an extension method to either the Page or Document types.
- 3. Somewhere in the extension method, call the CopyToIGraphicsContext method on the Graphics object of the Pages.
- 4. Opportunely save or return the rendered result.

1.5 Compiling VectSharp from source

The VectSharp source code includes an example project (VectSharp.Demo) presenting how VectSharp can be used to produce graphics.

To be able to compile VectSharp from source, you will need to install the .NET Core 3.0 SDK for your operating system.

You can use Microsoft Visual Studio to compile the program. The following instructions will cover compiling VectSharp from the command line, instead.

First of all, you will need to download the VectSharp source code: VectSharp.tar.gz and extract it somewhere.

1.5.1 Windows

Open a command-line window in the folder where you have extracted the source code, and type:

BuildDemo <Target>

Where <Target> can be one of Win-x64, Linux-x64 or Mac-x64 depending on which platform you wish to generate executables for.

In the Release folder and in the appropriate subfolder for the target platform you selected, you will find the compiled program.

1.5.2 macOS and Linux

Open a terminal in the folder where you have extracted the source code, and type:

./BuildDemo.sh <Target>

Where <Target> can be one of Win-x64, Linux-x64 or Mac-x64 depending on which platform you wish to generate executables for.

In the Release folder and in the appropriate subfolder for the target platform you selected, you will find the compiled program.

If you receive an error about permissions being denied, try typing chmod +x BuildDemo.sh first.

VectSharp: a light library for C# vector graphics	

Namespace Index

2.1 Packages

Here are the packages with brief descriptions (if available):

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VectSharp.Canvas	1
VectSharp.MuPDFUtils	
VectSharp.PDF	
VectSharp.Raster	
VectSharp.SVG	

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Hierarchical Index

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Class Index

4.1 Class List

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Contains methods to render a Page to an Avalonia.Controls.Canvas	17
VectSharp.TrueTypeFile.Bearings	
Represents the left- and right-side bearings of a glyph	21
VectSharp.Colour	
Represents an RGB colour	22
VectSharp.Colours	
Standard colours	32
VectSharp.Font.DetailedFontMetrics	
Represents detailed information about the metrics of a text string when drawn with a certain font	67
VectSharp.DisposableIntPtr	
An IDisposable wrapper around an IntPtr that frees the allocated memory when it is disposed .	70
VectSharp.Document	
Represents a collection of pages	71
VectSharp.Font	
Represents a typeface with a specific size	72
VectSharp.FontFamily	
Represents a typeface	76
VectSharp.Graphics	
Represents an abstract drawing surface	81
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VectSharp.Page	
Represents a Graphics object with a width and height	123
VectSharp.SVG.Parser	
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VectSharp.Point	
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VectSharp.TrueTypeFile.TrueTypePoint	
Represents a point in a TrueType path description	166
VectSharp.UnbalancedStackException	
The exception that is thrown when an unbalanced graphics state stack occurs	168
VectSharp.TrueTypeFile.VerticalMetrics	
Represents the maximum heigth above and depth below the baseline of a glyph	168

Namespace Documentation

5.1 VectSharp Namespace Reference

Classes

• struct Colour

Represents an RGB colour.

· class Colours

Standard colours.

· class DisposableIntPtr

An IDisposable wrapper around an IntPtr that frees the allocated memory when it is disposed.

class Document

Represents a collection of pages.

· class Font

Represents a typeface with a specific size.

class FontFamily

Represents a typeface.

· class Graphics

Represents an abstract drawing surface.

class GraphicsPath

Represents a graphics path that can be filled or stroked.

• interface IGraphicsContext

This interface should be implemented by classes intended to provide graphics output capability to a Graphics object.

struct LineDash

Represents instructions on how to paint a dashed line.

class Page

Represents a Graphics object with a width and height.

struct Point

Represents a point relative to an origin in the top-left corner.

class RasterImage

Represents a raster image, created from raw pixel data. Consider using the derived classes included in the NuGet package "VectSharp.MuPDFUtils" if you need to load a raster image from a file or a Stream.

· class Segment

Represents a segment as part of a GraphicsPath.

• struct Size

Represents the size of an object.

class TrueTypeFile

Represents a font file in TrueType format. Reference: http://stevehanov.ca/blog/?id=143, https://developer.apple.com/fonts/TrueType-Reference-Manual/, https://docs. \leftarrow microsoft.com/en-us/typography/opentype/spec/

· class UnbalancedStackException

The exception that is thrown when an unbalanced graphics state stack occurs.

Enumerations

enum TextBaselines { TextBaselines.Top, TextBaselines.Bottom, TextBaselines.Middle, TextBaselines.Baseline
 }

Represent text baselines.

• enum TextAnchors { TextAnchors.Left, TextAnchors.Center, TextAnchors.Right }

Represents text anchors.

enum LineCaps { LineCaps.Butt = 0, LineCaps.Round = 1, LineCaps.Square = 2 }

Represents line caps.

• enum LineJoins { LineJoins.Bevel = 2, LineJoins.Miter = 0, LineJoins.Round = 1 }

Represents line joining options.

enum SegmentType {
 SegmentType.Move, SegmentType.Line, SegmentType.CubicBezier, SegmentType.Arc,
 SegmentType.Close }

Types of Segment.

 enum UnbalancedStackActions { UnbalancedStackActions.Throw, UnbalancedStackActions.SilentlyFix, UnbalancedStackActions.Ignore }

Represents ways to deal with unbalanced graphics state stacks.

enum PixelFormats { PixelFormats.RGB, PixelFormats.BGR, PixelFormats.BGR, PixelFormats.BGRA }
 Represents the pixel format of a raster image.

5.1.1 Enumeration Type Documentation

5.1.1.1 LineCaps

```
enum VectSharp.LineCaps [strong]
```

Represents line caps.

Enumerator

Butt The ends of the line are squared off at the endpoints.		The ends of the line are squared off at the endpoints.
Round The ends of the lines are rounded.		The ends of the lines are rounded.
	Square	The ends of the lines are squared off by adding an half square box at each end.

Definition at line 83 of file Graphics.cs.

5.1.1.2 LineJoins

enum VectSharp.LineJoins [strong]

Represents line joining options.

Enumerator

Bevel	Consecutive segments are joined by straight corners.
Miter	Consecutive segments are joined by extending their outside edges until they meet.
Round	Consecutive segments are joined by arc segments.

Definition at line 104 of file Graphics.cs.

5.1.1.3 PixelFormats

enum VectSharp.PixelFormats [strong]

Represents the pixel format of a raster image.

Enumerator

RGB	RGB 24bpp format.
RGBA	RGBA 32bpp format.
BGR	BGR 24bpp format.
BGRA	BGR 32bpp format.

Definition at line 27 of file RasterImage.cs.

5.1.1.4 SegmentType

enum VectSharp.SegmentType [strong]

Types of Segment.

Enumerator

Move	The segment represents a move from the current point to a new point.
Line	The segment represents a straight line from the current point to a new point.
CubicBezier	The segment represents a cubic bezier curve from the current point to a new point.
Arc	The segment represents a circular arc from the current point to a new point.
Close	The segment represents the closing segment of a figure.

Definition at line 1029 of file Graphics.cs.

5.1.1.5 TextAnchors

enum VectSharp.TextAnchors [strong]

Represents text anchors.

Enumerator

Left	The current coordinate will determine the position of the left side of the text string.
Center	The current coordinate will determine the position of the center of the text string.
Right	The current coordinate will determine the position of the right side of the text string.

Definition at line 62 of file Graphics.cs.

5.1.1.6 TextBaselines

enum VectSharp.TextBaselines [strong]

Represent text baselines.

Enumerator

Тор	The current vertical coordinate determines where the top of the text string will be placed.
Bottom	The current vertical coordinate determines where the bottom of the text string will be placed.
Middle	The current vertical coordinate determines where the middle of the text string will be placed.
Baseline	The current vertical coordinate determines where the baseline of the text string will be placed.

Definition at line 36 of file Graphics.cs.

5.1.1.7 UnbalancedStackActions

enum VectSharp.UnbalancedStackActions [strong]

Represents ways to deal with unbalanced graphics state stacks.

Enumerator

Throw	If the graphics state stack is unbalanced, an exception will be thrown.
SilentlyFix	The graphics state stack will be automatically balanced by adding or removing calls to Graphics.Restore as necessary.
Ignore	No attempt will be made at correcting an unbalanced graphics state stack. This may cause issues with some consumers.

Definition at line 1882 of file Graphics.cs.

5.2 VectSharp.Canvas Namespace Reference

Classes

· class AvaloniaContextInterpreter

Contains methods to render a Page to an Avalonia. Controls. Canvas.

· class RenderAction

Represents a light-weight rendering action.

· class ResourceFontFamily

Represents a FontFamily created from a resource stream.

5.3 VectSharp.MuPDFUtils Namespace Reference

Classes

· class ImageURIParser

Provides a method to parse an image URI into a page.

class RasterImageFile

A Rasterlmage created from a file.

· class RasterImageStream

A RasterImage created from a stream.

5.4 VectSharp.PDF Namespace Reference

Classes

· class PDFContextInterpreter

Contains methods to render a Document as a PDF document.

5.5 VectSharp.Raster Namespace Reference

Classes

class Raster

Contains methods to render a page to a PNG image.

5.6 VectSharp.SVG Namespace Reference

Classes

class Parser

Contains methods to read an SVG image file.

class SVGContextInterpreter

Contains methods to render a Page as an SVG file.

Class Documentation

6.1 VectSharp.Canvas.AvaloniaContextInterpreter Class Reference

Contains methods to render a Page to an Avalonia. Controls. Canvas.

Public Types

enum TextOptions { TextOptions.AlwaysConvert, TextOptions.ConvertIfNecessary, TextOptions.NeverConvert
 }

Defines whether text items should be converted into paths when drawing.

Static Public Member Functions

- static Avalonia.Controls.Canvas PaintToCanvas (this Page page, TextOptions textOption=TextOptions.ConvertIfNecessary)
 Render a Page to an Avalonia.Controls.Canvas.
- static Avalonia.Controls.Canvas PaintToCanvas (this Page page, bool graphicsAsControls, TextOptions text
 — Option=TextOptions.ConvertIfNecessary)

Render a Page to an Avalonia. Controls. Canvas.

static Avalonia.Controls.Canvas PaintToCanvas (this Page page, bool graphicsAsControls, Dictionary
 string, Delegate > taggedActions, bool removeTaggedActionsAfterExecution=true, TextOptions text
 — Option=TextOptions.ConvertIfNecessary)

Render a Page to an Avalonia. Controls. Canvas.

Render a Page to an Avalonia. Controls. Canvas.

6.1.1 Detailed Description

Contains methods to render a Page to an Avalonia. Controls. Canvas.

Definition at line 1877 of file AvaloniaContext.cs.

18 Class Documentation

6.1.2 Member Enumeration Documentation

6.1.2.1 TextOptions

enum VectSharp.Canvas.AvaloniaContextInterpreter.TextOptions [strong]

Defines whether text items should be converted into paths when drawing.

Enumerator

AlwaysConvert	Converts all text items into paths.
ConvertIfNecessary	Converts all text items into paths, with the exception of those that use a standard font.
NeverConvert	Does not convert any text items into paths.

Definition at line 1882 of file AvaloniaContext.cs.

6.1.3 Member Function Documentation

6.1.3.1 PaintToCanvas() [1/4]

Render a Page to an Avalonia. Controls. Canvas.

Parameters

page	The Page to render.
graphicsAsControls	If this is true, each graphics object (e.g. paths, text) is rendered as a separate Avalonia.Controls.Control. Otherwise, they are directly rendered onto the drawing context (which is faster, but does not allow interactivity).
taggedActions	A Dictionary <string, delegate=""> containing the Actions that will be performed on items with the corresponding tag. If <i>graphicsAsControls</i> is true, the delegates should be voids that accept one parameter of type TextBlock or Path (depending on the tagged item), otherwise, they should accept one parameter of type RenderAction and return an IEnumerable<renderaction> of the actions that will actually be performed.</renderaction></string,>
removeTaggedActionsAfterExecution	Whether the Actions should be removed from <i>taggedActions</i> after their execution. Set to false if the same Action should be performed on multiple items with the same tag.
textOption	Defines whether text items should be converted into paths when drawing.

Returns

An Avalonia. Controls. Canvas containing the rendered graphics objects.

Definition at line 1945 of file AvaloniaContext.cs.

20 Class Documentation

6.1.3.2 PaintToCanvas() [2/4]

Render a Page to an Avalonia. Controls. Canvas.

Parameters

page	The Page to render.
graphicsAsControls	If this is true, each graphics object (e.g. paths, text) is rendered as a separate Avalonia.Controls.Control. Otherwise, they are directly rendered onto the drawing context (which is faster, but does not allow interactivity).
textOption	Defines whether text items should be converted into paths when drawing.

Returns

An Avalonia. Controls. Canvas containing the rendered graphics objects.

Definition at line 1921 of file AvaloniaContext.cs.

6.1.3.3 PaintToCanvas() [3/4]

Render a Page to an Avalonia. Controls. Canvas.

Parameters

page	The Page to render.
taggedActions	A Dictionary <string, delegate=""> containing the Actions that will be performed on items with the corresponding tag. The delegates should accept one parameter of type TextBlock or Path (depending on the tagged item).</string,>
removeTaggedActionsAfterExecution	Whether the Actions should be removed from <i>taggedActions</i> after their execution. Set to false if the same Action should be performed on multiple items with the same tag.
textOption	Defines whether text items should be converted into paths when drawing.

Returns

An Avalonia. Controls. Canvas containing the rendered graphics objects.

Definition at line 1968 of file AvaloniaContext.cs.

6.1.3.4 PaintToCanvas() [4/4]

Render a Page to an Avalonia.Controls.Canvas.

Parameters

page	The Page to render.
textOption	Defines whether text items should be converted into paths when drawing.

Returns

An Avalonia. Controls. Canvas containing the rendered graphics objects.

Definition at line 1906 of file AvaloniaContext.cs.

The documentation for this class was generated from the following file:

· VectSharp.Canvas/AvaloniaContext.cs

6.2 VectSharp.TrueTypeFile.Bearings Struct Reference

Represents the left- and right-side bearings of a glyph.

Public Attributes

int LeftSideBearing

The left-side bearing of the glyph.

· int RightSideBearing

The right-side bearing of the glyph.

6.2.1 Detailed Description

Represents the left- and right-side bearings of a glyph.

Definition at line 2115 of file TrueType.cs.

6.2.2 Member Data Documentation

6.2.2.1 LeftSideBearing

int VectSharp.TrueTypeFile.Bearings.LeftSideBearing

The left-side bearing of the glyph.

Definition at line 2120 of file TrueType.cs.

6.2.2.2 RightSideBearing

 $\verb|int VectSharp.TrueTypeFile.Bearings.RightSideBearing|\\$

The right-side bearing of the glyph.

Definition at line 2125 of file TrueType.cs.

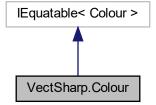
The documentation for this struct was generated from the following file:

VectSharp/TrueType.cs

6.3 VectSharp.Colour Struct Reference

Represents an RGB colour.

Inheritance diagram for VectSharp.Colour:



Public Member Functions

- · override bool Equals (object obj)
- bool Equals (Colour col)
- override int GetHashCode ()
- string ToCSSString (bool includeAlpha)

Convert the Colour object into a hex string that is constituted by a "#" followed by two-digit hexadecimal representations of the red, green and blue components of the colour (in the range 0x00 - 0xFF). Optionally also includes opacity (alpha channel) data.

Colour WithAlpha (double alpha)

Create a new Colour with the same RGB components as the current Colour, but with the specified alpha.

Colour WithAlpha (byte alpha)

Create a new Colour with the same RGB components as the current Colour, but with the specified alpha.

Static Public Member Functions

static Colour FromRgb (double r, double g, double b)

Create a new colour from RGB (red, green and blue) values.

static Colour FromRgb (byte r, byte g, byte b)

Create a new colour from RGB (red, green and blue) values.

static Colour FromRgb (int r, int g, int b)

Create a new colour from RGB (red, green and blue) values.

• static Colour FromRgba (double r, double g, double b, double a)

Create a new colour from RGBA (red, green, blue and alpha) values.

static Colour FromRgba (byte r, byte g, byte b, byte a)

Create a new colour from RGBA (red, green, blue and alpha) values.

• static Colour FromRgba (byte r, byte g, byte b, double a)

Create a new colour from RGBA (red, green, blue and alpha) values.

• static Colour FromRgba (int r, int g, int b, int a)

Create a new colour from RGBA (red, green, blue and alpha) values.

static Colour FromRgba (int r, int g, int b, double a)

Create a new colour from RGBA (red, green, blue and alpha) values.

• static Colour FromRgba ((int r, int g, int b, double a) colour)

Create a new colour from RGBA (red, green, blue and alpha) values.

- static bool operator== (Colour col1, Colour col2)
- static bool operator!= (Colour col1, Colour col2)
- static ? Colour FromCSSString (string cssString)

Convert a CSS colour string into a Colour object.

static Colour WithAlpha (Colour original, double alpha)

Create a new Colour with the same RGB components as the original Colour, but with the specified alpha.

static Colour WithAlpha (Colour original, byte alpha)

 $\textit{Create a new Colour with the same RGB components as the original \textit{Colour}, but \textit{ with the specified alpha}}.$

Public Attributes

• double R

Red component of the colour. Range: [0, 1].

• double G

Green component of the colour. Range: [0, 1].

double B

Blue component of the colour. Range: [0, 1].

· double A

Alpha component of the colour. Range: [0, 1].

6.3.1 Detailed Description

Represents an RGB colour.

Definition at line 164 of file Graphics.cs.

6.3.2 Member Function Documentation

6.3.2.1 FromCSSString()

```
static ? Colour VectSharp.Colour.FromCSSString ( string \ cssString \ ) \quad [static]
```

Convert a CSS colour string into a Colour object.

Parameters

cssString	The CSS colour string. In addition to 148 standard colour names (case-insensitive), #RGB,
	#RGBA, #RRGGBB and #RRGGBBAA hex strings and rgb(r, g, b) and rgba(r, g, b, a) functional
	colour notations are supported.

Returns

Definition at line 364 of file Graphics.cs.

6.3.2.2 FromRgb() [1/3]

Create a new colour from RGB (red, green and blue) values.

Parameters

r	The red component of the colour. Range: [0, 255].
g	The green component of the colour. Range: [0, 255].
b	The blue component of the colour. Range: [0, 255].

Returns

A Colour struct with the specified components and an alpha component of 1.

Definition at line 213 of file Graphics.cs.

6.3.2.3 FromRgb() [2/3]

```
static Colour VectSharp.Colour.FromRgb (  \mbox{double } r, \\ \mbox{double } g, \\ \mbox{double } b \;) \; \mbox{[static]}
```

Create a new colour from RGB (red, green and blue) values.

Parameters

r	•	The red component of the colour. Range: [0, 1].
g	7	The green component of the colour. Range: [0, 1].
Ł	,	The blue component of the colour. Range: [0, 1].

Returns

A Colour struct with the specified components and an alpha component of 1.

Definition at line 201 of file Graphics.cs.

6.3.2.4 FromRgb() [3/3]

Create a new colour from RGB (red, green and blue) values.

Parameters

r	The red component of the colour. Range: [0, 255].
g	The green component of the colour. Range: [0, 255].
b	The blue component of the colour, Range: [0, 255].

Returns

A Colour struct with the specified components and an alpha component of 1.

Definition at line 225 of file Graphics.cs.

6.3.2.5 FromRgba() [1/6]

Create a new colour from RGBA (red, green, blue and alpha) values.

Parameters

colour	A ValueTuple <int32, double="" int32,=""> containing component information for the colour. For r, g,</int32,>	Ī
	and b, range: [0, 255]; for a, range: [0, 1].	

Returns

A Colour struct with the specified components.

Definition at line 299 of file Graphics.cs.

6.3.2.6 FromRgba() [2/6]

Create a new colour from RGBA (red, green, blue and alpha) values.

Parameters

r	The red component of the colour. Range: [0, 255].
g	The green component of the colour. Range: [0, 255].
b	The blue component of the colour. Range: [0, 255].
а	The alpha component of the colour. Range: [0, 255].

Returns

A ColourColour struct with the specified components.

Definition at line 251 of file Graphics.cs.

6.3.2.7 FromRgba() [3/6]

Create a new colour from RGBA (red, green, blue and alpha) values.

Parameters

r	The red component of the colour. Range: [0, 255].
g	The green component of the colour. Range: [0, 255].
b	The blue component of the colour. Range: [0, 255].
а	The alpha component of the colour. Range: [0, 1].

Returns

A Colour struct with the specified components.

Definition at line 264 of file Graphics.cs.

6.3.2.8 FromRgba() [4/6]

```
static Colour VectSharp.Colour.FromRgba ( double r, double g, double b, double a) [static]
```

Create a new colour from RGBA (red, green, blue and alpha) values.

Parameters

r	The red component of the colour. Range: [0, 1].
g	The green component of the colour. Range: [0, 1].
b	The blue component of the colour. Range: [0, 1].
а	The alpha component of the colour. Range: [0, 1].

Returns

A Colour struct with the specified components.

Definition at line 238 of file Graphics.cs.

6.3.2.9 FromRgba() [5/6]

Create a new colour from RGBA (red, green, blue and alpha) values.

Parameters

r	The red component of the colour. Range: [0, 255].
g	The green component of the colour. Range: [0, 255].
b	The blue component of the colour. Range: [0, 255].
а	The alpha component of the colour. Range: [0, 1].

Returns

A Colour struct with the specified components.

Definition at line 289 of file Graphics.cs.

6.3.2.10 FromRgba() [6/6]

```
static Colour VectSharp.Colour.FromRgba (
    int r,
    int g,
    int b,
    int a) [static]
```

Create a new colour from RGBA (red, green, blue and alpha) values.

Parameters

r	The red component of the colour. Range: [0, 255].
g	The green component of the colour. Range: [0, 255].
b	The blue component of the colour. Range: [0, 255].
а	The alpha component of the colour. Range: [0, 255].

Returns

A Colour struct with the specified components.

Definition at line 276 of file Graphics.cs.

6.3.2.11 ToCSSString()

```
string VectSharp.Colour.ToCSSString ( bool\ include Alpha\ )
```

Convert the Colour object into a hex string that is constituted by a "#" followed by two-digit hexadecimal representations of the red, green and blue components of the colour (in the range 0x00 - 0xFF). Optionally also includes opacity (alpha channel) data.

Parameters

includeAlpha	Whether two additional hex digits representing the colour's opacity (alpha channel) should be
	included in the string.

Returns

A hex colour string.

Definition at line 347 of file Graphics.cs.

6.3.2.12 WithAlpha() [1/4]

Create a new Colour with the same RGB components as the current Colour, but with the specified alpha.

Parameters

alpha The alpha component of the new Colour.

Returns

A Colour struct with the same RGB components as the current Colour and the specified alpha.

Definition at line 500 of file Graphics.cs.

6.3.2.13 WithAlpha() [2/4]

Create a new Colour with the same RGB components as the original Colour, but with the specified alpha.

Parameters

original	The original Colour from which the RGB components will be taken.
alpha	The alpha component of the new Colour.

Returns

A Colour struct with the same RGB components as the original Colour and the specified alpha.

Definition at line 480 of file Graphics.cs.

6.3.2.14 WithAlpha() [3/4]

Create a new Colour with the same RGB components as the original Colour, but with the specified alpha.

Parameters

original	The original Colour from which the RGB components will be taken.
alpha	The alpha component of the new Colour.

Returns

A Colour struct with the same RGB components as the original Colour and the specified alpha.

Definition at line 469 of file Graphics.cs.

6.3.2.15 WithAlpha() [4/4]

Create a new Colour with the same RGB components as the current Colour, but with the specified alpha .

Parameters

alpha	The alpha component of the new Colour.
-------	--

Returns

A Colour struct with the same RGB components as the current Colour and the specified alpha.

Definition at line 490 of file Graphics.cs.

6.3.3 Member Data Documentation

6.3.3.1 A

```
double VectSharp.Colour.A
```

Alpha component of the colour. Range: [0, 1].

Definition at line 184 of file Graphics.cs.

6.3.3.2 B

```
double VectSharp.Colour.B
```

Blue component of the colour. Range: [0, 1].

Definition at line 179 of file Graphics.cs.

6.3.3.3 G

```
double VectSharp.Colour.G
```

Green component of the colour. Range: [0, 1].

Definition at line 174 of file Graphics.cs.

6.3.3.4 R

```
double VectSharp.Colour.R
```

Red component of the colour. Range: [0, 1].

Definition at line 169 of file Graphics.cs.

The documentation for this struct was generated from the following files:

- · VectSharp/Graphics.cs
- VectSharp/StandardColours.cs

6.4 VectSharp.Colours Class Reference

Standard colours.

Static Public Attributes

```
• static Colour Black = Colour.FromRgb(0, 0, 0)

Black #000000
```

• static Colour Navy = Colour.FromRgb(0, 0, 128)

Navy #000080

• static Colour DarkBlue = Colour.FromRgb(0, 0, 139)

DarkBlue #00008B

static Colour MediumBlue = Colour.FromRgb(0, 0, 205)

MediumBlue #0000CD

• static Colour Blue = Colour.FromRgb(0, 0, 255)

Blue #0000FF

static Colour DarkGreen = Colour.FromRgb(0, 100, 0)

DarkGreen #006400

static Colour Green = Colour.FromRgb(0, 128, 0)

Green #008000

• static Colour Teal = Colour.FromRgb(0, 128, 128)

Teal #008080

• static Colour DarkCyan = Colour.FromRgb(0, 139, 139)

DarkCyan #008B8B

• static Colour DeepSkyBlue = Colour.FromRgb(0, 191, 255)

DeepSkyBlue #00BFFF

static Colour DarkTurquoise = Colour.FromRgb(0, 206, 209)

DarkTurquoise #00CED1

• static Colour MediumSpringGreen = Colour.FromRgb(0, 250, 154)

MediumSpringGreen #00FA9A

• static Colour Lime = Colour.FromRgb(0, 255, 0)

Lime #00FF00

• static Colour SpringGreen = Colour.FromRgb(0, 255, 127)

SpringGreen #00FF7F

static Colour Aqua = Colour.FromRgb(0, 255, 255)

Aqua #00FFFF

static Colour Cyan = Colour.FromRgb(0, 255, 255)

Cyan #00FFFF

static Colour MidnightBlue = Colour.FromRgb(25, 25, 112)

MidnightBlue #191970

static Colour DodgerBlue = Colour.FromRgb(30, 144, 255)

DodgerBlue #1E90FF

static Colour LightSeaGreen = Colour.FromRgb(32, 178, 170)

LightSeaGreen #20B2AA

• static Colour ForestGreen = Colour.FromRgb(34, 139, 34)

ForestGreen #228B22

• static Colour SeaGreen = Colour.FromRgb(46, 139, 87)

SeaGreen #2E8B57

static Colour DarkSlateGray = Colour.FromRgb(47, 79, 79)

```
DarkSlateGray #2F4F4F
• static Colour DarkSlateGrey = Colour.FromRgb(47, 79, 79)
     DarkSlateGrey #2F4F4F

    static Colour LimeGreen = Colour.FromRgb(50, 205, 50)

     LimeGreen #32CD32

    static Colour MediumSeaGreen = Colour.FromRgb(60, 179, 113)

     MediumSeaGreen #3CB371

    static Colour Turquoise = Colour.FromRgb(64, 224, 208)

     Turquoise #40E0D0
• static Colour RoyalBlue = Colour.FromRgb(65, 105, 225)
     RoyalBlue #4169E1

    static Colour SteelBlue = Colour.FromRgb(70, 130, 180)

     SteelBlue #4682B4
• static Colour DarkSlateBlue = Colour.FromRgb(72, 61, 139)
     DarkSlateBlue #483D8B

    static Colour Medium Turquoise = Colour. From Rgb (72, 209, 204)

     MediumTurquoise #48D1CC
• static Colour Indigo = Colour.FromRgb(75, 0, 130)
     Indiao #4B0082

    static Colour DarkOliveGreen = Colour.FromRgb(85, 107, 47)

     DarkOliveGreen #556B2F

    static Colour CadetBlue = Colour.FromRgb(95, 158, 160)

     CadetBlue #5F9EA0

    static Colour CornflowerBlue = Colour.FromRgb(100, 149, 237)

     CornflowerBlue #6495ED

    static Colour RebeccaPurple = Colour.FromRgb(102, 51, 153)

     RebeccaPurple #663399

    static Colour MediumAquaMarine = Colour.FromRgb(102, 205, 170)

     MediumAquaMarine #66CDAA

    static Colour DimGray = Colour.FromRgb(105, 105, 105)

     DimGrav #696969

    static Colour DimGrey = Colour.FromRgb(105, 105, 105)

     DimGrey #696969

    static Colour SlateBlue = Colour.FromRgb(106, 90, 205)

     SlateBlue #6A5ACD

    static Colour OliveDrab = Colour.FromRgb(107, 142, 35)

     OliveDrab #6B8E23

    static Colour SlateGray = Colour.FromRgb(112, 128, 144)

     SlateGray #708090

    static Colour SlateGrey = Colour.FromRgb(112, 128, 144)

     SlateGrey #708090

    static Colour LightSlateGray = Colour.FromRgb(119, 136, 153)

     LightSlateGray #778899

    static Colour LightSlateGrey = Colour.FromRgb(119, 136, 153)
```

LightSlateGrev #778899 static Colour MediumSlateBlue = Colour.FromRgb(123, 104, 238) MediumSlateBlue #7B68EE static Colour LawnGreen = Colour.FromRgb(124, 252, 0) LawnGreen #7CFC00 static Colour Chartreuse = Colour.FromRgb(127, 255, 0) Chartreuse #7FFF00

```
Aquamarine #7FFFD4
• static Colour Maroon = Colour.FromRgb(128, 0, 0)
     Maroon #800000

    static Colour Purple = Colour.FromRgb(128, 0, 128)

     Purple #800080
• static Colour Olive = Colour.FromRgb(128, 128, 0)
     Olive #808000

    static Colour Gray = Colour.FromRgb(128, 128, 128)

     Gray #808080

    static Colour Grey = Colour.FromRgb(128, 128, 128)

     Grev #808080

    static Colour SkyBlue = Colour.FromRgb(135, 206, 235)

     SkyBlue #87CEEB

    static Colour LightSkyBlue = Colour.FromRgb(135, 206, 250)

     LightSkyBlue #87CEFA

    static Colour BlueViolet = Colour.FromRgb(138, 43, 226)

     BlueViolet #8A2BE2

    static Colour DarkRed = Colour.FromRgb(139, 0, 0)

     DarkRed #8B0000

    static Colour DarkMagenta = Colour.FromRgb(139, 0, 139)

     DarkMagenta #8B008B

    static Colour SaddleBrown = Colour.FromRgb(139, 69, 19)

     SaddleBrown #8B4513
• static Colour DarkSeaGreen = Colour.FromRgb(143, 188, 143)
     DarkSeaGreen #8FBC8F

    static Colour LightGreen = Colour.FromRgb(144, 238, 144)

     LightGreen #90EE90
• static Colour MediumPurple = Colour.FromRgb(147, 112, 219)
     MediumPurple #9370DB

    static Colour DarkViolet = Colour.FromRgb(148, 0, 211)

     DarkViolet #9400D3
• static Colour PaleGreen = Colour.FromRgb(152, 251, 152)
     PaleGreen #98FB98

    static Colour DarkOrchid = Colour.FromRgb(153, 50, 204)

     DarkOrchid #9932CC

    static Colour YellowGreen = Colour.FromRgb(154, 205, 50)

     YellowGreen #9ACD32
• static Colour Sienna = Colour.FromRgb(160, 82, 45)
     Sienna #A0522D

    static Colour Brown = Colour.FromRgb(165, 42, 42)

     Brown #A52A2A
• static Colour DarkGray = Colour.FromRgb(169, 169, 169)
     DarkGray #A9A9A9

    static Colour DarkGrey = Colour.FromRgb(169, 169, 169)

     DarkGrey #A9A9A9

    static Colour LightBlue = Colour.FromRgb(173, 216, 230)

     LightBlue #ADD8E6

    static Colour GreenYellow = Colour.FromRgb(173, 255, 47)

     GreenYellow #ADFF2F

    static Colour PaleTurquoise = Colour.FromRgb(175, 238, 238)
```

static Colour Aquamarine = Colour.FromRgb(127, 255, 212)

```
PaleTurquoise #AFEEEE
```

• static Colour LightSteelBlue = Colour.FromRgb(176, 196, 222)

LightSteelBlue #B0C4DE

• static Colour PowderBlue = Colour.FromRgb(176, 224, 230)

PowderBlue #B0E0E6

static Colour FireBrick = Colour.FromRgb(178, 34, 34)

FireBrick #B22222

static Colour DarkGoldenRod = Colour.FromRgb(184, 134, 11)

DarkGoldenRod #B8860B

static Colour MediumOrchid = Colour.FromRgb(186, 85, 211)

MediumOrchid #BA55D3

static Colour RosyBrown = Colour.FromRgb(188, 143, 143)

RosyBrown #BC8F8F

• static Colour DarkKhaki = Colour.FromRgb(189, 183, 107)

DarkKhaki #BDB76B

static Colour Silver = Colour.FromRgb(192, 192, 192)

Silver #C0C0C0

• static Colour MediumVioletRed = Colour.FromRgb(199, 21, 133)

MediumVioletRed #C71585

static Colour IndianRed = Colour.FromRgb(205, 92, 92)

IndianRed #CD5C5C

static Colour Peru = Colour.FromRgb(205, 133, 63)

Peru #CD853F

static Colour Chocolate = Colour.FromRgb(210, 105, 30)

Chocolate #D2691E

• static Colour Tan = Colour.FromRgb(210, 180, 140)

Tan #D2B48C

static Colour LightGray = Colour.FromRgb(211, 211, 211)

LightGray #D3D3D3

static Colour LightGrey = Colour.FromRgb(211, 211, 211)

LightGrey #D3D3D3

• static Colour Thistle = Colour.FromRgb(216, 191, 216)

Thistle #D8BFD8

static Colour Orchid = Colour.FromRgb(218, 112, 214)

Orchid #DA70D6

• static Colour GoldenRod = Colour.FromRgb(218, 165, 32)

GoldenRod #DAA520

• static Colour PaleVioletRed = Colour.FromRgb(219, 112, 147)

PaleVioletRed #DB7093

static Colour Crimson = Colour.FromRgb(220, 20, 60)

Crimson #DC143C

• static Colour Gainsboro = Colour.FromRgb(220, 220, 220)

Gainsboro #DCDCDC

static Colour Plum = Colour.FromRgb(221, 160, 221)

Plum #DDA0DD

• static Colour BurlyWood = Colour.FromRgb(222, 184, 135)

BurlyWood #DEB887

• static Colour LightCyan = Colour.FromRgb(224, 255, 255)

LightCyan #E0FFFF

static Colour Lavender = Colour.FromRgb(230, 230, 250)

Lavender #E6E6FA

```
DarkSalmon #E9967A

    static Colour Violet = Colour.FromRgb(238, 130, 238)

     Violet #EE82EE

    static Colour PaleGoldenRod = Colour.FromRgb(238, 232, 170)

     PaleGoldenRod #EEE8AA

    static Colour LightCoral = Colour.FromRgb(240, 128, 128)

     LightCoral #F08080

    static Colour Khaki = Colour.FromRgb(240, 230, 140)

     Khaki #F0F68C

    static Colour AliceBlue = Colour.FromRgb(240, 248, 255)

     AliceBlue #F0F8FF

    static Colour HoneyDew = Colour.FromRgb(240, 255, 240)

     HoneyDew #F0FFF0

    static Colour Azure = Colour.FromRgb(240, 255, 255)

     Azure #F0FFFF

    static Colour SandyBrown = Colour.FromRgb(244, 164, 96)

     SandyBrown #F4A460
• static Colour Wheat = Colour.FromRgb(245, 222, 179)
     Wheat #F5DEB3

    static Colour Beige = Colour.FromRgb(245, 245, 220)

     Beige #F5F5DC

    static Colour WhiteSmoke = Colour.FromRgb(245, 245, 245)

     WhiteSmoke #F5F5F5
• static Colour MintCream = Colour.FromRgb(245, 255, 250)
     MintCream #F5FFFA

    static Colour GhostWhite = Colour.FromRgb(248, 248, 255)

     GhostWhite #F8F8FF
• static Colour Salmon = Colour.FromRgb(250, 128, 114)
     Salmon #FA8072
• static Colour AntiqueWhite = Colour.FromRgb(250, 235, 215)
     AntiqueWhite #FAEBD7
• static Colour Linen = Colour.FromRgb(250, 240, 230)
     Linen #FAF0E6

    static Colour LightGoldenRodYellow = Colour.FromRgb(250, 250, 210)

     LightGoldenRodYellow #FAFAD2

    static Colour OldLace = Colour.FromRgb(253, 245, 230)

     OldLace #FDF5E6

    static Colour Red = Colour.FromRgb(255, 0, 0)

     Red #FF0000

    static Colour Fuchsia = Colour.FromRgb(255, 0, 255)

     Fuchsia #FF00FF

    static Colour Magenta = Colour.FromRgb(255, 0, 255)

     Magenta #FF00FF

    static Colour DeepPink = Colour.FromRgb(255, 20, 147)

     DeepPink #FF1493

    static Colour OrangeRed = Colour.FromRgb(255, 69, 0)

     OrangeRed #FF4500

    static Colour Tomato = Colour.FromRgb(255, 99, 71)

     Tomato #FF6347

    static Colour HotPink = Colour.FromRgb(255, 105, 180)
```

static Colour DarkSalmon = Colour.FromRgb(233, 150, 122)

```
HotPink #FF69B4
```

static Colour Coral = Colour.FromRgb(255, 127, 80)

Coral #FF7F50

• static Colour DarkOrange = Colour.FromRgb(255, 140, 0)

DarkOrange #FF8C00

• static Colour LightSalmon = Colour.FromRgb(255, 160, 122)

LightSalmon #FFA07A

• static Colour Orange = Colour.FromRgb(255, 165, 0)

Orange #FFA500

static Colour LightPink = Colour.FromRgb(255, 182, 193)

LightPink #FFB6C1

static Colour Pink = Colour.FromRgb(255, 192, 203)

Pink #FFC0CB

static Colour Gold = Colour.FromRgb(255, 215, 0)

Gold #FFD700

static Colour PeachPuff = Colour.FromRgb(255, 218, 185)

PeachPuff #FFDAB9

• static Colour NavajoWhite = Colour.FromRgb(255, 222, 173)

NavajoWhite #FFDEAD

static Colour Moccasin = Colour.FromRgb(255, 228, 181)

Moccasin #FFE4B5

• static Colour Bisque = Colour.FromRgb(255, 228, 196)

Bisque #FFE4C4

static Colour MistyRose = Colour.FromRgb(255, 228, 225)

MistyRose #FFE4E1

static Colour BlanchedAlmond = Colour.FromRgb(255, 235, 205)

BlanchedAlmond #FFEBCD

• static Colour PapayaWhip = Colour.FromRgb(255, 239, 213)

PapayaWhip #FFEFD5

static Colour LavenderBlush = Colour.FromRgb(255, 240, 245)

LavenderBlush #FFF0F5

static Colour SeaShell = Colour.FromRgb(255, 245, 238)

SeaShell #FFF5EE

• static Colour Cornsilk = Colour.FromRgb(255, 248, 220)

Cornsilk #FFF8DC

• static Colour LemonChiffon = Colour.FromRgb(255, 250, 205)

LemonChiffon #FFFACD

static Colour FloralWhite = Colour.FromRgb(255, 250, 240)

FloralWhite #FFFAF0

static Colour Snow = Colour.FromRgb(255, 250, 250)

Snow #FFFAFA

• static Colour Yellow = Colour.FromRgb(255, 255, 0)

Yellow #FFFF00

• static Colour LightYellow = Colour.FromRgb(255, 255, 224)

LightYellow #FFFFE0

• static Colour Ivory = Colour.FromRgb(255, 255, 240)

Ivory #FFFFF0

static Colour White = Colour.FromRgb(255, 255, 255)

White #FFFFF

6.4.1 Detailed Description

Standard colours.

Definition at line 182 of file StandardColours.cs.

6.4.2 Member Data Documentation

6.4.2.1 AliceBlue

```
Colour VectSharp.Colours.AliceBlue = Colour.FromRgb(240, 248, 255) [static]
```

AliceBlue #F0F8FF

Definition at line 599 of file StandardColours.cs.

6.4.2.2 AntiqueWhite

```
Colour VectSharp.Colours.AntiqueWhite = Colour.FromRgb(250, 235, 215) [static]
```

AntiqueWhite #FAEBD7

Definition at line 639 of file StandardColours.cs.

6.4.2.3 Aqua

```
Colour VectSharp.Colours.Aqua = Colour.FromRgb(0, 255, 255) [static]
```

Aqua #00FFFF

Definition at line 243 of file StandardColours.cs.

6.4.2.4 Aquamarine

```
Colour VectSharp.Colours.Aquamarine = Colour.FromRgb(127, 255, 212) [static]
```

Aquamarine #7FFD4

Definition at line 375 of file StandardColours.cs.

6.4.2.5 Azure

```
Colour VectSharp.Colours.Azure = Colour.FromRgb(240, 255, 255) [static]
```

Azure #F0FFFF

Definition at line 607 of file StandardColours.cs.

6.4.2.6 Beige

```
Colour VectSharp.Colours.Beige = Colour.FromRgb(245, 245, 220) [static]
```

Beige #F5F5DC

Definition at line 619 of file StandardColours.cs.

6.4.2.7 Bisque

```
Colour VectSharp.Colours.Bisque = Colour.FromRgb(255, 228, 196) [static]
```

Bisque #FFE4C4

Definition at line 723 of file StandardColours.cs.

6.4.2.8 Black

```
Colour VectSharp.Colours.Black = Colour.FromRgb(0, 0, 0) [static]
```

Black #000000

Definition at line 187 of file StandardColours.cs.

6.4.2.9 BlanchedAlmond

```
Colour VectSharp.Colours.BlanchedAlmond = Colour.FromRgb(255, 235, 205) [static]
```

BlanchedAlmond #FFEBCD

Definition at line 731 of file StandardColours.cs.

6.4.2.10 Blue

```
Colour VectSharp.Colours.Blue = Colour.FromRgb(0, 0, 255) [static]
```

Blue #0000FF

Definition at line 203 of file StandardColours.cs.

6.4.2.11 BlueViolet

```
Colour VectSharp.Colours.BlueViolet = Colour.FromRgb(138, 43, 226) [static]
```

BlueViolet #8A2BE2

Definition at line 407 of file StandardColours.cs.

6.4.2.12 Brown

```
Colour VectSharp.Colours.Brown = Colour.FromRgb(165, 42, 42) [static]
```

Brown #A52A2A

Definition at line 455 of file StandardColours.cs.

6.4.2.13 BurlyWood

```
Colour VectSharp.Colours.BurlyWood = Colour.FromRgb(222, 184, 135) [static]
```

BurlyWood #DEB887

Definition at line 567 of file StandardColours.cs.

6.4.2.14 CadetBlue

```
Colour VectSharp.Colours.CadetBlue = Colour.FromRgb(95, 158, 160) [static]
```

CadetBlue #5F9EA0

Definition at line 315 of file StandardColours.cs.

6.4.2.15 Chartreuse

```
Colour VectSharp.Colours.Chartreuse = Colour.FromRgb(127, 255, 0) [static]
```

Chartreuse #7FFF00

Definition at line 371 of file StandardColours.cs.

6.4.2.16 Chocolate

```
Colour VectSharp.Colours.Chocolate = Colour.FromRgb(210, 105, 30) [static]
```

Chocolate #D2691E

Definition at line 523 of file StandardColours.cs.

6.4.2.17 Coral

```
Colour VectSharp.Colours.Coral = Colour.FromRgb(255, 127, 80) [static]
```

Coral #FF7F50

Definition at line 683 of file StandardColours.cs.

6.4.2.18 CornflowerBlue

```
Colour VectSharp.Colours.CornflowerBlue = Colour.FromRgb(100, 149, 237) [static]
```

CornflowerBlue #6495ED

Definition at line 319 of file StandardColours.cs.

6.4.2.19 Cornsilk

```
Colour VectSharp.Colours.Cornsilk = Colour.FromRgb(255, 248, 220) [static]
```

Cornsilk #FFF8DC

Definition at line 747 of file StandardColours.cs.

6.4.2.20 Crimson

```
Colour VectSharp.Colours.Crimson = Colour.FromRgb(220, 20, 60) [static]
```

Crimson #DC143C

Definition at line 555 of file StandardColours.cs.

6.4.2.21 Cyan

```
Colour VectSharp.Colours.Cyan = Colour.FromRgb(0, 255, 255) [static]
```

Cyan #00FFFF

Definition at line 247 of file StandardColours.cs.

6.4.2.22 DarkBlue

```
Colour VectSharp.Colours.DarkBlue = Colour.FromRgb(0, 0, 139) [static]
```

DarkBlue #00008B

Definition at line 195 of file StandardColours.cs.

6.4.2.23 DarkCyan

```
Colour VectSharp.Colours.DarkCyan = Colour.FromRgb(0, 139, 139) [static]
```

DarkCyan #008B8B

Definition at line 219 of file StandardColours.cs.

6.4.2.24 DarkGoldenRod

```
Colour VectSharp.Colours.DarkGoldenRod = Colour.FromRgb(184, 134, 11) [static]
```

DarkGoldenRod #B8860B

Definition at line 491 of file StandardColours.cs.

6.4.2.25 DarkGray

```
Colour VectSharp.Colours.DarkGray = Colour.FromRgb(169, 169, 169) [static]
```

DarkGray #A9A9A9

Definition at line 459 of file StandardColours.cs.

6.4.2.26 DarkGreen

```
Colour VectSharp.Colours.DarkGreen = Colour.FromRgb(0, 100, 0) [static]
```

DarkGreen #006400

Definition at line 207 of file StandardColours.cs.

6.4.2.27 DarkGrey

```
Colour VectSharp.Colours.DarkGrey = Colour.FromRgb(169, 169, 169) [static]
```

DarkGrey #A9A9A9

Definition at line 463 of file StandardColours.cs.

6.4.2.28 DarkKhaki

```
Colour VectSharp.Colours.DarkKhaki = Colour.FromRgb(189, 183, 107) [static]
```

DarkKhaki #BDB76B

Definition at line 503 of file StandardColours.cs.

6.4.2.29 DarkMagenta

```
Colour VectSharp.Colours.DarkMagenta = Colour.FromRgb(139, 0, 139) [static]
```

DarkMagenta #8B008B

Definition at line 415 of file StandardColours.cs.

6.4.2.30 DarkOliveGreen

```
Colour VectSharp.Colours.DarkOliveGreen = Colour.FromRgb(85, 107, 47) [static]
```

DarkOliveGreen #556B2F

Definition at line 311 of file StandardColours.cs.

6.4.2.31 DarkOrange

```
Colour VectSharp.Colours.DarkOrange = Colour.FromRgb(255, 140, 0) [static]
```

DarkOrange #FF8C00

Definition at line 687 of file StandardColours.cs.

6.4.2.32 DarkOrchid

```
Colour VectSharp.Colours.DarkOrchid = Colour.FromRgb(153, 50, 204) [static]
```

DarkOrchid #9932CC

Definition at line 443 of file StandardColours.cs.

6.4.2.33 DarkRed

```
Colour VectSharp.Colours.DarkRed = Colour.FromRgb(139, 0, 0) [static]
```

DarkRed #8B0000

Definition at line 411 of file StandardColours.cs.

6.4.2.34 DarkSalmon

```
Colour VectSharp.Colours.DarkSalmon = Colour.FromRgb(233, 150, 122) [static]
```

DarkSalmon #E9967A

Definition at line 579 of file StandardColours.cs.

6.4.2.35 DarkSeaGreen

```
Colour VectSharp.Colours.DarkSeaGreen = Colour.FromRgb(143, 188, 143) [static]
```

DarkSeaGreen #8FBC8F

Definition at line 423 of file StandardColours.cs.

6.4.2.36 DarkSlateBlue

```
Colour VectSharp.Colours.DarkSlateBlue = Colour.FromRgb(72, 61, 139) [static]
```

DarkSlateBlue #483D8B

Definition at line 299 of file StandardColours.cs.

6.4.2.37 DarkSlateGray

```
Colour VectSharp.Colours.DarkSlateGray = Colour.FromRgb(47, 79, 79) [static]
```

DarkSlateGray #2F4F4F

Definition at line 271 of file StandardColours.cs.

6.4.2.38 DarkSlateGrey

```
Colour VectSharp.Colours.DarkSlateGrey = Colour.FromRgb(47, 79, 79) [static]
```

DarkSlateGrey #2F4F4F

Definition at line 275 of file StandardColours.cs.

6.4.2.39 DarkTurquoise

```
Colour VectSharp.Colours.DarkTurquoise = Colour.FromRgb(0, 206, 209) [static]
```

DarkTurquoise #00CED1

Definition at line 227 of file StandardColours.cs.

6.4.2.40 DarkViolet

```
Colour VectSharp.Colours.DarkViolet = Colour.FromRgb(148, 0, 211) [static]
```

DarkViolet #9400D3

Definition at line 435 of file StandardColours.cs.

6.4.2.41 DeepPink

```
Colour VectSharp.Colours.DeepPink = Colour.FromRgb(255, 20, 147) [static]
```

DeepPink #FF1493

Definition at line 667 of file StandardColours.cs.

6.4.2.42 DeepSkyBlue

```
Colour VectSharp.Colours.DeepSkyBlue = Colour.FromRgb(0, 191, 255) [static]
```

DeepSkyBlue #00BFFF

Definition at line 223 of file StandardColours.cs.

6.4.2.43 DimGray

```
Colour VectSharp.Colours.DimGray = Colour.FromRgb(105, 105, 105) [static]
```

DimGray #696969

Definition at line 331 of file StandardColours.cs.

6.4.2.44 DimGrey

```
Colour VectSharp.Colours.DimGrey = Colour.FromRgb(105, 105, 105) [static]
```

DimGrey #696969

Definition at line 335 of file StandardColours.cs.

6.4.2.45 DodgerBlue

```
Colour VectSharp.Colours.DodgerBlue = Colour.FromRgb(30, 144, 255) [static]
```

DodgerBlue #1E90FF

Definition at line 255 of file StandardColours.cs.

6.4.2.46 FireBrick

```
Colour VectSharp.Colours.FireBrick = Colour.FromRgb(178, 34, 34) [static]
```

FireBrick #B22222

Definition at line 487 of file StandardColours.cs.

6.4.2.47 FloralWhite

```
Colour VectSharp.Colours.FloralWhite = Colour.FromRgb(255, 250, 240) [static]
```

FloralWhite #FFFAF0

Definition at line 755 of file StandardColours.cs.

6.4.2.48 ForestGreen

```
Colour VectSharp.Colours.ForestGreen = Colour.FromRgb(34, 139, 34) [static]
```

ForestGreen #228B22

Definition at line 263 of file StandardColours.cs.

6.4.2.49 Fuchsia

```
Colour VectSharp.Colours.Fuchsia = Colour.FromRgb(255, 0, 255) [static]
```

Fuchsia #FF00FF

Definition at line 659 of file StandardColours.cs.

6.4.2.50 Gainsboro

```
Colour VectSharp.Colours.Gainsboro = Colour.FromRgb(220, 220, 220) [static]
```

Gainsboro #DCDCDC

Definition at line 559 of file StandardColours.cs.

6.4.2.51 GhostWhite

```
Colour VectSharp.Colours.GhostWhite = Colour.FromRgb(248, 248, 255) [static]
```

GhostWhite #F8F8FF

Definition at line 631 of file StandardColours.cs.

6.4.2.52 Gold

```
Colour VectSharp.Colours.Gold = Colour.FromRgb(255, 215, 0) [static]
```

Gold #FFD700

Definition at line 707 of file StandardColours.cs.

6.4.2.53 GoldenRod

```
Colour VectSharp.Colours.GoldenRod = Colour.FromRgb(218, 165, 32) [static]
```

GoldenRod #DAA520

Definition at line 547 of file StandardColours.cs.

6.4.2.54 Gray

```
Colour VectSharp.Colours.Gray = Colour.FromRgb(128, 128, 128) [static]
```

Gray #808080

Definition at line 391 of file StandardColours.cs.

6.4.2.55 Green

```
Colour VectSharp.Colours.Green = Colour.FromRgb(0, 128, 0) [static]
```

Green #008000

Definition at line 211 of file StandardColours.cs.

6.4.2.56 GreenYellow

```
Colour VectSharp.Colours.GreenYellow = Colour.FromRgb(173, 255, 47) [static]
```

GreenYellow #ADFF2F

Definition at line 471 of file StandardColours.cs.

6.4.2.57 Grey

```
Colour VectSharp.Colours.Grey = Colour.FromRgb(128, 128, 128) [static]
```

Grey #808080

Definition at line 395 of file StandardColours.cs.

6.4.2.58 HoneyDew

```
Colour VectSharp.Colours.HoneyDew = Colour.FromRgb(240, 255, 240) [static]
```

HoneyDew #F0FFF0

Definition at line 603 of file StandardColours.cs.

6.4.2.59 HotPink

```
Colour VectSharp.Colours.HotPink = Colour.FromRgb(255, 105, 180) [static]
```

HotPink #FF69B4

Definition at line 679 of file StandardColours.cs.

6.4.2.60 IndianRed

```
Colour VectSharp.Colours.IndianRed = Colour.FromRgb(205, 92, 92) [static]
```

IndianRed #CD5C5C

Definition at line 515 of file StandardColours.cs.

6.4.2.61 Indigo

```
Colour VectSharp.Colours.Indigo = Colour.FromRgb(75, 0, 130) [static]
```

Indigo #4B0082

Definition at line 307 of file StandardColours.cs.

6.4.2.62 Ivory

```
Colour VectSharp.Colours.Ivory = Colour.FromRgb(255, 255, 240) [static]
```

Ivory #FFFFF0

Definition at line 771 of file StandardColours.cs.

6.4.2.63 Khaki

```
Colour VectSharp.Colours.Khaki = Colour.FromRgb(240, 230, 140) [static]
```

Khaki #F0E68C

Definition at line 595 of file StandardColours.cs.

6.4.2.64 Lavender

```
Colour VectSharp.Colours.Lavender = Colour.FromRgb(230, 230, 250) [static]
```

Lavender #E6E6FA

Definition at line 575 of file StandardColours.cs.

6.4.2.65 LavenderBlush

```
Colour VectSharp.Colours.LavenderBlush = Colour.FromRgb(255, 240, 245) [static]
```

LavenderBlush #FFF0F5

Definition at line 739 of file StandardColours.cs.

6.4.2.66 LawnGreen

```
Colour VectSharp.Colours.LawnGreen = Colour.FromRgb(124, 252, 0) [static]
```

LawnGreen #7CFC00

Definition at line 367 of file StandardColours.cs.

6.4.2.67 LemonChiffon

```
Colour VectSharp.Colours.LemonChiffon = Colour.FromRgb(255, 250, 205) [static]
```

LemonChiffon #FFFACD

Definition at line 751 of file StandardColours.cs.

6.4.2.68 LightBlue

```
Colour VectSharp.Colours.LightBlue = Colour.FromRgb(173, 216, 230) [static]
```

LightBlue #ADD8E6

Definition at line 467 of file StandardColours.cs.

6.4.2.69 LightCoral

```
Colour VectSharp.Colours.LightCoral = Colour.FromRgb(240, 128, 128) [static]
```

LightCoral #F08080

Definition at line 591 of file StandardColours.cs.

6.4.2.70 LightCyan

```
Colour VectSharp.Colours.LightCyan = Colour.FromRgb(224, 255, 255) [static]
```

LightCyan #E0FFFF

Definition at line 571 of file StandardColours.cs.

6.4.2.71 LightGoldenRodYellow

```
Colour VectSharp.Colours.LightGoldenRodYellow = Colour.FromRgb(250, 250, 210) [static]
```

LightGoldenRodYellow #FAFAD2

Definition at line 647 of file StandardColours.cs.

6.4.2.72 LightGray

```
Colour VectSharp.Colours.LightGray = Colour.FromRgb(211, 211, 211) [static]
```

LightGray #D3D3D3

Definition at line 531 of file StandardColours.cs.

6.4.2.73 LightGreen

```
Colour VectSharp.Colours.LightGreen = Colour.FromRgb(144, 238, 144) [static]
```

LightGreen #90EE90

Definition at line 427 of file StandardColours.cs.

6.4.2.74 LightGrey

```
Colour VectSharp.Colours.LightGrey = Colour.FromRgb(211, 211, 211) [static]
```

LightGrey #D3D3D3

Definition at line 535 of file StandardColours.cs.

6.4.2.75 LightPink

```
Colour VectSharp.Colours.LightPink = Colour.FromRgb(255, 182, 193) [static]
```

LightPink #FFB6C1

Definition at line 699 of file StandardColours.cs.

6.4.2.76 LightSalmon

```
Colour VectSharp.Colours.LightSalmon = Colour.FromRgb(255, 160, 122) [static]
```

LightSalmon #FFA07A

Definition at line 691 of file StandardColours.cs.

6.4.2.77 LightSeaGreen

```
Colour VectSharp.Colours.LightSeaGreen = Colour.FromRgb(32, 178, 170) [static]
```

LightSeaGreen #20B2AA

Definition at line 259 of file StandardColours.cs.

6.4.2.78 LightSkyBlue

```
Colour VectSharp.Colours.LightSkyBlue = Colour.FromRgb(135, 206, 250) [static]
```

LightSkyBlue #87CEFA

Definition at line 403 of file StandardColours.cs.

6.4.2.79 LightSlateGray

```
Colour VectSharp.Colours.LightSlateGray = Colour.FromRgb(119, 136, 153) [static]
```

LightSlateGray #778899

Definition at line 355 of file StandardColours.cs.

6.4.2.80 LightSlateGrey

```
Colour VectSharp.Colours.LightSlateGrey = Colour.FromRgb(119, 136, 153) [static]
```

LightSlateGrey #778899

Definition at line 359 of file StandardColours.cs.

6.4.2.81 LightSteelBlue

```
Colour VectSharp.Colours.LightSteelBlue = Colour.FromRgb(176, 196, 222) [static]
```

LightSteelBlue #B0C4DE

Definition at line 479 of file StandardColours.cs.

6.4.2.82 LightYellow

```
Colour VectSharp.Colours.LightYellow = Colour.FromRgb(255, 255, 224) [static]
```

LightYellow #FFFFE0

Definition at line 767 of file StandardColours.cs.

6.4.2.83 Lime

```
Colour VectSharp.Colours.Lime = Colour.FromRgb(0, 255, 0) [static]
```

Lime #00FF00

Definition at line 235 of file StandardColours.cs.

6.4.2.84 LimeGreen

```
Colour VectSharp.Colours.LimeGreen = Colour.FromRgb(50, 205, 50) [static]
```

LimeGreen #32CD32

Definition at line 279 of file StandardColours.cs.

6.4.2.85 Linen

```
Colour VectSharp.Colours.Linen = Colour.FromRgb(250, 240, 230) [static]
```

Linen #FAF0E6

Definition at line 643 of file StandardColours.cs.

6.4.2.86 Magenta

```
Colour VectSharp.Colours.Magenta = Colour.FromRgb(255, 0, 255) [static]
```

Magenta #FF00FF

Definition at line 663 of file StandardColours.cs.

6.4.2.87 Maroon

```
Colour VectSharp.Colours.Maroon = Colour.FromRgb(128, 0, 0) [static]
```

Maroon #800000

Definition at line 379 of file StandardColours.cs.

6.4.2.88 MediumAquaMarine

```
Colour VectSharp.Colours.MediumAquaMarine = Colour.FromRgb(102, 205, 170) [static]
```

MediumAquaMarine #66CDAA

Definition at line 327 of file StandardColours.cs.

6.4.2.89 MediumBlue

```
Colour VectSharp.Colours.MediumBlue = Colour.FromRgb(0, 0, 205) [static]
```

MediumBlue #0000CD

Definition at line 199 of file StandardColours.cs.

6.4.2.90 MediumOrchid

```
Colour VectSharp.Colours.MediumOrchid = Colour.FromRgb(186, 85, 211) [static]
```

MediumOrchid #BA55D3

Definition at line 495 of file StandardColours.cs.

6.4.2.91 MediumPurple

```
Colour VectSharp.Colours.MediumPurple = Colour.FromRgb(147, 112, 219) [static]
```

MediumPurple #9370DB

Definition at line 431 of file StandardColours.cs.

6.4.2.92 MediumSeaGreen

```
Colour VectSharp.Colours.MediumSeaGreen = Colour.FromRgb(60, 179, 113) [static]
```

MediumSeaGreen #3CB371

Definition at line 283 of file StandardColours.cs.

6.4.2.93 MediumSlateBlue

```
Colour VectSharp.Colours.MediumSlateBlue = Colour.FromRgb(123, 104, 238) [static]
```

MediumSlateBlue #7B68EE

Definition at line 363 of file StandardColours.cs.

6.4.2.94 MediumSpringGreen

```
Colour VectSharp.Colours.MediumSpringGreen = Colour.FromRgb(0, 250, 154) [static]
```

MediumSpringGreen #00FA9A

Definition at line 231 of file StandardColours.cs.

6.4.2.95 MediumTurquoise

```
Colour VectSharp.Colours.MediumTurquoise = Colour.FromRgb(72, 209, 204) [static]
```

MediumTurquoise #48D1CC

Definition at line 303 of file StandardColours.cs.

6.4.2.96 MediumVioletRed

```
Colour VectSharp.Colours.MediumVioletRed = Colour.FromRgb(199, 21, 133) [static]
```

MediumVioletRed #C71585

Definition at line 511 of file StandardColours.cs.

6.4.2.97 MidnightBlue

```
Colour VectSharp.Colours.MidnightBlue = Colour.FromRgb(25, 25, 112) [static]
```

MidnightBlue #191970

Definition at line 251 of file StandardColours.cs.

6.4.2.98 MintCream

```
Colour VectSharp.Colours.MintCream = Colour.FromRgb(245, 255, 250) [static]
```

MintCream #F5FFFA

Definition at line 627 of file StandardColours.cs.

6.4.2.99 MistyRose

```
Colour VectSharp.Colours.MistyRose = Colour.FromRgb(255, 228, 225) [static]
```

MistyRose #FFE4E1

Definition at line 727 of file StandardColours.cs.

6.4.2.100 Moccasin

```
Colour VectSharp.Colours.Moccasin = Colour.FromRgb(255, 228, 181) [static]
```

Moccasin #FFE4B5

Definition at line 719 of file StandardColours.cs.

6.4.2.101 NavajoWhite

```
Colour VectSharp.Colours.NavajoWhite = Colour.FromRgb(255, 222, 173) [static]
```

NavajoWhite #FFDEAD

Definition at line 715 of file StandardColours.cs.

6.4.2.102 Navy

```
Colour VectSharp.Colours.Navy = Colour.FromRgb(0, 0, 128) [static]
```

Navy #000080

Definition at line 191 of file StandardColours.cs.

6.4.2.103 OldLace

```
Colour VectSharp.Colours.OldLace = Colour.FromRgb(253, 245, 230) [static]
```

OldLace #FDF5E6

Definition at line 651 of file StandardColours.cs.

6.4.2.104 Olive

```
Colour VectSharp.Colours.Olive = Colour.FromRgb(128, 128, 0) [static]
```

Olive #808000

Definition at line 387 of file StandardColours.cs.

6.4.2.105 OliveDrab

```
Colour VectSharp.Colours.OliveDrab = Colour.FromRgb(107, 142, 35) [static]
```

OliveDrab #6B8E23

Definition at line 343 of file StandardColours.cs.

6.4.2.106 Orange

```
Colour VectSharp.Colours.Orange = Colour.FromRgb(255, 165, 0) [static]
```

Orange #FFA500

Definition at line 695 of file StandardColours.cs.

6.4.2.107 OrangeRed

```
Colour VectSharp.Colours.OrangeRed = Colour.FromRgb(255, 69, 0) [static]
```

OrangeRed #FF4500

Definition at line 671 of file StandardColours.cs.

6.4.2.108 Orchid

```
Colour VectSharp.Colours.Orchid = Colour.FromRgb(218, 112, 214) [static]
```

Orchid #DA70D6

Definition at line 543 of file StandardColours.cs.

6.4.2.109 PaleGoldenRod

```
Colour VectSharp.Colours.PaleGoldenRod = Colour.FromRgb(238, 232, 170) [static]
```

PaleGoldenRod #EEE8AA

Definition at line 587 of file StandardColours.cs.

6.4.2.110 PaleGreen

```
Colour VectSharp.Colours.PaleGreen = Colour.FromRgb(152, 251, 152) [static]
```

PaleGreen #98FB98

Definition at line 439 of file StandardColours.cs.

6.4.2.111 PaleTurquoise

```
Colour VectSharp.Colours.PaleTurquoise = Colour.FromRgb(175, 238, 238) [static]
```

PaleTurquoise #AFEEEE

Definition at line 475 of file StandardColours.cs.

6.4.2.112 PaleVioletRed

```
Colour VectSharp.Colours.PaleVioletRed = Colour.FromRgb(219, 112, 147) [static]
```

PaleVioletRed #DB7093

Definition at line 551 of file StandardColours.cs.

6.4.2.113 PapayaWhip

```
Colour VectSharp.Colours.PapayaWhip = Colour.FromRgb(255, 239, 213) [static]
```

PapayaWhip #FFEFD5

Definition at line 735 of file StandardColours.cs.

6.4.2.114 PeachPuff

```
Colour VectSharp.Colours.PeachPuff = Colour.FromRgb(255, 218, 185) [static]
```

PeachPuff #FFDAB9

Definition at line 711 of file StandardColours.cs.

6.4.2.115 Peru

```
Colour VectSharp.Colours.Peru = Colour.FromRgb(205, 133, 63) [static]
```

Peru #CD853F

Definition at line 519 of file StandardColours.cs.

6.4.2.116 Pink

```
Colour VectSharp.Colours.Pink = Colour.FromRgb(255, 192, 203) [static]
```

Pink #FFC0CB

Definition at line 703 of file StandardColours.cs.

6.4.2.117 Plum

```
Colour VectSharp.Colours.Plum = Colour.FromRgb(221, 160, 221) [static]
```

Plum #DDA0DD

Definition at line 563 of file StandardColours.cs.

6.4.2.118 PowderBlue

```
Colour VectSharp.Colours.PowderBlue = Colour.FromRgb(176, 224, 230) [static]
```

PowderBlue #B0E0E6

Definition at line 483 of file StandardColours.cs.

6.4.2.119 Purple

```
Colour VectSharp.Colours.Purple = Colour.FromRgb(128, 0, 128) [static]
```

Purple #800080

Definition at line 383 of file StandardColours.cs.

6.4.2.120 RebeccaPurple

```
Colour VectSharp.Colours.RebeccaPurple = Colour.FromRgb(102, 51, 153) [static]
```

RebeccaPurple #663399

Definition at line 323 of file StandardColours.cs.

6.4.2.121 Red

```
Colour VectSharp.Colours.Red = Colour.FromRgb(255, 0, 0) [static]
```

Red #FF0000

Definition at line 655 of file StandardColours.cs.

6.4.2.122 RosyBrown

```
Colour VectSharp.Colours.RosyBrown = Colour.FromRgb(188, 143, 143) [static]
```

RosyBrown #BC8F8F

Definition at line 499 of file StandardColours.cs.

6.4.2.123 RoyalBlue

```
Colour VectSharp.Colours.RoyalBlue = Colour.FromRgb(65, 105, 225) [static]
```

RoyalBlue #4169E1

Definition at line 291 of file StandardColours.cs.

6.4.2.124 SaddleBrown

```
Colour VectSharp.Colours.SaddleBrown = Colour.FromRgb(139, 69, 19) [static]
```

SaddleBrown #8B4513

Definition at line 419 of file StandardColours.cs.

6.4.2.125 Salmon

```
Colour VectSharp.Colours.Salmon = Colour.FromRgb(250, 128, 114) [static]
```

Salmon #FA8072

Definition at line 635 of file StandardColours.cs.

6.4.2.126 SandyBrown

```
Colour VectSharp.Colours.SandyBrown = Colour.FromRgb(244, 164, 96) [static]
```

SandyBrown #F4A460

Definition at line 611 of file StandardColours.cs.

6.4.2.127 SeaGreen

```
Colour VectSharp.Colours.SeaGreen = Colour.FromRgb(46, 139, 87) [static]
```

SeaGreen #2E8B57

Definition at line 267 of file StandardColours.cs.

6.4.2.128 SeaShell

```
Colour VectSharp.Colours.SeaShell = Colour.FromRgb(255, 245, 238) [static]
```

SeaShell #FFF5EE

Definition at line 743 of file StandardColours.cs.

6.4.2.129 Sienna

```
Colour VectSharp.Colours.Sienna = Colour.FromRgb(160, 82, 45) [static]
```

Sienna #A0522D

Definition at line 451 of file StandardColours.cs.

6.4.2.130 Silver

```
Colour VectSharp.Colours.Silver = Colour.FromRgb(192, 192, 192) [static]
```

Silver #C0C0C0

Definition at line 507 of file StandardColours.cs.

6.4.2.131 SkyBlue

```
Colour VectSharp.Colours.SkyBlue = Colour.FromRgb(135, 206, 235) [static]
```

SkyBlue #87CEEB

Definition at line 399 of file StandardColours.cs.

6.4.2.132 SlateBlue

```
Colour VectSharp.Colours.SlateBlue = Colour.FromRgb(106, 90, 205) [static]
```

SlateBlue #6A5ACD

Definition at line 339 of file StandardColours.cs.

6.4.2.133 SlateGray

```
Colour VectSharp.Colours.SlateGray = Colour.FromRgb(112, 128, 144) [static]
```

SlateGray #708090

Definition at line 347 of file StandardColours.cs.

6.4.2.134 SlateGrey

```
Colour VectSharp.Colours.SlateGrey = Colour.FromRgb(112, 128, 144) [static]
```

SlateGrey #708090

Definition at line 351 of file StandardColours.cs.

6.4.2.135 Snow

```
Colour VectSharp.Colours.Snow = Colour.FromRgb(255, 250, 250) [static]
```

Snow #FFFAFA

Definition at line 759 of file StandardColours.cs.

6.4.2.136 SpringGreen

```
Colour VectSharp.Colours.SpringGreen = Colour.FromRgb(0, 255, 127) [static]
```

SpringGreen #00FF7F

Definition at line 239 of file StandardColours.cs.

6.4.2.137 SteelBlue

```
Colour VectSharp.Colours.SteelBlue = Colour.FromRgb(70, 130, 180) [static]
```

SteelBlue #4682B4

Definition at line 295 of file StandardColours.cs.

6.4.2.138 Tan

```
Colour VectSharp.Colours.Tan = Colour.FromRgb(210, 180, 140) [static]
```

Tan #D2B48C

Definition at line 527 of file StandardColours.cs.

6.4.2.139 Teal

```
Colour VectSharp.Colours.Teal = Colour.FromRgb(0, 128, 128) [static]
```

Teal #008080

Definition at line 215 of file StandardColours.cs.

6.4.2.140 Thistle

```
Colour VectSharp.Colours.Thistle = Colour.FromRgb(216, 191, 216) [static]
```

Thistle #D8BFD8

Definition at line 539 of file StandardColours.cs.

6.4.2.141 Tomato

```
Colour VectSharp.Colours.Tomato = Colour.FromRgb(255, 99, 71) [static]
```

Tomato #FF6347

Definition at line 675 of file StandardColours.cs.

6.4.2.142 Turquoise

```
Colour VectSharp.Colours.Turquoise = Colour.FromRgb(64, 224, 208) [static]
```

Turquoise #40E0D0

Definition at line 287 of file StandardColours.cs.

6.4.2.143 Violet

```
Colour VectSharp.Colours.Violet = Colour.FromRgb(238, 130, 238) [static]
```

Violet #EE82EE

Definition at line 583 of file StandardColours.cs.

6.4.2.144 Wheat

```
Colour VectSharp.Colours.Wheat = Colour.FromRgb(245, 222, 179) [static]
```

Wheat #F5DEB3

Definition at line 615 of file StandardColours.cs.

6.4.2.145 White

Colour VectSharp.Colours.White = Colour.FromRgb(255, 255, 255) [static]

White #FFFFFF

Definition at line 775 of file StandardColours.cs.

6.4.2.146 WhiteSmoke

```
Colour VectSharp.Colours.WhiteSmoke = Colour.FromRgb(245, 245, 245) [static]
```

WhiteSmoke #F5F5F5

Definition at line 623 of file StandardColours.cs.

6.4.2.147 Yellow

```
Colour VectSharp.Colours.Yellow = Colour.FromRgb(255, 255, 0) [static]
```

Yellow #FFFF00

Definition at line 763 of file StandardColours.cs.

6.4.2.148 YellowGreen

```
Colour VectSharp.Colours.YellowGreen = Colour.FromRgb(154, 205, 50) [static]
```

YellowGreen #9ACD32

Definition at line 447 of file StandardColours.cs.

The documentation for this class was generated from the following file:

· VectSharp/StandardColours.cs

6.5 VectSharp.Font.DetailedFontMetrics Class Reference

Represents detailed information about the metrics of a text string when drawn with a certain font.

Properties

• double Width [get]

Width of the text (measured on the actual glyph outlines).

• double Height [get]

Height of the text (measured on the actual glyph outlines).

• double LeftSideBearing [get]

How much the leftmost glyph in the string overhangs the glyph origin on the left. Positive for glyphs that hang past the origin (e.g. italic 'f').

• double RightSideBearing [get]

How much the rightmost glyph in the string overhangs the glyph end on the right. Positive for glyphs that hang past the end (e.g. italic 'f').

• double Top [get]

Height of the tallest glyph in the string over the baseline. Always >= 0.

• double Bottom [get]

Depth of the deepest glyph in the string below the baseline. Always \leq 0.

6.5.1 Detailed Description

Represents detailed information about the metrics of a text string when drawn with a certain font.

Definition at line 514 of file Graphics.cs.

6.5.2 Property Documentation

6.5.2.1 Bottom

```
double VectSharp.Font.DetailedFontMetrics.Bottom [get]
```

Depth of the deepest glyph in the string below the baseline. Always \leq = 0.

Definition at line 544 of file Graphics.cs.

6.5.2.2 Height

```
double VectSharp.Font.DetailedFontMetrics.Height [get]
```

Height of the text (measured on the actual glyph outlines).

Definition at line 524 of file Graphics.cs.

6.5.2.3 LeftSideBearing

```
double VectSharp.Font.DetailedFontMetrics.LeftSideBearing [get]
```

How much the leftmost glyph in the string overhangs the glyph origin on the left. Positive for glyphs that hang past the origin (e.g. italic 'f').

Definition at line 529 of file Graphics.cs.

6.5.2.4 RightSideBearing

```
double VectSharp.Font.DetailedFontMetrics.RightSideBearing [get]
```

How much the rightmost glyph in the string overhangs the glyph end on the right. Positive for glyphs that hang past the end (e.g. italic 'f').

Definition at line 534 of file Graphics.cs.

6.5.2.5 Top

```
double VectSharp.Font.DetailedFontMetrics.Top [get]
```

Height of the tallest glyph in the string over the baseline. Always >= 0.

Definition at line 539 of file Graphics.cs.

6.5.2.6 Width

```
double VectSharp.Font.DetailedFontMetrics.Width [get]
```

Width of the text (measured on the actual glyph outlines).

Definition at line 519 of file Graphics.cs.

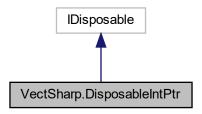
The documentation for this class was generated from the following file:

VectSharp/Graphics.cs

6.6 VectSharp.DisposableIntPtr Class Reference

An IDisposable wrapper around an IntPtr that frees the allocated memory when it is disposed.

Inheritance diagram for VectSharp.DisposableIntPtr:



Public Member Functions

- DisposableIntPtr (IntPtr pointer)

 Create a new DisposableIntPtr.
- void Dispose ()

Public Attributes

readonly IntPtr InternalPointer
 The pointer to the unmanaged memory.

6.6.1 Detailed Description

An IDisposable wrapper around an IntPtr that frees the allocated memory when it is disposed.

Definition at line 53 of file RasterImage.cs.

6.6.2 Constructor & Destructor Documentation

6.6.2.1 DisposableIntPtr()

Create a new DisposableIntPtr.

Parameters

pointer	The pointer that should be freed upon disposing of this object.
10011101	l ma bannar and and an area about an bannar a signar

Definition at line 64 of file RasterImage.cs.

6.6.3 Member Data Documentation

6.6.3.1 InternalPointer

readonly IntPtr VectSharp.DisposableIntPtr.InternalPointer

The pointer to the unmanaged memory.

Definition at line 58 of file RasterImage.cs.

The documentation for this class was generated from the following file:

· VectSharp/RasterImage.cs

6.7 VectSharp.Document Class Reference

Represents a collection of pages.

Public Member Functions

• Document ()

Create a new document.

Public Attributes

List< Page > Pages = new List<Page>()
 The pages in the document.

6.7.1 Detailed Description

Represents a collection of pages.

Definition at line 27 of file Document.cs.

6.7.2 Constructor & Destructor Documentation

6.7.2.1 Document()

VectSharp.Document.Document ()

Create a new document.

Definition at line 38 of file Document.cs.

6.7.3 Member Data Documentation

6.7.3.1 Pages

```
List<Page> VectSharp.Document.Pages = new List<Page>()
```

The pages in the document.

Definition at line 32 of file Document.cs.

The documentation for this class was generated from the following file:

· VectSharp/Document.cs

6.8 VectSharp.Font Class Reference

Represents a typeface with a specific size.

Classes

· class DetailedFontMetrics

Represents detailed information about the metrics of a text string when drawn with a certain font.

Public Member Functions

• Font (FontFamily fontFamily, double fontSize)

Create a new Font object, given the base typeface and the font size.

Size MeasureText (string text)

Measure the size of a text string when typeset with this font.

DetailedFontMetrics MeasureTextAdvanced (string text)

Measure all the metrics of a text string when typeset with this font.

Properties

```
• double FontSize [get]
```

Font size, in graphics units.

• FontFamily FontFamily [get]

Font typeface.

• double Ascent [get]

Maximum height over the baseline of the usual glyphs in the font (there may be glyphs taller than this). Always >= 0.

• double Descent [get]

Maximum depth below the baseline of the usual glyphs in the font (there may be glyphs deeper than this). Always \leq 0

• double YMax [get]

Absolute maximum height over the baseline of the glyphs in the font. Always > = 0.

• double YMin [get]

Absolute maximum depth below the baseline of the glyphs in the font. Always \leq 0.

6.8.1 Detailed Description

Represents a typeface with a specific size.

Definition at line 509 of file Graphics.cs.

6.8.2 Constructor & Destructor Documentation

6.8.2.1 Font()

Create a new Font object, given the base typeface and the font size.

Parameters

fontFamily		Base typeface. See FontFamily.
	fontSize	The font size, in graphics units.

Definition at line 572 of file Graphics.cs.

6.8.3 Member Function Documentation

6.8.3.1 MeasureText()

Measure the size of a text string when typeset with this font.

Parameters

```
text The string to measure.
```

Returns

A Size object representing the width and height of the text.

Definition at line 655 of file Graphics.cs.

6.8.3.2 MeasureTextAdvanced()

```
\begin{tabular}{lll} {\tt DetailedFontMetrics} & {\tt VectSharp.Font.MeasureTextAdvanced} & (\\ & & {\tt string} & text \end{tabular} \label{text}
```

Measure all the metrics of a text string when typeset with this font.

Parameters

text	The string to measure.

Returns

A DetailedFontMetrics object representing the metrics of the text.

Definition at line 688 of file Graphics.cs.

6.8.4 Property Documentation

6.8.4.1 Ascent

```
double VectSharp.Font.Ascent [get]
```

Maximum height over the baseline of the usual glyphs in the font (there may be glyphs taller than this). Always >= 0

Definition at line 581 of file Graphics.cs.

6.8.4.2 Descent

```
double VectSharp.Font.Descent [get]
```

Maximum depth below the baseline of the usual glyphs in the font (there may be glyphs deeper than this). Always ≤ 0 .

Definition at line 599 of file Graphics.cs.

6.8.4.3 FontFamily

```
FontFamily VectSharp.Font.FontFamily [get]
```

Font typeface.

Definition at line 565 of file Graphics.cs.

6.8.4.4 FontSize

```
double VectSharp.Font.FontSize [get]
```

Font size, in graphics units.

Definition at line 560 of file Graphics.cs.

6.8.4.5 YMax

```
double VectSharp.Font.YMax [get]
```

Absolute maximum height over the baseline of the glyphs in the font. Always \geq = 0.

Definition at line 617 of file Graphics.cs.

6.8.4.6 YMin

```
double VectSharp.Font.YMin [get]
```

Absolute maximum depth below the baseline of the glyphs in the font. Always \leq = 0.

Definition at line 635 of file Graphics.cs.

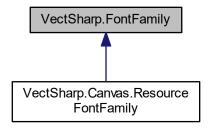
The documentation for this class was generated from the following file:

· VectSharp/Graphics.cs

6.9 VectSharp.FontFamily Class Reference

Represents a typeface.

Inheritance diagram for VectSharp.FontFamily:



Public Types

• enum StandardFontFamilies {

StandardFontFamilies.TimesRoman, StandardFontFamilies.TimesBold, StandardFontFamilies.TimesItalic, StandardFontFamilies.TimesBoldItalic,

StandardFontFamilies.Helvetica, StandardFontFamilies.HelveticaBold, StandardFontFamilies.HelveticaOblique, StandardFontFamilies.HelveticaBoldOblique,

StandardFontFamilies.Courier, StandardFontFamilies.CourierBold, StandardFontFamilies.CourierOblique, StandardFontFamilies.CourierBoldOblique,

StandardFontFamilies.Symbol, StandardFontFamilies.ZapfDingbats }

The 14 standard font families.

Public Member Functions

· FontFamily (string fileName)

Create a new FontFamily.

• FontFamily (Stream ttfStream)

Create a new FontFamily.

FontFamily (StandardFontFamilies standardFontFamily)

Create a new standard FontFamily.

Static Public Attributes

static string[] StandardFamilies = new string[] { "Times-Roman", "Times-Bold", "Times-Italic", "Times-Bold
 ltalic", "Helvetica", "Helvetica-Bold", "Helvetica-Oblique", "Helvetica-BoldOblique", "Courier", "Courier-Bold",
 "Courier-Oblique", "Courier-BoldOblique", "Symbol", "ZapfDingbats" }

The names of the 14 standard families that are guaranteed to be displayed correctly.

• static string[] StandardFontFamilyResources

The names of the resource streams pointing to the included TrueType font files for each of the standard 14 font families.

Properties

• bool IsStandardFamily [get]

Whether this is one of the 14 standard font families or not.

• string FileName [get]

Full path to the TrueType font file for this font family (or, if this is a standard font family, name of the font family).

• TrueTypeFile TrueTypeFile [get]

Parsed TrueType font file for this font family. See also: See also

VectSharp.TrueTypeFile

• bool IsBold [get]

Whether this font is bold or not. This is set based on the information included in the OS/2 table of the TrueType file.

• bool IsItalic [get]

Whether this font is italic or oblique or not. This is set based on the information included in the OS/2 table of the TrueType file.

• bool IsOblique [get]

Whether this font is oblique or not. This is set based on the information included in the OS/2 table of the TrueType file.

6.9.1 Detailed Description

Represents a typeface.

Definition at line 724 of file Graphics.cs.

6.9.2 Member Enumeration Documentation

6.9.2.1 StandardFontFamilies

```
enum VectSharp.FontFamily.StandardFontFamilies [strong]
```

The 14 standard font families.

Enumerator

Serif normal regular face.
Serif bold regular face.
Serif normal italic face.
Serif bold italic face.
Sans-serif normal regular face.
Sans-serif bold regular face.
Sans-serif normal oblique face.
Sans-serif bold oblique face.
Monospace normal regular face.
Monospace bold regular face.
Monospace normal oblique face.
Monospace bold oblique face.
Symbol font.
Dingbat font.

Definition at line 763 of file Graphics.cs.

6.9.3 Constructor & Destructor Documentation

6.9.3.1 FontFamily() [1/3]

Create a new FontFamily.

Parameters

fileName	The full path to the TrueType font file for this font family or the name of a standard font family.
----------	---

Definition at line 866 of file Graphics.cs.

6.9.3.2 FontFamily() [2/3]

```
\label{thm:continuity} \mbox{VectSharp.FontFamily.FontFamily (} \\ \mbox{Stream } ttfStream \mbox{)}
```

Create a new FontFamily.

Parameters

ttfStream A stream containing a file in TTF format.

Definition at line 915 of file Graphics.cs.

6.9.3.3 FontFamily() [3/3]

```
\label{thm:cont_family} \mbox{VectSharp.FontFamily.FontFamily (} \\ \mbox{StandardFontFamilies } \mbox{standardFontFamily )}
```

Create a new standard FontFamily.

Parameters

standardFontFamily	The standard font family.
--------------------	---------------------------

Definition at line 931 of file Graphics.cs.

6.9.4 Member Data Documentation

6.9.4.1 StandardFamilies

```
string [] VectSharp.FontFamily.StandardFamilies = new string[] { "Times-Roman", "Times-Bold", "Times-Bold", "Times-Bold", "Helvetica-Bold", "Helvetica-Bold", "Helvetica-Bold", "Helvetica-Bold, "Helvetica-Bold, "Courier", "Courier", "Courier-Bold", "Courier-BoldOblique", "Symbol", "Zapf↔ Dingbats" } [static]
```

The names of the 14 standard families that are guaranteed to be displayed correctly.

Definition at line 742 of file Graphics.cs.

6.9.4.2 StandardFontFamilyResources

```
string [] VectSharp.FontFamily.StandardFontFamilyResources [static]
```

Initial value:

The names of the resource streams pointing to the included TrueType font files for each of the standard 14 font families.

Definition at line 747 of file Graphics.cs.

6.9.5 Property Documentation

6.9.5.1 FileName

```
string VectSharp.FontFamily.FileName [get]
```

Full path to the TrueType font file for this font family (or, if this is a standard font family, name of the font family).

Definition at line 839 of file Graphics.cs.

6.9.5.2 IsBold

```
bool VectSharp.FontFamily.IsBold [get]
```

Whether this font is bold or not. This is set based on the information included in the OS/2 table of the TrueType file.

Definition at line 850 of file Graphics.cs.

6.9.5.3 Isltalic

```
bool VectSharp.FontFamily.IsItalic [get]
```

Whether this font is italic or oblique or not. This is set based on the information included in the OS/2 table of the TrueType file.

Definition at line 855 of file Graphics.cs.

6.9.5.4 IsOblique

```
bool VectSharp.FontFamily.IsOblique [get]
```

Whether this font is oblique or not. This is set based on the information included in the OS/2 table of the TrueType file.

Definition at line 860 of file Graphics.cs.

6.9.5.5 IsStandardFamily

```
bool VectSharp.FontFamily.IsStandardFamily [get]
```

Whether this is one of the 14 standard font families or not.

Definition at line 758 of file Graphics.cs.

6.9.5.6 TrueTypeFile

```
TrueTypeFile VectSharp.FontFamily.TrueTypeFile [get]
```

Parsed TrueType font file for this font family. See also:

See also

VectSharp.TrueTypeFile

Definition at line 845 of file Graphics.cs.

The documentation for this class was generated from the following file:

VectSharp/Graphics.cs

6.10 VectSharp.Graphics Class Reference

Represents an abstract drawing surface.

Public Member Functions

• void FillPath (GraphicsPath path, Colour fillColour, string tag=null)

Fill a GraphicsPath.

void StrokePath (GraphicsPath path, Colour strokeColour, double lineWidth=1, LineCaps line
 — Cap=LineCaps.Butt, LineJoins lineJoinsLineJoins.Miter, LineDash? lineDash=null, string tag=null)

Stroke a GraphicsPath.

void SetClippingPath (GraphicsPath path)

Intersect the current clipping path with the specified GraphicsPath.

void SetClippingPath (double leftX, double topY, double width, double height)

Intersect the current clipping path with the specified rectangle.

void SetClippingPath (Point topLeft, Size size)

Intersect the current clipping path with the specified rectangle.

void Rotate (double angle)

Rotate the coordinate system around the origin.

void RotateAt (double angle, Point pivot)

Rotate the coordinate system around a pivot point.

void Transform (double a, double b, double c, double d, double e, double f)

Transform the coordinate system with the specified transformation matrix [[a, c, e], [b, d, f], [0, 0, 1]].

void Translate (double x, double y)

Translate the coordinate system origin.

• void Translate (Point delta)

Translate the coordinate system origin.

void Scale (double scaleX, double scaleY)

Scale the coordinate system with respect to the origin.

• void FillRectangle (Point topLeft, Size size, Colour fillColour, string tag=null)

Fill a rectangle.

- void FillRectangle (double leftX, double topY, double width, double height, Colour fillColour, string tag=null) Fill a rectangle.
- void StrokeRectangle (Point topLeft, Size size, Colour strokeColour, double lineWidth=1, LineCaps line
 — Cap=LineCaps.Butt, LineJoins lineJoinsLineJoins.Miter, LineDash? lineDash=null, string tag=null)

Stroke a rectangle

void StrokeRectangle (double leftX, double topY, double width, double height, Colour strokeColour, double lineWidth=1, LineCaps lineCap=LineCaps.Butt, LineJoins lineJoin=LineJoins.Miter, LineDash? line← Dash=null, string tag=null)

Stroke a rectangle.

 void DrawRasterImage (int sourceX, int sourceY, int sourceWidth, int sourceHeight, double destinationX, double destinationY, double destinationWidth, double destinationHeight, RasterImage image, string tag=null)

Draw a raster image.

void DrawRasterImage (double x, double y, RasterImage image, string tag=null)

Draw a raster image.

• void DrawRasterImage (Point position, RasterImage image, string tag=null)

Draw a raster image.

- void DrawRasterImage (double x, double y, double width, double height, RasterImage image, string tag=null)

 Draw a raster image.
- void DrawRasterImage (Point position, Size size, RasterImage image, string tag=null)

Draw a raster image.

 void FillText (Point origin, string text, Font font, Colour fillColour, TextBaselines textBaseline=TextBaselines.Top, string tag=null)

Fill a text string.

Fill a text string.

void StrokeText (Point origin, string text, Font font, Colour strokeColour, TextBaselines textBaseline=TextBaselines.Top, double lineWidth=1, LineCaps lineCap=LineCaps.Butt, LineJoins lineJoin=LineJoins.Miter, LineDash? line ← Dash=null, string tag=null)

Stroke a text string.

void StrokeText (double originX, double originY, string text, Font font, Colour strokeColour, TextBaselines textBaseline=TextBaselines.Top, double lineWidth=1, LineCaps lineCap=LineCaps.Butt, LineJoins line
 — Join=LineJoins.Miter, LineDash? lineDash=null, string tag=null)

Stroke a text string.

• void FillTextOnPath (GraphicsPath path, string text, Font font, Colour fillColour, double reference=0, TextAnchors anchor=TextAnchors.Left, TextBaselines textBaseline=TextBaselines.Top, string tag=null)

Fill a text string along a GraphicsPath.

 void StrokeTextOnPath (GraphicsPath path, string text, Font font, Colour strokeColour, double reference=0, TextAnchors anchor=TextAnchors.Left, TextBaselines textBaseline=TextBaselines.Top, double lineWidth=1, LineCaps lineCap=LineCaps.Butt, LineJoins lineJoin=LineJoins.Miter, LineDash? lineDash=null, string tag=null)

Stroke a text string along a GraphicsPath.

Size MeasureText (string text, Font font)

Measure a text string. See also

See also

Font.MeasureText(string), Font.MeasureTextAdvanced(string)

and.

· void Save ()

Save the current transform state (rotation, translation, scale).

• void Restore ()

Restore the previous transform state (rotation, translation scale).

void CopyTolGraphicsContext (IGraphicsContext destinationContext)

Copy the current graphics to an instance of a class implementing IGraphicsContext.

void DrawGraphics (Point origin, Graphics graphics)

Draws a Graphics object on the current Graphics object.

· void DrawGraphics (double originX, double originY, Graphics graphics)

Draws a Graphics object on the current Graphics object.

Properties

• static UnbalancedStackActions UnbalancedStackAction = UnbalancedStackActions.Throw [get, set]

Determines how an unbalanced graphics state stack (which occurs if the number of calls to Save and Restore is not equal) will be treated. The default is UnbalancedStackActions.Throw.

6.10.1 Detailed Description

Represents an abstract drawing surface.

Definition at line 1911 of file Graphics.cs.

6.10.2 Member Function Documentation

6.10.2.1 CopyTolGraphicsContext()

Copy the current graphics to an instance of a class implementing IGraphicsContext.

Parameters

destinationContext	The IGraphicsContext on which the graphics are to be copied.
--------------------	--

Definition at line 2535 of file Graphics.cs.

6.10.2.2 DrawGraphics() [1/2]

Draws a Graphics object on the current Graphics object.

Parameters

originX	The horizontal coordinate at which to place the origin of graphics .
originY	The vertical coordinate at which to place the origin of graphics.
graphics	The Graphics object to draw on the current Graphics object.

Definition at line 2751 of file Graphics.cs.

6.10.2.3 DrawGraphics() [2/2]

Draws a Graphics object on the current Graphics object.

Parameters

origin	The point at which to place the origin of graphics.
aranhiaa	The Craphics ships to draw an the surrent Craphics ships t
grapnics	The Graphics object to draw on the current Graphics object.
Generated by D	oxygen

Generated by Doxygen

Definition at line 2733 of file Graphics.cs.

6.10.2.4 DrawRasterImage() [1/5]

Draw a raster image.

Parameters

X	The horizontal coordinate of the top-left corner of the rectangle delimiting the destination area of the image.
У	The vertical coordinate of the top-left corner of the rectangle delimiting the destination area of the image.
width	The width of the rectangle delimiting the destination area of the image.
height	The height of the rectangle delimiting the destination area of the image.
image	The image to draw.
tag	A tag to identify the drawn image.

Definition at line 2154 of file Graphics.cs.

6.10.2.5 DrawRasterImage() [2/5]

Draw a raster image.

Parameters

X	The horizontal coordinate of the top-left corner of the rectangle delimiting the destination area of the image.
У	The vertical coordinate of the top-left corner of the rectangle delimiting the destination area of the image.
image	The image to draw.
tag	A tag to identify the drawn image.

Definition at line 2129 of file Graphics.cs.

6.10.2.6 DrawRasterImage() [3/5]

```
void VectSharp.Graphics.DrawRasterImage (
    int sourceX,
    int sourceY,
    int sourceWidth,
    int sourceHeight,
    double destinationX,
    double destinationY,
    double destinationWidth,
    double destinationHeight,
    RasterImage image,
    string tag = null )
```

Draw a raster image.

Parameters

sourceX	The horizontal coordinate of the top-left corner of the rectangle delimiting the source area of the image.
sourceY	The vertical coordinate of the top-left corner of the rectangle delimiting the source area of the image.
sourceWidth	The width of the rectangle delimiting the source area of the image.
sourceHeight	The height of the rectangle delimiting the source area of the image.
destinationX	The horizontal coordinate of the top-left corner of the rectangle delimiting the destination area of the image.
destinationY	The vertical coordinate of the top-left corner of the rectangle delimiting the destination area of the image.
destinationWidth	The width of the rectangle delimiting the destination area of the image.
destinationHeight	The height of the rectangle delimiting the destination area of the image.
image	The image to draw.
tag	A tag to identify the drawn image.

Definition at line 2117 of file Graphics.cs.

6.10.2.7 DrawRasterImage() [4/5]

Draw a raster image.

Parameters

position	The the top-left corner of the rectangle delimiting the destination area of the image.
image	The image to draw.
tag	A tag to identify the drawn image.

Definition at line 2140 of file Graphics.cs.

6.10.2.8 DrawRasterImage() [5/5]

Draw a raster image.

Parameters

position	The the top-left corner of the rectangle delimiting the destination area of the image.
size	The size of the rectangle delimiting the destination area of the image.
image	The image to draw.
tag	A tag to identify the drawn image.

Definition at line 2166 of file Graphics.cs.

6.10.2.9 FillPath()

Fill a GraphicsPath.

Parameters

path	The GraphicsPath to fill.
fillColour	The Colour with which to fill the GraphicsPath.
tag	A tag to identify the filled path.

Definition at line 1926 of file Graphics.cs.

6.10.2.10 FillRectangle() [1/2]

Fill a rectangle.

Parameters

leftX	The horizontal coordinate of the top-left corner of the rectangle.
topY	The vertical coordinate of the top-left corner of the rectangle.
width	The width of the rectangle.
height	The height of the rectangle.
fillColour	The colour with which to fill the rectangle.
tag	A tag to identify the filled rectangle.

Definition at line 2065 of file Graphics.cs.

6.10.2.11 FillRectangle() [2/2]

Fill a rectangle.

Parameters

topLeft	The top-left corner of the rectangle.
size	The size of the rectangle.
fillColour	The colour with which to fill the rectangle.
tag	A tag to identify the filled rectangle.

Definition at line 2051 of file Graphics.cs.

6.10.2.12 FillText() [1/2]

```
double originY,
string text,
Font font,
Colour fillColour,
TextBaselines textBaseline = TextBaselines.Top,
string tag = null )
```

Fill a text string.

Parameters

originX	The horizontal coordinate of the text origin.
originY	The vertical coordinate of the text origin. See textBaseline.
text	The string to draw.
font	The font with which to draw the text.
fillColour	The colour to use to fill the text.
textBaseline	The text baseline (determines what originY represents).
tag	A tag to identify the filled text.

Definition at line 2195 of file Graphics.cs.

6.10.2.13 FillText() [2/2]

Fill a text string.

Parameters

origin	The text origin. See textBaseline.
text	The string to draw.
font	The font with which to draw the text.
fillColour	The colour to use to fill the text.
textBaseline	The text baseline (determines what the vertical component of <i>origin</i> represents).
tag	A tag to identify the filled text.

Definition at line 2180 of file Graphics.cs.

6.10.2.14 FillTextOnPath()

```
string text,
Font font,
Colour fillColour,
double reference = 0,
TextAnchors anchor = TextAnchors.Left,
TextBaselines textBaseline = TextBaselines.Top,
string tag = null )
```

Fill a text string along a GraphicsPath.

Parameters

path	The GraphicsPath along which the text will flow.
text	The string to draw.
font	The font with which to draw the text.
fillColour	The colour to use to fill the text.
reference	The (relative) starting point on the path starting from which the text should be drawn (0 is the start of the path, 1 is the end of the path).
anchor	The anchor in the text string that will correspond to the point specified by the <i>reference</i> .
textBaseline	The text baseline (determines which the position of the text in relation to the path.
tag	A tag to identify the filled text.

Definition at line 2248 of file Graphics.cs.

6.10.2.15 MeasureText()

Measure a text string. See also

See also

Font.MeasureText(string), Font.MeasureTextAdvanced(string)

and.

Parameters

text	The string to measure.
font	The font to use to measure the string.

Returns

Definition at line 2452 of file Graphics.cs.

6.10.2.16 Restore()

```
void VectSharp.Graphics.Restore ( )
```

Restore the previous transform state (rotation, translation scale).

Definition at line 2468 of file Graphics.cs.

6.10.2.17 Rotate()

Rotate the coordinate system around the origin.

Parameters

angle The angle (in radians) by which to rotate the coordinate sys	stem.
--	-------

Definition at line 1982 of file Graphics.cs.

6.10.2.18 RotateAt()

Rotate the coordinate system around a pivot point.

Parameters

angle	The angle (in radians) by which to rotate the coordinate system.
pivot	The pivot around which the coordinate system is to be rotated.

Definition at line 1992 of file Graphics.cs.

6.10.2.19 Save()

```
void VectSharp.Graphics.Save ( )
```

Save the current transform state (rotation, translation, scale).

Definition at line 2460 of file Graphics.cs.

6.10.2.20 Scale()

```
void VectSharp.Graphics.Scale ( \label{eq:condition} \mbox{double } scaleX, \\ \mbox{double } scaleY \; )
```

Scale the coordinate system with respect to the origin.

Parameters

scaleX	The horizontal scale.
scaleY	The vertical scale.

Definition at line 2039 of file Graphics.cs.

6.10.2.21 SetClippingPath() [1/3]

Intersect the current clipping path with the specified rectangle.

Parameters

leftX	The horizontal coordinate of the top-left corner of the rectangle.
topY	The vertical coordinate of the top-left corner of the rectangle.
width	The width of the rectangle.
height	The height of the rectangle.

Definition at line 1963 of file Graphics.cs.

6.10.2.22 SetClippingPath() [2/3]

Intersect the current clipping path with the specified GraphicsPath.

Parameters

path	The GraphicsPath to intersect with the current clipping path.
------	---

Definition at line 1951 of file Graphics.cs.

6.10.2.23 SetClippingPath() [3/3]

Intersect the current clipping path with the specified rectangle.

Parameters

topLeft	The top-left corner of the rectangle.
size	The size of the rectangle.

Definition at line 1973 of file Graphics.cs.

6.10.2.24 StrokePath()

Stroke a GraphicsPath.

Parameters

path	The GraphicsPath to stroke.
strokeColour	The Colour with which to stroke the GraphicsPath.
lineWidth	The width of the line with which the path is stroked.
lineCap	The line cap to use to stroke the path.
lineJoin	The line join to use to stroke the path.
lineDash	The line dash to use to stroke the path.
tag	A tag to identify the stroked path.

Definition at line 1942 of file Graphics.cs.

6.10.2.25 StrokeRectangle() [1/2]

Stroke a rectangle.

Parameters

leftX	The horizontal coordinate of the top-left corner of the rectangle.
topY	The vertical coordinate of the top-left corner of the rectangle.
width	The width of the rectangle.
height	The height of the rectangle.
strokeColour	The colour with which to stroke the rectangle.
lineWidth	The width of the line with which the rectangle is stroked.
lineCap	The line cap to use to stroke the rectangle.
lineJoin	The line join to use to stroke the rectangle.
lineDash	The line dash to use to stroke the rectangle.
tag	A tag to identify the filled rectangle.

Definition at line 2099 of file Graphics.cs.

6.10.2.26 StrokeRectangle() [2/2]

Stroke a rectangle.

topLeft	The top-left corner of the rectangle.
size	The size of the rectangle.
strokeColour	The colour with which to stroke the rectangle.

Parameters

lineWidth	The width of the line with which the rectangle is stroked.
lineCap	The line cap to use to stroke the rectangle.
lineJoin	The line join to use to stroke the rectangle.
lineDash	The line dash to use to stroke the rectangle.
tag	A tag to identify the filled rectangle.

Definition at line 2081 of file Graphics.cs.

6.10.2.27 StrokeText() [1/2]

Stroke a text string.

Parameters

originX	The horizontal coordinate of the text origin.
originY	The vertical coordinate of the text origin. See textBaseline.
text	The string to draw.
font	The font with which to draw the text.
strokeColour	The colour with which to stroke the text.
lineWidth	The width of the line with which the text is stroked.
lineCap	The line cap to use to stroke the text.
lineJoin	The line join to use to stroke the text.
lineDash	The line dash to use to stroke the text.
textBaseline	The text baseline (determines what originY represents).
tag	A tag to identify the stroked text.

Definition at line 2232 of file Graphics.cs.

6.10.2.28 StrokeText() [2/2]

```
string text,
Font font,
Colour strokeColour,
TextBaselines textBaseline = TextBaselines.Top,
double lineWidth = 1,
LineCaps lineCap = LineCaps.Butt,
LineJoins lineJoin = LineJoins.Miter,
LineDash? lineDash = null,
string tag = null)
```

Stroke a text string.

Parameters

origin	The text origin. See textBaseline.
text	The string to draw.
font	The font with which to draw the text.
strokeColour	The colour with which to stroke the text.
lineWidth	The width of the line with which the text is stroked.
lineCap	The line cap to use to stroke the text.
lineJoin	The line join to use to stroke the text.
lineDash	The line dash to use to stroke the text.
textBaseline	The text baseline (determines what the vertical component of <i>origin</i> represents).
tag	A tag to identify the stroked text.

Definition at line 2213 of file Graphics.cs.

6.10.2.29 StrokeTextOnPath()

Stroke a text string along a GraphicsPath.

path	The GraphicsPath along which the text will flow.
text	The string to draw.
font	The font with which to draw the text.
strokeColour	The colour with which to stroke the text.

Parameters

lineWidth	The width of the line with which the text is stroked.
lineCap	The line cap to use to stroke the text.
lineJoin	The line join to use to stroke the text.
lineDash	The line dash to use to stroke the text.
reference	The (relative) starting point on the path starting from which the text should be drawn (0 is the start of the path, 1 is the end of the path).
anchor	The anchor in the text string that will correspond to the point specified by the reference.
textBaseline	The text baseline (determines which the position of the text in relation to the path.
tag	A tag to identify the stroked text.

Definition at line 2354 of file Graphics.cs.

6.10.2.30 Transform()

Transform the coordinate system with the specified transformation matrix [[a, c, e], [b, d, f], [0, 0, 1]].

Parameters

а	The first element of the first column.
b	The second element of the first column.
С	The first element of the second column.
d	The second element of the second column.
е	The first element of the third column.
f	The second element of the third column.

Definition at line 2009 of file Graphics.cs.

6.10.2.31 Translate() [1/2]

```
void VectSharp.Graphics.Translate ( \label{eq:condition} \mbox{double } x, \mbox{double } y \mbox{ )}
```

Translate the coordinate system origin.

Parameters

X	The horizontal translation.
У	The vertical translation.

Definition at line 2020 of file Graphics.cs.

6.10.2.32 Translate() [2/2]

Translate the coordinate system origin.

Parameters

delta	The new origin point.
-------	-----------------------

Definition at line 2029 of file Graphics.cs.

6.10.3 Property Documentation

6.10.3.1 UnbalancedStackAction

```
UnbalancedStackActions VectSharp.Graphics.UnbalancedStackAction = UnbalancedStackActions.Throw
[static], [get], [set]
```

Determines how an unbalanced graphics state stack (which occurs if the number of calls to Save and Restore is not equal) will be treated. The default is UnbalancedStackActions.Throw.

Definition at line 1916 of file Graphics.cs.

The documentation for this class was generated from the following file:

• VectSharp/Graphics.cs

6.11 VectSharp.GraphicsPath Class Reference

Represents a graphics path that can be filled or stroked.

Public Member Functions

GraphicsPath MoveTo (Point p)

Move the current point without tracing a segment from the previous point.

GraphicsPath MoveTo (double x, double y)

Move the current point without tracing a segment from the previous point.

GraphicsPath LineTo (Point p)

Move the current point and trace a segment from the previous point.

• GraphicsPath LineTo (double x, double y)

Move the current point and trace a segment from the previous point.

• GraphicsPath Arc (Point center, double radius, double startAngle, double endAngle)

Trace an arc segment from a circle with the specified center and radius, starting at startAngle and ending at endAngle. The current point is updated to the end point of the arc.

· GraphicsPath Arc (double centerX, double centerY, double radius, double startAngle, double endAngle)

Trace an arc segment from a circle with the specified center and radius, starting at startAngle and ending at endAngle. The current point is updated to the end point of the arc.

GraphicsPath EllipticalArc (double radiusX, double radiusY, double axisAngle, bool largeArc, bool sweep
 — Clockwise, Point endPoint)

Trace an arc from an ellipse with the specified radii, rotated by axisAngle with respect to the x-axis, starting at the current point and ending at the endPoint.

• GraphicsPath CubicBezierTo (Point control1, Point control2, Point endPoint)

Trace a cubic Bezier curve from the current point to a destination point, with two control points. The current point is updated to the end point of the Bezier curve.

GraphicsPath CubicBezierTo (double control1X, double control1Y, double control2X, double control2Y, double endPointX, double endPointY)

Trace a cubic Bezier curve from the current point to a destination point, with two control points. The current point is updated to the end point of the Bezier curve.

GraphicsPath Close ()

Trace a segment from the current point to the start point of the figure and flag the figure as closed.

GraphicsPath AddText (double originX, double originY, string text, Font font, TextBaselines text

 Baseline=TextBaselines.Top)

Add the contour of a text string to the current path.

GraphicsPath AddText (Point origin, string text, Font font, TextBaselines textBaseline=TextBaselines.Top)

Add the contour of a text string to the current path.

GraphicsPath AddTextOnPath (GraphicsPath path, string text, Font font, double reference=0, TextAnchors anchor=TextAnchors.Left, TextBaselines textBaseline=TextBaselines.Top)

Add the contour of a text string flowing along a GraphicsPath to the current path.

GraphicsPath AddSmoothSpline (params Point[] points)

Adds a smooth spline composed of cubic bezier segments that pass through the specified points.

double MeasureLength ()

Measures the length of the GraphicsPath.

Point GetPointAtRelative (double position)

Gets the point at the relative position specified on the GraphicsPath.

Point GetPointAtAbsolute (double length)

Gets the point at the absolute position specified on the GraphicsPath.

Point GetTangentAtRelative (double position)

Gets the tangent to the point at the relative position specified on the GraphicsPath.

Point GetTangentAtAbsolute (double length)

Gets the tangent to the point at the absolute position specified on the GraphicsPath.

Point GetNormalAtAbsolute (double length)

Gets the normal to the point at the absolute position specified on the GraphicsPath.

Point GetNormalAtRelative (double position)

Gets the normal to the point at the relative position specified on the GraphicsPath.

Properties

```
• List< Segment > Segments = new List<Segment>() [get, set]

The segments that make up the path.
```

6.11.1 Detailed Description

Represents a graphics path that can be filled or stroked.

Definition at line 2939 of file Graphics.cs.

6.11.2 Member Function Documentation

6.11.2.1 AddSmoothSpline()

Adds a smooth spline composed of cubic bezier segments that pass through the specified points.

Parameters

points	The points through which the spline should pass.
--------	--

Returns

The GraphicsPath, to allow for chained calls.

Definition at line 3390 of file Graphics.cs.

6.11.2.2 AddText() [1/2]

Add the contour of a text string to the current path.

originX	The horizontal coordinate of the text origin.
originY	The vertical coordinate of the text origin. See textBaseline.
Generated by Doxyg	^{en} The string to draw.
font	The font with which to draw the text.
textBaseline	The text baseline (determines what <i>originY</i> represents).

///

Returns

The GraphicsPath, to allow for chained calls.

Definition at line 3188 of file Graphics.cs.

6.11.2.3 AddText() [2/2]

Add the contour of a text string to the current path.

Parameters

origin	The text origin. See textBaseline.	
text	The string to draw.	
font	The font with which to draw the text.	
textBaseline	The text baseline (determines what the vertical component of <i>origin</i> represents).	

Returns

The GraphicsPath, to allow for chained calls.

Definition at line 3201 of file Graphics.cs.

6.11.2.4 AddTextOnPath()

Add the contour of a text string flowing along a GraphicsPath to the current path.

path	The GraphicsPath along which the text will flow.
text	The string to draw.

Parameters

font	The font with which to draw the text.
reference	The (relative) starting point on the path starting from which the text should be drawn (0 is the start of the path, 1 is the end of the path).
anchor	The anchor in the text string that will correspond to the point specified by the <i>reference</i> .
textBaseline	The text baseline (determines which the position of the text in relation to the path.

Returns

The GraphicsPath, to allow for chained calls.

Definition at line 3278 of file Graphics.cs.

6.11.2.5 Arc() [1/2]

Trace an arc segment from a circle with the specified center and radius, starting at startAngle and ending at endAngle. The current point is updated to the end point of the arc.

Parameters

centerX	The horizontal coordinate of the center of the arc.
centerY	The vertical coordinate of the center of the arc.
radius	The radius of the arc.
startAngle	The start angle (in radians) of the arc.
endAngle	The end angle (in radians) of the arc.

Returns

The GraphicsPath, to allow for chained calls.

Definition at line 3029 of file Graphics.cs.

6.11.2.6 Arc() [2/2]

```
double startAngle,
double endAngle )
```

Trace an arc segment from a circle with the specified center and radius, starting at startAngle and ending at endAngle. The current point is updated to the end point of the arc.

Parameters

center	The center of the arc.
radius	The radius of the arc.
startAngle	The start angle (in radians) of the arc.
endAngle	The end angle (in radians) of the arc.

Returns

The GraphicsPath, to allow for chained calls.

Definition at line 3009 of file Graphics.cs.

6.11.2.7 Close()

```
GraphicsPath VectSharp.GraphicsPath.Close ( )
```

Trace a segment from the current point to the start point of the figure and flag the figure as closed.

Returns

The GraphicsPath, to allow for chained calls.

Definition at line 3173 of file Graphics.cs.

6.11.2.8 CubicBezierTo() [1/2]

Trace a cubic Bezier curve from the current point to a destination point, with two control points. The current point is updated to the end point of the Bezier curve.

control1X	The horizontal coordinate of the first control point.
control1Y	The vertical coordinate of the first control point.
control2X	The horizontal coordinate of the second control point.
control2Y	The vertical coordinate of the second control point.
endPointX	The horizontal coordinate of the destination point.
endPointY	The vertical coordinate of the destination point.

Returns

The GraphicsPath, to allow for chained calls.

Definition at line 3163 of file Graphics.cs.

6.11.2.9 CubicBezierTo() [2/2]

Trace a cubic Bezier curve from the current point to a destination point, with two control points. The current point is updated to the end point of the Bezier curve.

Parameters

control1	The first control point.
control2	The second control point.
endPoint	The destination point.

Returns

The GraphicsPath, to allow for chained calls.

Definition at line 3142 of file Graphics.cs.

6.11.2.10 EllipticalArc()

Trace an arc from an ellipse with the specified radii, rotated by *axisAngle* with respect to the x-axis, starting at the current point and ending at the *endPoint*.

radiusX	The horizontal radius of the ellipse.	
radiusY	The vertical radius of the ellipse.	
axisAngle	The angle of the horizontal axis of the ellipse with respect to the horizontal axis.	
largeArc	Determines whether the large or the small arc is drawn.	
sweepClockwise	Determines whether the clockwise or counterclockwise arc is drawn.	
endPoint	The end point of the arc.	ted by Doxyge

Returns

Definition at line 3045 of file Graphics.cs.

6.11.2.11 GetNormalAtAbsolute()

Gets the normal to the point at the absolute position specified on the GraphicsPath.

Parameters

length The distance to the point from the start of the GraphicsPath	
---	--

Returns

The normal to the point at the specified position.

Definition at line 4089 of file Graphics.cs.

6.11.2.12 GetNormalAtRelative()

Gets the normal to the point at the relative position specified on the GraphicsPath.

Parameters

```
position The position on the GraphicsPath (0 is the start of the path, 1 is the end of the path).
```

Returns

The normal to the point at the specified position.

Definition at line 4100 of file Graphics.cs.

6.11.2.13 GetPointAtAbsolute()

Gets the point at the absolute position specified on the GraphicsPath.

Parameters

lenath	The distance to the point from the start of the GraphicsPath.

Returns

The point at the specified position.

Definition at line 3505 of file Graphics.cs.

6.11.2.14 GetPointAtRelative()

Gets the point at the relative position specified on the GraphicsPath.

Parameters

position The position on the GraphicsPath (0 is the start of the path, 1 is the end of the path).

Returns

The point at the specified position.

Definition at line 3495 of file Graphics.cs.

6.11.2.15 GetTangentAtAbsolute()

```
Point VectSharp.GraphicsPath.GetTangentAtAbsolute ( {\tt double} \  \, length \ )
```

Gets the tangent to the point at the absolute position specified on the ${\bf GraphicsPath}.$

Parameters

length The distance to the point from the start of the GraphicsP	ath.
--	------

Returns

The tangent to the point at the specified position.

Definition at line 3802 of file Graphics.cs.

6.11.2.16 GetTangentAtRelative()

```
Point VectSharp.GraphicsPath.GetTangentAtRelative ( double position )
```

Gets the tangent to the point at the relative position specified on the GraphicsPath.

Parameters

Returns

The tangent to the point at the specified position.

Definition at line 3792 of file Graphics.cs.

6.11.2.17 LineTo() [1/2]

Move the current point and trace a segment from the previous point.

Parameters

X	The horizontal coordinate of the new point.
у	The vertical coordinate of the new point.

Returns

The GraphicsPath, to allow for chained calls.

Definition at line 2994 of file Graphics.cs.

6.11.2.18 LineTo() [2/2]

Move the current point and trace a segment from the previous point.

Parameters

```
p The new point.
```

Returns

The GraphicsPath, to allow for chained calls.

Definition at line 2975 of file Graphics.cs.

6.11.2.19 MeasureLength()

```
double VectSharp.GraphicsPath.MeasureLength ( )
```

Measures the length of the GraphicsPath.

Returns

The length of the GraphicsPath

Definition at line 3423 of file Graphics.cs.

6.11.2.20 MoveTo() [1/2]

Move the current point without tracing a segment from the previous point.

Parameters

Χ	The horizontal coordinate of the new point.
V	The vertical coordinate of the new point.

Returns

The GraphicsPath, to allow for chained calls.

Definition at line 2964 of file Graphics.cs.

6.11.2.21 MoveTo() [2/2]

```
\begin{tabular}{ll} $\tt GraphicsPath.MoveTo. ( \\ &\tt Point.p.) \end{tabular}
```

Move the current point without tracing a segment from the previous point.

Parameters

```
p The new point.
```

Returns

The GraphicsPath, to allow for chained calls.

Definition at line 2952 of file Graphics.cs.

6.11.3 Property Documentation

6.11.3.1 Segments

```
List<Segment> VectSharp.GraphicsPath.Segments = new List<Segment>() [get], [set]
```

The segments that make up the path.

Definition at line 2944 of file Graphics.cs.

The documentation for this class was generated from the following file:

• VectSharp/Graphics.cs

6.12 VectSharp.IGraphicsContext Interface Reference

This interface should be implemented by classes intended to provide graphics output capability to a Graphics object.

Public Member Functions

· void Save ()

Save the current transform state (rotation, translation, scale). This should be implemented as a LIFO stack.

• void Restore ()

Restore the previous transform state (rotation, translation, scale). This should be implemented as a LIFO stack.

void Translate (double x, double y)

Translate the coordinate system origin.

• void Rotate (double angle)

Rotate the coordinate system around the origin.

void Scale (double scaleX, double scaleY)

Scale the coordinate system with respect to the origin.

· void Transform (double a, double b, double c, double d, double e, double f)

Transform the coordinate system with the specified transformation matrix [[a, c, e], [b, d, f], [0, 0, 1]].

void FillText (string text, double x, double y)

Fill a text string using the current Font and TextBaseline.

void StrokeText (string text, double x, double y)

Stroke the outline of a text string using the current Font and TextBaseline.

• void MoveTo (double x, double y)

Change the current point without drawing a line from the previous point. If necessary, start a new figure.

• void LineTo (double x, double y)

Draw a line from the previous point to the specified point.

· void Close ()

Close the current figure.

• void Stroke ()

Stroke the current path using the current StrokeStyle, LineWidth, LineCap, LineJoin and LineDash.

void SetClippingPath ()

Set the current clipping path as the intersection of the previous clipping path and the current path.

• void SetFillStyle ((int r, int g, int b, double a) style)

Set the current FillStyle.

void SetFillStyle (Colour style)

Set the current FillStyle.

• void SetStrokeStyle ((int r, int g, int b, double a) style)

Set the current StrokeStyle.

void SetStrokeStyle (Colour style)

Set the current StrokeStyle.

void CubicBezierTo (double p1X, double p1Y, double p2X, double p2Y, double p3X, double p3Y)

Add to the current figure a cubic Bezier from the current point to a destination point, with two control points.

• void Rectangle (double x0, double y0, double width, double height)

Add a rectangle figure to the current path.

void Fill ()

Fill the current path using the current FillStyle.

· void SetLineDash (LineDash dash)

Set the current line dash pattern.

 void DrawRasterImage (int sourceX, int sourceY, int sourceWidth, int sourceHeight, double destinationX, double destinationY, double destinationWidth, double destinationHeight, RasterImage image)

Draw a raster image.

Properties

```
• double Width [get]
     Width of the graphic surface.
• double Height [get]
     Height of the graphic surface.
• Font Font [get, set]
     The current font.

    TextBaselines TextBaseline [get, set]

     The current text baseline.
• Colour FillStyle [get]
     Current colour used to fill paths.

    Colour StrokeStyle [get]

     Current colour used to stroke paths.
• double LineWidth [get, set]
     Current line width used to stroke paths.

    LineCaps LineCap [set]

     Current line cap used to stroke paths.
• LineJoins LineJoin [set]
     Current line join used to stroke paths.
• string Tag [get, set]
     The current tag. How this can be used depends on each implementation.
```

6.12.1 Detailed Description

Definition at line 1671 of file Graphics.cs.

This interface should be implemented by classes intended to provide graphics output capability to a Graphics object.

6.12.2 Member Function Documentation

6.12.2.1 Close()

```
void VectSharp.IGraphicsContext.Close ( )
```

Close the current figure.

6.12.2.2 CubicBezierTo()

Add to the current figure a cubic Bezier from the current point to a destination point, with two control points.

Parameters

p1X	The horizontal coordinate of the first control point.
p1Y	The vertical coordinate of the first control point.
p2X	The horizontal coordinate of the second control point.
p2Y	The vertical coordinate of the second control point.
рЗХ	The horizontal coordinate of the destination point.
рЗҮ	The vertical coordinate of the destination point.

6.12.2.3 DrawRasterImage()

```
void VectSharp.IGraphicsContext.DrawRasterImage (
    int sourceX,
    int sourceY,
    int sourceWidth,
    int sourceHeight,
    double destinationX,
    double destinationY,
    double destinationWidth,
    double destinationHeight,
    RasterImage image )
```

Draw a raster image.

Parameters

sourceX	The horizontal coordinate of the top-left corner of the rectangle delimiting the source area of the image.
sourceY	The vertical coordinate of the top-left corner of the rectangle delimiting the source area of the image.
sourceWidth	The width of the rectangle delimiting the source area of the image.
sourceHeight	The height of the rectangle delimiting the source area of the image.
destinationX	The horizontal coordinate of the top-left corner of the rectangle delimiting the destination area of the image.
destinationY	The vertical coordinate of the top-left corner of the rectangle delimiting the destination area of the image.
destinationWidth	The width of the rectangle delimiting the destination area of the image.
destinationHeight	The height of the rectangle delimiting the destination area of the image.
image	The image to draw.

6.12.2.4 Fill()

```
void VectSharp.IGraphicsContext.Fill ( )
```

Fill the current path using the current FillStyle.

6.12.2.5 FillText()

Fill a text string using the current Font and TextBaseline.

Parameters

text	The string to draw.
X	The horizontal coordinate of the text origin.
У	The vertical coordinate of the text origin.

6.12.2.6 LineTo()

```
void VectSharp.IGraphicsContext.LineTo ( \label{eq:context} \mbox{double } x, \mbox{double } y \; )
```

Draw a line from the previous point to the specified point.

Parameters

X	The horizontal coordinate of the point.
У	The vertical coordinate of the point.

6.12.2.7 MoveTo()

```
void VectSharp.IGraphicsContext.MoveTo ( \label{eq:context} \mbox{double } x, \mbox{double } y \mbox{)}
```

Change the current point without drawing a line from the previous point. If necessary, start a new figure.

Х	The horizontal coordinate of the point.
У	The vertical coordinate of the point.

6.12.2.8 Rectangle()

```
void VectSharp.IGraphicsContext.Rectangle ( double x0, double y0, double width, double height)
```

Add a rectangle figure to the current path.

Parameters

x0	The horizontal coordinate of the top-left corner of the rectangle.
y0	The vertical coordinate of the top-left corner of the rectangle.
width	The width of corner of the rectangle.
height	The height of corner of the rectangle.

6.12.2.9 Restore()

```
void VectSharp.IGraphicsContext.Restore ( )
```

Restore the previous transform state (rotation, translation, scale). This should be implemented as a LIFO stack.

6.12.2.10 Rotate()

Rotate the coordinate system around the origin.

Parameters

ang	gle	The angle (in radians) by which to rotate the coordinate system.	
-----	-----	--	--

6.12.2.11 Save()

```
void VectSharp.IGraphicsContext.Save ( )
```

Save the current transform state (rotation, translation, scale). This should be implemented as a LIFO stack.

6.12.2.12 Scale()

```
void VectSharp.IGraphicsContext.Scale ( \label{eq:context} \mbox{double } scaleX, \\ \mbox{double } scaleY \mbox{)}
```

Scale the coordinate system with respect to the origin.

Parameters

scaleX	The horizontal scale.
scaleY	The vertical scale.

6.12.2.13 SetClippingPath()

```
void VectSharp.IGraphicsContext.SetClippingPath ( )
```

Set the current clipping path as the intersection of the previous clipping path and the current path.

6.12.2.14 SetFillStyle() [1/2]

Set the current FillStyle.

Parameters

style A ValueTuple<Int32, Int32, Int32, Double> containing component information for the colour. For r, g, and b, range: [0, 255]; for a, range: [0, 1].

6.12.2.15 SetFillStyle() [2/2]

Set the current FillStyle.

Parameters

style The new fill style.

6.12.2.16 SetLineDash()

Set the current line dash pattern.

Parameters

```
dash The line dash pattern.
```

6.12.2.17 SetStrokeStyle() [1/2]

Set the current StrokeStyle.

Parameters

style A ValueTuple<Int32, Int32, Int32, Double> containing component information for the colour. For r, g, and b, range: [0, 255]; for a, range: [0, 1].

6.12.2.18 SetStrokeStyle() [2/2]

Set the current StrokeStyle.

Parameters

```
style The new stroke style.
```

6.12.2.19 Stroke()

```
void VectSharp.IGraphicsContext.Stroke ( )
```

Stroke the current path using the current StrokeStyle, LineWidth, LineCap, LineJoin and LineDash.

6.12.2.20 StrokeText()

```
void VectSharp.IGraphicsContext.StrokeText ( string \ text, double \ x, double \ y \ )
```

Stroke the outline of a text string using the current Font and TextBaseline.

Parameters

text	The string to draw.
Х	The horizontal coordinate of the text origin.
У	The vertical coordinate of the text origin.

6.12.2.21 Transform()

Transform the coordinate system with the specified transformation matrix [[a, c, e], [b, d, f], [0, 0, 1]].

Parameters

а	The first element of the first column.
b	The second element of the first column.
С	The first element of the second column.
d	The second element of the second column.
е	The first element of the third column.
f	The second element of the third column.

6.12.2.22 Translate()

```
void VectSharp.IGraphicsContext.Translate ( \label{eq:context} \mbox{double } x, \mbox{double } y \mbox{)}
```

Translate the coordinate system origin.

Χ	The horizontal translation.	
У	The vertical translation.	
Gánai	ated by Doxygen	

6.12.3 Property Documentation

6.12.3.1 FillStyle

```
Colour VectSharp.IGraphicsContext.FillStyle [get]
```

Current colour used to fill paths.

Definition at line 1782 of file Graphics.cs.

6.12.3.2 Font

```
Font VectSharp.IGraphicsContext.Font [get], [set]
```

The current font.

Definition at line 1727 of file Graphics.cs.

6.12.3.3 Height

```
double VectSharp.IGraphicsContext.Height [get]
```

Height of the graphic surface.

Definition at line 1681 of file Graphics.cs.

6.12.3.4 LineCap

```
LineCaps VectSharp.IGraphicsContext.LineCap [set]
```

Current line cap used to stroke paths.

Definition at line 1846 of file Graphics.cs.

6.12.3.5 LineJoin

```
LineJoins VectSharp.IGraphicsContext.LineJoin [set]
```

Current line join used to stroke paths.

Definition at line 1851 of file Graphics.cs.

6.12.3.6 LineWidth

```
double VectSharp.IGraphicsContext.LineWidth [get], [set]
```

Current line width used to stroke paths.

Definition at line 1841 of file Graphics.cs.

6.12.3.7 StrokeStyle

```
Colour VectSharp.IGraphicsContext.StrokeStyle [get]
```

Current colour used to stroke paths.

Definition at line 1799 of file Graphics.cs.

6.12.3.8 Tag

```
string VectSharp.IGraphicsContext.Tag [get], [set]
```

The current tag. How this can be used depends on each implementation.

Definition at line 1862 of file Graphics.cs.

6.12.3.9 TextBaseline

```
TextBaselines VectSharp.IGraphicsContext.TextBaseline [get], [set]
```

The current text baseline.

Definition at line 1732 of file Graphics.cs.

6.12.3.10 Width

```
double VectSharp.IGraphicsContext.Width [get]
```

Width of the graphic surface.

Definition at line 1676 of file Graphics.cs.

The documentation for this interface was generated from the following file:

VectSharp/Graphics.cs

6.13 VectSharp.MuPDFUtils.ImageURIParser Class Reference

Provides a method to parse an image URI into a page.

Static Public Member Functions

 static Func< string, bool, Page > Parser (Func< string, bool, Page > parseSVG)
 Parses an image URI into a page. This is intended to replace the default image URI interpreter in VectSharp.SVG.Parser.ParseImageURI. To do this, use something like:

6.13.1 Detailed Description

Provides a method to parse an image URI into a page.

Definition at line 29 of file ImageURIParser.cs.

6.13.2 Member Function Documentation

6.13.2.1 Parser()

```
static Func<string, bool, Page> VectSharp.MuPDFUtils.ImageURIParser.Parser ( Func< string, bool, Page> parseSVG ) \ [static]
```

Parses an image URI into a page. This is intended to replace the default image URI interpreter in VectSharp.SVG.Parser.ParseImageURI. To do this, use something like:

VectSharp.SVG.Parser.ParseImageURI = VectSharp.MuPDFUtils.ImageURIParser.Parser(VectShar

Parameters

parseSVG	A function to parse an SVG image uri into a page. You should pass
	VectSharp.SVG.Parser.ParseSVGURI as this argument.

Returns

A function to parse an image URI into a page.

Definition at line 37 of file ImageURIParser.cs.

The documentation for this class was generated from the following file:

VectSharp.MuPDFUtils/ImageURIParser.cs

6.14 VectSharp.LineDash Struct Reference

Represents instructions on how to paint a dashed line.

Public Member Functions

• LineDash (double unitsOn, double unitsOff, double phase)

Define a new line dash pattern.

Public Attributes

double UnitsOn

Length of the "on" (painted) segment.

double UnitsOff

Length of the "off" (not painted) segment.

· double Phase

Position in the dash pattern at which the line starts.

Static Public Attributes

```
    static LineDash SolidLine = new LineDash(0, 0, 0)
    A solid (not dashed) line
```

6.14.1 Detailed Description

Represents instructions on how to paint a dashed line.

Definition at line 125 of file Graphics.cs.

6.14.2 Constructor & Destructor Documentation

6.14.2.1 LineDash()

Define a new line dash pattern.

unitsOn	The length of the "on" (painted) segment.
	The length of the "off" (not painted) segment.
Generated by	The position in the dash pattern at which the line starts.

Definition at line 153 of file Graphics.cs.

6.14.3 Member Data Documentation

6.14.3.1 Phase

```
double VectSharp.LineDash.Phase
```

Position in the dash pattern at which the line starts.

Definition at line 145 of file Graphics.cs.

6.14.3.2 SolidLine

```
LineDash VectSharp.LineDash.SolidLine = new LineDash(0, 0, 0) [static]
```

A solid (not dashed) line

Definition at line 130 of file Graphics.cs.

6.14.3.3 UnitsOff

```
{\tt double\ VectSharp.LineDash.UnitsOff}
```

Length of the "off" (not painted) segment.

Definition at line 140 of file Graphics.cs.

6.14.3.4 UnitsOn

```
double VectSharp.LineDash.UnitsOn
```

Length of the "on" (painted) segment.

Definition at line 135 of file Graphics.cs.

The documentation for this struct was generated from the following file:

· VectSharp/Graphics.cs

6.15 VectSharp.Page Class Reference

Represents a Graphics object with a width and height.

Public Member Functions

• Page (double width, double height)

Create a new page.

• void Crop (Point topLeft, Size size)

Translate and resize the Page so that it displays the rectangle defined by topLeft and size .

Properties

```
double Width [get, set]

Width of the page.
double Height [get, set]

Height of the page.
Graphics Graphics [get, set]

Graphics surface of the page.
Colour Background = Colour.FromRgba(255, 255, 255, 0) [get, set]

Background colour of the page.
```

6.15.1 Detailed Description

Represents a Graphics object with a width and height.

Definition at line 47 of file Document.cs.

6.15.2 Constructor & Destructor Documentation

6.15.2.1 Page()

Create a new page.

width	The width of the page.
height	The height of the page.

Definition at line 74 of file Document.cs.

6.15.3 Member Function Documentation

6.15.3.1 Crop()

Translate and resize the Page so that it displays the rectangle defined by topLeft and size .

Parameters

topLeft	The top left corner of the area to include in the page.
size	The size of the area to include in the page.

Definition at line 88 of file Document.cs.

6.15.4 Property Documentation

6.15.4.1 Background

```
Colour VectSharp.Page.Background = Colour.FromRgba(255, 255, 255, 0) [get], [set]
```

Background colour of the page.

Definition at line 67 of file Document.cs.

6.15.4.2 Graphics

```
Graphics VectSharp.Page.Graphics [get], [set]
```

Graphics surface of the page.

Definition at line 62 of file Document.cs.

6.15.4.3 Height

```
double VectSharp.Page.Height [get], [set]
```

Height of the page.

Definition at line 57 of file Document.cs.

6.15.4.4 Width

```
double VectSharp.Page.Width [get], [set]
```

Width of the page.

Definition at line 52 of file Document.cs.

The documentation for this class was generated from the following file:

· VectSharp/Document.cs

6.16 VectSharp.SVG.Parser Class Reference

Contains methods to read an SVG image file.

Static Public Member Functions

static Page ParseSVGURI (string uri, bool ignored=false)

Parses an SVG image URI.

static Page FromString (string svgSource)

Parses SVG source into a Page containing the image represented by the code.

static Page FromFile (string fileName)

Parses an SVG image file into a Page containing the image.

• static Page FromStream (Stream svgSourceStream)

Parses an stream containing SVG source code into a Page containing the image represented by the code.

Static Public Attributes

static Func< string, bool, Page > ParseImageURI

A function that takes as input an image URI and a boolean value indicating whether the image should be interpolated, and returns a Page object containing the image. By default, this is equal to ParseSVGURI, i.e. it is only able to parse SVG images. If you wish to enable the parsing of other formats, you should install the "VectSharp.MuPDFUtils" NuGet package and enable the parser in your program by doing something like:

6.16.1 Detailed Description

Contains methods to read an SVG image file.

Definition at line 32 of file SVGParser.cs.

6.16.2 Member Function Documentation

6.16.2.1 FromFile()

Parses an SVG image file into a Page containing the image.

Parameters

fileName The pat	n to the SVG image file.
------------------	--------------------------

Returns

A Page containing the image represented by the file.

Definition at line 144 of file SVGParser.cs.

6.16.2.2 FromStream()

```
\begin{tabular}{lll} {\tt Static Page VectSharp.SVG.Parser.FromStream (} \\ {\tt Stream } \begin{tabular}{lll} {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} \\ {\tt Styson} & {\tt Styson} & {
```

Parses an stream containing SVG source code into a Page containing the image represented by the code.

Parameters

svgSourceStream	The stream containing SVG source code.

Returns

A Page containing the image represented by the svgSourceStream.

Definition at line 154 of file SVGParser.cs.

6.16.2.3 FromString()

Parses SVG source into a Page containing the image represented by the code.

Parameters

svgSource	The SVG source code.
-----------	----------------------

Returns

A Page containing the image represented by the svgSource .

Definition at line 102 of file SVGParser.cs.

6.16.2.4 ParseSVGURI()

Parses an SVG image URI.

Parameters

uri	The image URI to parse.
ignored	This value is ignored and is only needed for compatibility.

Returns

A Page containing the parsed SVG image, or null.

Definition at line 53 of file SVGParser.cs.

6.16.3 Member Data Documentation

6.16.3.1 ParselmageURI

```
Func<string, bool, Page> VectSharp.SVG.Parser.ParseImageURI [static]
```

A function that takes as input an image URI and a boolean value indicating whether the image should be interpolated, and returns a Page object containing the image. By default, this is equal to ParseSVGURI, i.e. it is only able

to parse SVG images. If you wish to enable the parsing of other formats, you should install the "VectSharp.MuP←DFUtils" NuGet package and enable the parser in your program by doing something like:

VectSharp.SVG.Parser.ParseImageURI = VectSharp.MuPDFUtils.ImageURIParser.Parser(VectSharp.

Definition at line 45 of file SVGParser.cs.

The documentation for this class was generated from the following file:

· VectSharp.SVG/SVGParser.cs

6.17 VectSharp.PDF.PDFContextInterpreter Class Reference

Contains methods to render a Document as a PDF document.

Public Types

enum TextOptions { TextOptions.SubsetFonts, TextOptions.ConvertIntoPaths }
 Defines whether the used fonts should be included in the file.

Static Public Member Functions

 static void SaveAsPDF (this Document document, string fileName, TextOptions textOption=TextOptions.SubsetFonts, bool compressStreams=true)

Save the document to a PDF file.

 static void SaveAsPDF (this Document document, Stream stream, TextOptions textOption=TextOptions.SubsetFonts, bool compressStreams=true)

Save the document to a PDF stream.

6.17.1 Detailed Description

Contains methods to render a Document as a PDF document.

Definition at line 573 of file PDFContext.cs.

6.17.2 Member Enumeration Documentation

6.17.2.1 TextOptions

enum VectSharp.PDF.PDFContextInterpreter.TextOptions [strong]

Defines whether the used fonts should be included in the file.

Enumerator

SubsetFonts	Embeds subsetted font files containing only the glyphs for the characters that have been	Ī
	used.	
ConvertIntoPaths	Does not embed any font file and converts all text items into paths.]

Definition at line 761 of file PDFContext.cs.

6.17.3 Member Function Documentation

6.17.3.1 SaveAsPDF() [1/2]

Save the document to a PDF stream.

Parameters

document	The Document to save.
stream	The stream to which the PDF data will be written.
textOption	Defines whether the used fonts should be included in the file.
compressStreams	Indicates whether the streams in the PDF file should be compressed.

Definition at line 783 of file PDFContext.cs.

6.17.3.2 SaveAsPDF() [2/2]

Save the document to a PDF file.

Parameters

document	The Document to save.
fileName	The full path to the file to save. If it exists, it will be overwritten.
textOption	Defines whether the used fonts should be included in the file.
compressStreams	Indicates whether the streams in the PDF file should be compressed.

Definition at line 750 of file PDFContext.cs.

The documentation for this class was generated from the following file:

VectSharp.PDF/PDFContext.cs

6.18 VectSharp.Point Struct Reference

Represents a point relative to an origin in the top-left corner.

Public Member Functions

```
• Point (double x, double y)
```

Create a new Point.

• double Modulus ()

Computes the modulus of the vector represented by the Point.

• Point Normalize ()

Normalises a Point.

Public Attributes

double X

Horizontal (x) coordinate, measured to the right of the origin.

double Y

Vertical (y) coordinate, measured to the bottom of the origin.

6.18.1 Detailed Description

Represents a point relative to an origin in the top-left corner.

Definition at line 956 of file Graphics.cs.

6.18.2 Constructor & Destructor Documentation

6.18.2.1 Point()

```
\begin{tabular}{ll} \mbox{VectSharp.Point.Point (} \\ \mbox{double $x$,} \\ \mbox{double $y$ )} \end{tabular}
```

Create a new Point.

Parameters

X	The horizontal (x) coordinate.
У	The vertical (y) coordinate.

Definition at line 973 of file Graphics.cs.

6.18.3 Member Function Documentation

6.18.3.1 Modulus()

```
double VectSharp.Point.Modulus ( )
```

Computes the modulus of the vector represented by the Point.

Returns

The modulus of the vector represented by the Point.

Definition at line 983 of file Graphics.cs.

6.18.3.2 Normalize()

```
Point VectSharp.Point.Normalize ( )
```

Normalises a Point.

Returns

The normalised Point.

Definition at line 992 of file Graphics.cs.

6.18.4 Member Data Documentation

6.18.4.1 X

```
double VectSharp.Point.X
```

Horizontal (x) coordinate, measured to the right of the origin.

Definition at line 961 of file Graphics.cs.

6.18.4.2 Y

```
double VectSharp.Point.Y
```

Vertical (y) coordinate, measured to the bottom of the origin.

Definition at line 966 of file Graphics.cs.

The documentation for this struct was generated from the following file:

· VectSharp/Graphics.cs

6.19 VectSharp.Raster.Raster Class Reference

Contains methods to render a page to a PNG image.

Static Public Member Functions

- static void SaveAsPNG (this Page page, string fileName, double scale=1)

 Render the page to a PNG file.
- static void SaveAsPNG (this Page page, Stream stream, double scale=1)

 Render the page to a PNG stream.

6.19.1 Detailed Description

Contains methods to render a page to a PNG image.

Definition at line 27 of file Raster.cs.

6.19.2 Member Function Documentation

6.19.2.1 SaveAsPNG() [1/2]

Render the page to a PNG stream.

Parameters

page	The Page to render.
stream	The stream to which the PNG data will be written.
scale	The scale to be used when rasterising the page. This will determine the width and height of the
	image file. Generated by Doxygen

Definition at line 59 of file Raster.cs.

6.19.2.2 SaveAsPNG() [2/2]

Render the page to a PNG file.

Parameters

page	The Page to render.
fileName	The full path to the file to save. If it exists, it will be overwritten.
scale	The scale to be used when rasterising the page. This will determine the width and height of the image file.

Definition at line 36 of file Raster.cs.

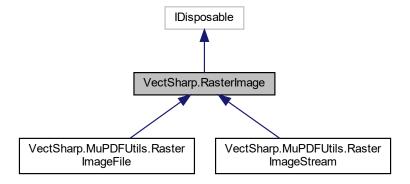
The documentation for this class was generated from the following file:

· VectSharp.Raster/Raster.cs

6.20 VectSharp.RasterImage Class Reference

Represents a raster image, created from raw pixel data. Consider using the derived classes included in the NuGet package "VectSharp.MuPDFUtils" if you need to load a raster image from a file or a Stream.

Inheritance diagram for VectSharp.RasterImage:



Public Member Functions

RasterImage (IntPtr pixelData, int width, int height, bool hasAlpha, bool interpolate)

Creates a new RasterImage instance from the specified pixel data in RGB or RGBA format.

· RasterImage (ref DisposableIntPtr pixelData, int width, int height, bool hasAlpha, bool interpolate)

Creates a new RasterImage instance from the specified pixel data in RGB or RGBA format.

• RasterImage (byte[] data, int width, int height, PixelFormats pixelFormat, bool interpolate)

Creates a new RasterImage instance copying the specified pixel data.

void ClearPNGCache ()

Disposes the PNGStream. Also useful if is is necessary to regenerate it, e.g. because the underlying image pixel data has changed.

• void Dispose ()

Properties

• IntPtr ImageDataAddress [get]

The memory address of the image pixel data.

IDisposable DataHolder [get]

An IDisposable that will be disposed when the image is disposed.

• string ld [get]

A univocal identifier for this image.

• bool HasAlpha [get]

Determines whether the image has an alpha channel.

int Width [get]

The width in pixels of the image.

• int Height [get]

The height in pixels of the image.

• bool Interpolate [get]

Determines whether the image should be interpolated when it is resized.

• MemoryStream PNGStream [get]

Contains a representation of the image in PNG format. Generated at the first access and cached until the image is disposed.

6.20.1 Detailed Description

Represents a raster image, created from raw pixel data. Consider using the derived classes included in the NuGet package "VectSharp.MuPDFUtils" if you need to load a raster image from a file or a Stream.

Definition at line 98 of file RasterImage.cs.

6.20.2 Constructor & Destructor Documentation

6.20.2.1 RasterImage() [1/3]

Creates a new RasterImage instance from the specified pixel data in RGB or RGBA format.

Parameters

pixelData	The address of the image pixel data in RGB or RGBA format.
width	The width in pixels of the image.
height	The height in pixels of the image.
hasAlpha	true if the image is in RGBA format, false if it is in RGB format.
interpolate	Whether the image should be interpolated when it is resized.

Definition at line 170 of file RasterImage.cs.

6.20.2.2 RasterImage() [2/3]

```
VectSharp.RasterImage.RasterImage (
    ref DisposableIntPtr pixelData,
    int width,
    int height,
    bool hasAlpha,
    bool interpolate )
```

Creates a new RasterImage instance from the specified pixel data in RGB or RGBA format.

Parameters

pixelData	The address of the image pixel data in RGB or RGBA format wrapped in a DisposableIntPtr. The RasterImage will take ownership of this memory.
width	The width in pixels of the image.
height	The height in pixels of the image.
hasAlpha	true if the image is in RGBA format, false if it is in RGB format.
interpolate	Whether the image should be interpolated when it is resized.

Definition at line 188 of file RasterImage.cs.

6.20.2.3 RasterImage() [3/3]

Creates a new RasterImage instance copying the specified pixel data.

Parameters

data	The image pixel data that will be copied.
------	---

Parameters

width	The width in pixels of the image.
height	The height in pixels of the image.
pixelFormat	The format of the pixel data.
interpolate	Whether the image should be interpolated when it is resized.

Definition at line 207 of file RasterImage.cs.

6.20.3 Member Function Documentation

6.20.3.1 ClearPNGCache()

```
void VectSharp.RasterImage.ClearPNGCache ( )
```

Disposes the PNGStream. Also useful if is is necessary to regenerate it, e.g. because the underlying image pixel data has changed.

Definition at line 261 of file RasterImage.cs.

6.20.4 Property Documentation

6.20.4.1 DataHolder

```
IDisposable VectSharp.RasterImage.DataHolder [get]
```

An IDisposable that will be disposed when the image is disposed.

Definition at line 108 of file RasterImage.cs.

6.20.4.2 HasAlpha

```
bool VectSharp.RasterImage.HasAlpha [get]
```

Determines whether the image has an alpha channel.

Definition at line 118 of file RasterImage.cs.

6.20.4.3 Height

```
int VectSharp.RasterImage.Height [get]
```

The height in pixels of the image.

Definition at line 128 of file RasterImage.cs.

6.20.4.4 ld

```
string VectSharp.RasterImage.Id [get]
```

A univocal identifier for this image.

Definition at line 113 of file RasterImage.cs.

6.20.4.5 ImageDataAddress

```
IntPtr VectSharp.RasterImage.ImageDataAddress [get]
```

The memory address of the image pixel data.

Definition at line 103 of file RasterImage.cs.

6.20.4.6 Interpolate

```
bool VectSharp.RasterImage.Interpolate [get]
```

Determines whether the image should be interpolated when it is resized.

Definition at line 133 of file RasterImage.cs.

6.20.4.7 PNGStream

```
MemoryStream VectSharp.RasterImage.PNGStream [get]
```

Contains a representation of the image in PNG format. Generated at the first access and cached until the image is disposed.

Definition at line 140 of file Rasterlmage.cs.

6.20.4.8 Width

int VectSharp.RasterImage.Width [get]

The width in pixels of the image.

Definition at line 123 of file RasterImage.cs.

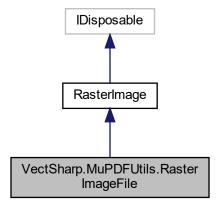
The documentation for this class was generated from the following file:

VectSharp/RasterImage.cs

6.21 VectSharp.MuPDFUtils.RasterImageFile Class Reference

A RasterImage created from a file.

Inheritance diagram for VectSharp.MuPDFUtils.RasterImageFile:



Public Member Functions

• RasterImageFile (string fileName, int pageNumber=0, double scale=1, bool alpha=true, bool interpolate=true)

Creates a new RasterImage from the specified file.

Additional Inherited Members

6.21.1 Detailed Description

A RasterImage created from a file.

Definition at line 28 of file RasterImages.cs.

6.21.2 Constructor & Destructor Documentation

6.21.2.1 RasterImageFile()

Creates a new RasterImage from the specified file.

Parameters

fileName	The path to the file containing the image.
pageNumber	The number of the page in the file from which the image should be created, starting at 0. Only useful for multi-page formats, such as PDF.
scale	The scale factor at which to render the image.
alpha	A boolean value indicating whether transparency (alpha) data from the image should be preserved or not.
interpolate	A boolean value indicating whether the image should be interpolated when it is resized or not.

Definition at line 38 of file RasterImages.cs.

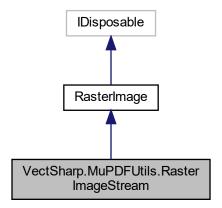
The documentation for this class was generated from the following file:

VectSharp.MuPDFUtils/RasterImages.cs

6.22 VectSharp.MuPDFUtils.RasterImageStream Class Reference

A RasterImage created from a stream.

Inheritance diagram for VectSharp.MuPDFUtils.RasterImageStream:



Public Member Functions

• RasterImageStream (Stream imageStream, InputFileTypes fileType, int pageNumber=0, double scale=1, bool alpha=true, bool interpolate=true)

Creates a new Rasterlmage from the specified stream.

• RasterImageStream (IntPtr imageAddress, long imageLength, InputFileTypes fileType, int pageNumber=0, double scale=1, bool alpha=true, bool interpolate=true)

Creates a new Rasterlmage from the specified stream.

Additional Inherited Members

6.22.1 Detailed Description

A RasterImage created from a stream.

Definition at line 69 of file RasterImages.cs.

6.22.2 Constructor & Destructor Documentation

6.22.2.1 RasterImageStream() [1/2]

Creates a new RasterImage from the specified stream.

Parameters

imageStream	The stream containing the image data.
fileType	The type of the image contained in the stream.
pageNumber	The number of the page in the file from which the image should be created, starting at 0. Only useful for multi-page formats, such as PDF.
scale	The scale factor at which to render the image.
alpha	A boolean value indicating whether transparency (alpha) data from the image should be preserved or not.
interpolate	A boolean value indicating whether the image should be interpolated when it is resized or not.

Definition at line 80 of file RasterImages.cs.

6.22.2.2 RasterImageStream() [2/2]

Creates a new RasterImage from the specified stream.

Parameters

imageAddress	A pointer to the address where the image data is contained.
imageLength	The length in bytes of the image data.
fileType	The type of the image contained in the stream.
pageNumber	The number of the page in the file from which the image should be created, starting at 0. Only useful for multi-page formats, such as PDF.
scale	The scale factor at which to render the image.
alpha	A boolean value indicating whether transparency (alpha) data from the image should be preserved or not.
interpolate	A boolean value indicating whether the image should be interpolated when it is resized or not.

Definition at line 148 of file RasterImages.cs.

The documentation for this class was generated from the following file:

• VectSharp.MuPDFUtils/RasterImages.cs

6.23 VectSharp.Canvas.RenderAction Class Reference

Represents a light-weight rendering action.

Public Types

enum ActionTypes { ActionTypes.Path, ActionTypes.Text, ActionTypes.RasterImage }

Types of rendering actions.

Public Member Functions

void BringToFront ()

Brings the render action to the front of the rendering queue. This method can only be invoked after the output has been fully initialised.

void SendToBack ()

Brings the render action to the back of the rendering queue. This method can only be invoked after the output has been fully initialised.

Static Public Member Functions

 static RenderAction PathAction (Geometry geometry, Pen stroke, IBrush fill, Avalonia.Matrix transform, Geometry clippingPath, string tag=null)

Creates a new RenderAction representing a Path.

• static RenderAction TextAction (FormattedText text, IBrush fill, Avalonia.Matrix transform, Geometry clippingPath, string tag=null)

Creates a new RenderAction representing text.

 static RenderAction ImageAction (string imageId, Avalonia.Rect sourceRect, Avalonia.Rect destinationRect, Avalonia.Matrix transform, Geometry clippingPath, string tag=null)

Creates a new RenderAction representing an image.

Properties

• ActionTypes ActionType [get]

Type of the rendering action.

• Geometry Geometry [get, set]

Geometry that needs to be rendered (null if the action type is ActionTypes.Text). If you change this, you need to invalidate the Parent's visual.

• FormattedText Text [get, set]

Text that needs to be rendered (null if the action type is ActionTypes.Path). If you change this, you need to invalidate the Parent's visual.

• Pen Stroke [get, set]

Rendering stroke (null if the action type is ActionTypes.Text or if the rendered action only has a Fill). If you change this, you need to invalidate the Parent's visual.

• IBrush Fill [get, set]

Rendering fill (null if the rendered action only has a Stroke). If you change this, you need to invalidate the Parent's visual.

• string lmageld [get, set]

Univocal identifier of the image that needs to be drawn.

• Avalonia.? Rect ImageSource [get, set]

The source rectangle of the image.

Avalonia.? Rect ImageDestination [get, set]

The destination rectangle of the image.

• Geometry ClippingPath [get, set]

The current clipping path.

- Avalonia.Matrix InverseTransform = Avalonia.Matrix.Identity [get]
 Inverse transformation matrix.
- Avalonia.Matrix Transform [get, set]

Rendering transformation matrix. If you change this, you need to invalidate the Parent's visual.

• string Tag [get, set]

A tag to access the RenderAction.

• Avalonia.Controls.Canvas Parent [get]

The container of this RenderAction.

Events

- EventHandler < Avalonia.Input.PointerEventArgs > PointerEnter
 Raised when the pointer enters the area covered by the RenderAction.
- EventHandler < Avalonia.Input.PointerEventArgs > PointerLeave
 Raised when the pointer leaves the area covered by the RenderAction.
- EventHandler < Avalonia.Input.PointerPressedEventArgs > PointerPressed
 Raised when the pointer is pressed while over the area covered by the RenderAction.
- $\bullet \ \ \mathsf{EventHandler} < \ \mathsf{Avalonia}. \\ \mathsf{Input}. \\ \mathsf{PointerReleasedEventArgs} > \\ \mathsf{PointerReleaseDventArgs} > \\ \mathsf{Pointe$

Raised when the pointer is released after a PointerPressed event.

6.23.1 Detailed Description

Represents a light-weight rendering action.

Definition at line 985 of file AvaloniaContext.cs.

6.23.2 Member Enumeration Documentation

6.23.2.1 ActionTypes

enum VectSharp.Canvas.RenderAction.ActionTypes [strong]

Types of rendering actions.

Enumerator

Path	The render action represents a path object.
Text	The render action represents a text object.
Rasterlmage	The render action represents a raster image.

Definition at line 990 of file AvaloniaContext.cs.

6.23.3 Member Function Documentation

6.23.3.1 BringToFront()

```
void VectSharp.Canvas.RenderAction.BringToFront ( )
```

Brings the render action to the front of the rendering queue. This method can only be invoked after the output has been fully initialised.

Definition at line 1211 of file AvaloniaContext.cs.

6.23.3.2 ImageAction()

Creates a new RenderAction representing an image.

Parameters

imageId	The univocal identifier of the image to draw.
sourceRect	The source rectangle of the image.
destinationRect	The destination rectangle of the image.
transform	The transform that will be applied to the image.
clippingPath	The clipping path.
tag	A tag to access the RenderAction. If this is null this RenderAction is not visible in the hit test.

Returns

Definition at line 1194 of file AvaloniaContext.cs.

6.23.3.3 PathAction()

```
IBrush fill,
Avalonia.Matrix transform,
Geometry clippingPath,
string tag = null ) [static]
```

Creates a new RenderAction representing a Path.

Parameters

geometry	The geometry to be rendered.
stroke	The stroke of the path (can be null).
fill	The fill of the path (can be null).
transform	The transform that will be applied to the path.
clippingPath	The clipping path.
tag	A tag to access the RenderAction. If this is null this RenderAction is not visible in the hit test.

Returns

A new RenderAction representing a Path.

Definition at line 1147 of file AvaloniaContext.cs.

6.23.3.4 SendToBack()

```
void VectSharp.Canvas.RenderAction.SendToBack ( )
```

Brings the render action to the back of the rendering queue. This method can only be invoked after the output has been fully initialised.

Definition at line 1219 of file AvaloniaContext.cs.

6.23.3.5 TextAction()

Creates a new RenderAction representing text.

Parameters

text	The text to be rendered.
fill	The fill of the text (can be null).
transform	The transform that will be applied to the text.
clippingPath	The clipping path.
Generated by Doxyg	^{en} A tag to access the RenderAction. If this is null this RenderAction is not visible in the hit test.

Returns

Definition at line 1170 of file AvaloniaContext.cs.

6.23.4 Property Documentation

6.23.4.1 ActionType

```
ActionTypes VectSharp.Canvas.RenderAction.ActionType [get]
```

Type of the rendering action.

Definition at line 1011 of file AvaloniaContext.cs.

6.23.4.2 ClippingPath

```
Geometry VectSharp.Canvas.RenderAction.ClippingPath [get], [set]
```

The current clipping path.

Definition at line 1051 of file AvaloniaContext.cs.

6.23.4.3 Fill

```
IBrush VectSharp.Canvas.RenderAction.Fill [get], [set]
```

Rendering fill (null if the rendered action only has a Stroke). If you change this, you need to invalidate the Parent's visual.

Definition at line 1031 of file AvaloniaContext.cs.

6.23.4.4 Geometry

```
Geometry VectSharp.Canvas.RenderAction.Geometry [get], [set]
```

Geometry that needs to be rendered (null if the action type is ActionTypes.Text). If you change this, you need to invalidate the Parent's visual.

Definition at line 1016 of file AvaloniaContext.cs.

6.23.4.5 ImageDestination

Avalonia.? Rect VectSharp.Canvas.RenderAction.ImageDestination [get], [set]

The destination rectangle of the image.

Definition at line 1046 of file AvaloniaContext.cs.

6.23.4.6 Imageld

```
string VectSharp.Canvas.RenderAction.ImageId [get], [set]
```

Univocal identifier of the image that needs to be drawn.

Definition at line 1036 of file AvaloniaContext.cs.

6.23.4.7 ImageSource

```
Avalonia.? Rect VectSharp.Canvas.RenderAction.ImageSource [get], [set]
```

The source rectangle of the image.

Definition at line 1041 of file AvaloniaContext.cs.

6.23.4.8 InverseTransform

Avalonia.Matrix VectSharp.Canvas.RenderAction.InverseTransform = Avalonia.Matrix.Identity
[qet]

Inverse transformation matrix.

Definition at line 1058 of file AvaloniaContext.cs.

6.23.4.9 Parent

Avalonia.Controls.Canvas VectSharp.Canvas.RenderAction.Parent [get]

The container of this RenderAction.

Definition at line 1083 of file AvaloniaContext.cs.

6.23.4.10 Stroke

```
Pen VectSharp.Canvas.RenderAction.Stroke [get], [set]
```

Rendering stroke (null if the action type is ActionTypes.Text or if the rendered action only has a Fill). If you change this, you need to invalidate the Parent's visual.

Definition at line 1026 of file AvaloniaContext.cs.

6.23.4.11 Tag

```
string VectSharp.Canvas.RenderAction.Tag [get], [set]
```

A tag to access the RenderAction.

Definition at line 1076 of file AvaloniaContext.cs.

6.23.4.12 Text

```
FormattedText VectSharp.Canvas.RenderAction.Text [get], [set]
```

Text that needs to be rendered (null if the action type is ActionTypes.Path). If you change this, you need to invalidate the Parent's visual.

Definition at line 1021 of file AvaloniaContext.cs.

6.23.4.13 Transform

```
Avalonia.Matrix VectSharp.Canvas.RenderAction.Transform [get], [set]
```

Rendering transformation matrix. If you change this, you need to invalidate the Parent's visual.

Definition at line 1063 of file AvaloniaContext.cs.

6.23.5 Event Documentation

6.23.5.1 PointerEnter

Raised when the pointer enters the area covered by the RenderAction.

Definition at line 1094 of file AvaloniaContext.cs.

6.23.5.2 PointerLeave

EventHandler<Avalonia.Input.PointerEventArgs> VectSharp.Canvas.RenderAction.PointerLeave

Raised when the pointer leaves the area covered by the RenderAction.

Definition at line 1099 of file AvaloniaContext.cs.

6.23.5.3 PointerPressed

 $\label{lem:convex} \mbox{EventHandler}. \mbox{Avalonia.Input.PointerPressedEventArgs} > \mbox{VectSharp.Canvas.RenderAction.Pointer} \leftarrow \mbox{Pressed}$

Raised when the pointer is pressed while over the area covered by the RenderAction.

Definition at line 1104 of file AvaloniaContext.cs.

6.23.5.4 PointerReleased

 $\label{lem:convex} \begin{tabular}{ll} Event Handler < Avalonia. Input. Pointer Released Event Args > Vect Sharp. Canvas. Render Action. Pointer \leftarrow Released \\ \end{tabular}$

Raised when the pointer is released after a PointerPressed event.

Definition at line 1109 of file AvaloniaContext.cs.

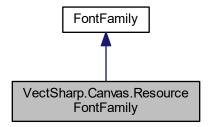
The documentation for this class was generated from the following file:

· VectSharp.Canvas/AvaloniaContext.cs

6.24 VectSharp.Canvas.ResourceFontFamily Class Reference

Represents a FontFamily created from a resource stream.

Inheritance diagram for VectSharp.Canvas.ResourceFontFamily:



Public Member Functions

• ResourceFontFamily (System.IO.Stream resourceStream, string resourceName)

Create a new ResourceFontFamily from the specified resourceStream containing a TTF file, passing the specified resourceName to the Avalonia.Media.FontFamily.Parse(string, Uri) method.

Additional Inherited Members

6.24.1 Detailed Description

Represents a FontFamily created from a resource stream.

Definition at line 31 of file AvaloniaContext.cs.

6.24.2 Constructor & Destructor Documentation

6.24.2.1 ResourceFontFamily()

Create a new ResourceFontFamily from the specified *resourceStream* containing a TTF file, passing the specified *resourceName* to the Avalonia.Media.FontFamily.Parse(string, Uri) method.

Parameters

resourceStream A	A resource stream containing a TTF file.
	The name of the embedded resource, which will be parsed using Avalonia.Media.FontFamily.Parse(string, Uri).

Definition at line 40 of file AvaloniaContext.cs.

The documentation for this class was generated from the following file:

· VectSharp.Canvas/AvaloniaContext.cs

6.25 VectSharp.Segment Class Reference

Represents a segment as part of a GraphicsPath.

Public Member Functions

• abstract Segment Clone ()

Creates a copy of the Segment.

• abstract double Measure (Point previousPoint)

Computes the length of the Segment.

• abstract Point GetPointAt (Point previousPoint, double position)

Gets the point on the Segment at the specified (relative) position).

• abstract Point GetTangentAt (Point previousPoint, double position)

Gets the tangent to the Segment at the specified (relative) position).

Properties

```
• abstract SegmentType Type [get]
```

The type of the Segment.

• Point[] Points [get]

The points used to define the Segment.

• virtual Point Point [get]

The end point of the Segment.

6.25.1 Detailed Description

Represents a segment as part of a GraphicsPath.

Definition at line 1060 of file Graphics.cs.

6.25.2 Member Function Documentation

6.25.2.1 Clone()

```
abstract Segment VectSharp.Segment.Clone ( ) [pure virtual]
```

Creates a copy of the Segment.

Returns

A copy of the Segment.

6.25.2.2 GetPointAt()

Gets the point on the Segment at the specified (relative) position).

Parameters

previousPoint	The point from which the Segment starts (i.e. the endpoint of the previous Segment).
position	The relative position on the Segment (0 is the start of the Segment, 1 is the end of the Segment).

Returns

The point at the specified position.

6.25.2.3 GetTangentAt()

Gets the tangent to the Segment at the specified (relative) position).

Parameters

previousPoint	The point from which the Segment starts (i.e. the endpoint of the previous Segment).
position	The relative position on the Segment (0 is the start of the Segment, 1 is the end of the Segment).

Returns

The tangent to the point at the specified position.

6.25.2.4 Measure()

Computes the length of the Segment.

Parameters

previousPoint	The point from which the Segment starts (i.e. the endpoint of the previous Segment).
---------------	--

Returns

The length of the segment.

6.25.3 Property Documentation

6.25.3.1 Point

```
virtual Point VectSharp.Segment.Point [get]
```

The end point of the Segment.

Definition at line 1076 of file Graphics.cs.

6.25.3.2 Points

```
Point [] VectSharp.Segment.Points [get]
```

The points used to define the Segment.

Definition at line 1071 of file Graphics.cs.

6.25.3.3 Type

```
abstract SegmentType VectSharp.Segment.Type [get]
```

The type of the Segment.

Definition at line 1066 of file Graphics.cs.

The documentation for this class was generated from the following file:

· VectSharp/Graphics.cs

6.26 VectSharp.Size Struct Reference

Represents the size of an object.

Public Member Functions

• Size (double width, double height)

Create a new Size.

Public Attributes

· double Width

Width of the object.

double Height

Height of the object.

6.26.1 Detailed Description

Represents the size of an object.

Definition at line 1002 of file Graphics.cs.

6.26.2 Constructor & Destructor Documentation

6.26.2.1 Size()

Create a new Size.

Parameters

width	The width of the object.
height	The height of the object.

Definition at line 1019 of file Graphics.cs.

6.26.3 Member Data Documentation

6.26.3.1 Height

```
double VectSharp.Size.Height
```

Height of the object.

Definition at line 1012 of file Graphics.cs.

6.26.3.2 Width

```
double VectSharp.Size.Width
```

Width of the object.

Definition at line 1007 of file Graphics.cs.

The documentation for this struct was generated from the following file:

· VectSharp/Graphics.cs

6.27 VectSharp.SVG.SVGContextInterpreter Class Reference

Contains methods to render a Page as an SVG file.

Public Types

 enum TextOptions { TextOptions.EmbedFonts, TextOptions.SubsetFonts, TextOptions.ConvertIntoPaths, TextOptions.DoNotEmbed }

Defines whether the used fonts should be included in the file.

Static Public Member Functions

- static void SaveAsSVG (this Page page, string fileName, TextOptions textOption=TextOptions.SubsetFonts)

 Render the page to an SVG file.
- static void SaveAsSVG (this Page page, Stream stream, TextOptions textOption=TextOptions.SubsetFonts)

 Render the page to an SVG stream.

6.27.1 Detailed Description

Contains methods to render a Page as an SVG file.

Definition at line 848 of file SVGContext.cs.

6.27.2 Member Enumeration Documentation

6.27.2.1 TextOptions

enum VectSharp.SVG.SVGContextInterpreter.TextOptions [strong]

Defines whether the used fonts should be included in the file.

Enumerator

EmbedFonts	Embeds the full font files.
SubsetFonts	Embeds subsetted font files containing only the glyphs for the characters that have been
	used.
ConvertIntoPaths	Does not embed any font file and converts all text items into paths.
DoNotEmbed	Does not embed any font file, but still encodes text items as such.

Definition at line 868 of file SVGContext.cs.

6.27.3 Member Function Documentation

6.27.3.1 SaveAsSVG() [1/2]

Render the page to an SVG stream.

Parameters

page	The Page to render.
stream	The stream to which the SVG data will be written.
textOption	Defines whether the used fonts should be included in the file.

Definition at line 897 of file SVGContext.cs.

6.27.3.2 SaveAsSVG() [2/2]

Render the page to an SVG file.

Parameters

page	The Page to render.
fileName	The full path to the file to save. If it exists, it will be overwritten.
textOption	Defines whether the used fonts should be included in the file.

Definition at line 857 of file SVGContext.cs.

The documentation for this class was generated from the following file:

• VectSharp.SVG/SVGContext.cs

6.28 VectSharp.TrueTypeFile Class Reference

Represents a font file in TrueType format. Reference: http://stevehanov.ca/blog/?id=143, https://developer.apple.com/fonts/TrueType-Reference-Manual/, https://docs.⇔microsoft.com/en-us/typography/opentype/spec/

Classes

struct Bearings

Represents the left- and right-side bearings of a glyph.

struct TrueTypePoint

Represents a point in a TrueType path description.

struct VerticalMetrics

Represents the maximum height above and depth below the baseline of a glyph.

Public Member Functions

· void Destroy ()

Remove this TrueType file from the cache, clear the tables and release the FontStream. Only call this when the actual file that was used to create this object needs to be changed!

TrueTypeFile SubsetFont (string charactersToInclude, bool consolidateAt32=false, Dictionary< char, char > outputEncoding=null)

Create a subset of the TrueType file, containing only the glyphs for the specified characters.

string GetFontFamilyName ()

Obtains the font family name from the TrueType file.

string GetFontName ()

Obtains the PostScript font name from the TrueType file.

ushort GetFirstCharIndex ()

Returns the index of the first character glyph represented by the font.

• ushort GetLastCharIndex ()

Returns the index of the last character glyph represented by the font.

bool IsItalic ()

Determines whether the typeface is Italic or Oblique or not.

• bool IsOblique ()

Determines whether the typeface is Oblique or not.

• bool IsBold ()

Determines whether the typeface is Bold or not.

bool IsFixedPitch ()

Determines whether the typeface is fixed-pitch (aka monospaces) or not.

• bool IsSerif ()

Determines whether the typeface is serifed or not.

bool IsScript ()

Determines whether the typeface is a script typeface or not.

int GetGlyphIndex (char glyph)

Determines the index of the glyph corresponding to a certain character.

• TrueTypePoint[][] GetGlyphPath (int glyphIndex, double size)

Get the path that describes the shape of a glyph.

TrueTypePoint[][] GetGlyphPath (char glyph, double size)

Get the path that describes the shape of a glyph.

double Get1000EmGlyphWidth (char glyph)

Computes the advance width of a glyph, in thousandths of em unit.

double Get1000EmGlyphWidth (int glyphIndex)

Computes the advance width of a glyph, in thousandths of em unit.

double Get1000EmAscent ()

Computes the font ascent, in thousandths of em unit.

double Get1000EmDescent ()

Computes the font descent, in thousandths of em unit.

• double Get1000EmYMax ()

Computes the maximum height over the baseline of the font, in thousandths of em unit.

• double Get1000EmYMin ()

Computes the maximum depth below the baseline of the font, in thousandths of em unit.

double Get1000EmXMax ()

Computes the maximum distance to the right of the glyph origin of the font, in thousandths of em unit.

double Get1000EmXMin ()

Computes the maximum distance to the left of the glyph origin of the font, in thousandths of em unit.

Bearings Get1000EmGlyphBearings (char glyph)

Computes the left- and right- side bearings of a glyph, in thousandths of em unit.

VerticalMetrics Get1000EmGlyphVerticalMetrics (char glyph)

Computes the vertical metrics of a glyph, in thousandths of em unit.

Properties

• Stream FontStream [get]

A stream pointing to the TrueType file source (either on disk or in memory). Never dispose this stream directly; if you really need to, call Destroy instead.

6.28.1 Detailed Description

Represents a font file in TrueType format. Reference: http://stevehanov.ca/blog/?id=143, https://developer.apple.com/fonts/TrueType-Reference-Manual/, https://docs.⇔microsoft.com/en-us/typography/opentype/spec/

Definition at line 30 of file TrueType.cs.

6.28.2 Member Function Documentation

6.28.2.1 Destroy()

```
void VectSharp.TrueTypeFile.Destroy ( )
```

Remove this TrueType file from the cache, clear the tables and release the FontStream. Only call this when the actual file that was used to create this object needs to be changed!

Definition at line 52 of file TrueType.cs.

6.28.2.2 Get1000EmAscent()

```
double VectSharp.TrueTypeFile.Get1000EmAscent ( )
```

Computes the font ascent, in thousandths of em unit.

Returns

The font ascent in thousandths of em unit.

Definition at line 2061 of file TrueType.cs.

6.28.2.3 Get1000EmDescent()

```
double VectSharp.TrueTypeFile.Get1000EmDescent ( )
```

Computes the font descent, in thousandths of em unit.

Returns

The font descent in thousandths of em unit.

Definition at line 2071 of file TrueType.cs.

6.28.2.4 Get1000EmGlyphBearings()

```
Bearings VectSharp.TrueTypeFile.Get1000EmGlyphBearings ( {\tt char}\ glyph\ )
```

Computes the left- and right- side bearings of a glyph, in thousandths of em unit.

Parameters

glyph The glyph whose bearings are to be computed.

Returns

The left- and right- side bearings of the glyph in thousandths of em unit

Definition at line 2153 of file TrueType.cs.

6.28.2.5 Get1000EmGlyphVerticalMetrics()

```
\label{thm:condition} \mbox{VerticalMetrics VectSharp.TrueTypeFile.Get1000EmGlyphVerticalMetrics (} \\ \mbox{char } glyph \mbox{ )}
```

Computes the vertical metrics of a glyph, in thousandths of em unit.

Parameters

Returns

The vertical metrics of a glyph, in thousandths of em unit.

Definition at line 2201 of file TrueType.cs.

6.28.2.6 Get1000EmGlyphWidth() [1/2]

```
double VectSharp.TrueTypeFile.Get1000EmGlyphWidth ( {\tt char} \  \, glyph \, )
```

Computes the advance width of a glyph, in thousandths of em unit.

Parameters

glyph	The glyph whose advance width is to be computed.

Returns

The advance width of the glyph in thousandths of em unit.

Definition at line 2032 of file TrueType.cs.

6.28.2.7 Get1000EmGlyphWidth() [2/2]

```
double VectSharp.TrueTypeFile.Get1000EmGlyphWidth ( int \ glyphIndex \ )
```

Computes the advance width of a glyph, in thousandths of em unit.

Parameters

glyphIndex	The index of the glyph whose advance width is to be computed.
------------	---

Returns

The advance width of the glyph in thousandths of em unit.

Definition at line 2050 of file TrueType.cs.

6.28.2.8 Get1000EmXMax()

```
double VectSharp.TrueTypeFile.Get1000EmXMax ( )
```

Computes the maximum distance to the right of the glyph origin of the font, in thousandths of em unit.

Returns

The maximum distance to the right of the glyph origin of the font in thousandths of em unit.

Definition at line 2098 of file TrueType.cs.

6.28.2.9 Get1000EmXMin()

```
double VectSharp.TrueTypeFile.Get1000EmXMin ( )
```

Computes the maximum distance to the left of the glyph origin of the font, in thousandths of em unit.

Returns

The maximum distance to the left of the glyph origin of the font in thousandths of em unit.

Definition at line 2107 of file TrueType.cs.

6.28.2.10 Get1000EmYMax()

```
double VectSharp.TrueTypeFile.Get1000EmYMax ( )
```

Computes the maximum height over the baseline of the font, in thousandths of em unit.

Returns

The maximum height over the baseline of the font in thousandths of em unit.

Definition at line 2080 of file TrueType.cs.

6.28.2.11 Get1000EmYMin()

```
double VectSharp.TrueTypeFile.Get1000EmYMin ( )
```

Computes the maximum depth below the baseline of the font, in thousandths of em unit.

Returns

The maximum depth below the baseline of the font in thousandths of em unit.

Definition at line 2089 of file TrueType.cs.

6.28.2.12 GetFirstCharIndex()

```
ushort VectSharp.TrueTypeFile.GetFirstCharIndex ( )
```

Returns the index of the first character glyph represented by the font.

Returns

The index of the first character glyph represented by the font.

Definition at line 1870 of file TrueType.cs.

6.28.2.13 GetFontFamilyName()

```
string VectSharp.TrueTypeFile.GetFontFamilyName ( )
```

Obtains the font family name from the TrueType file.

Returns

The font family name, if available; null otherwise.

Definition at line 1823 of file TrueType.cs.

6.28.2.14 GetFontName()

```
string VectSharp.TrueTypeFile.GetFontName ( )
```

Obtains the PostScript font name from the TrueType file.

Returns

The PostScript font name, if available; null otherwise.

Definition at line 1851 of file TrueType.cs.

6.28.2.15 GetGlyphIndex()

Determines the index of the glyph corresponding to a certain character.

Parameters

glyph	The character whose glyph is sought.
-------	--------------------------------------

Returns

The index of the glyph in the TrueType file.

Definition at line 1960 of file TrueType.cs.

6.28.2.16 GetGlyphPath() [1/2]

Get the path that describes the shape of a glyph.

Parameters

glyph	The glyph whose path is sought.
size	The font size to be used for the font coordinates.

Returns

An array of contours, each of which is itself an array of TrueType points.

Definition at line 2022 of file TrueType.cs.

6.28.2.17 GetGlyphPath() [2/2]

Get the path that describes the shape of a glyph.

Parameters

glyphIndex	The index of the glyph whose path is sought.
size	The font size to be used for the font coordinates.

Returns

An array of contours, each of which is itself an array of TrueType points.

Definition at line 2011 of file TrueType.cs.

6.28.2.18 GetLastCharIndex()

```
ushort VectSharp.TrueTypeFile.GetLastCharIndex ( )
```

Returns the index of the last character glyph represented by the font.

Returns

The index of the last character glyph represented by the font.

Definition at line 1881 of file TrueType.cs.

6.28.2.19 IsBold()

```
bool VectSharp.TrueTypeFile.IsBold ( )
```

Determines whether the typeface is Bold or not.

Returns

A bool indicating whether the typeface is Bold or not

Definition at line 1915 of file TrueType.cs.

6.28.2.20 IsFixedPitch()

```
bool VectSharp.TrueTypeFile.IsFixedPitch ( )
```

Determines whether the typeface is fixed-pitch (aka monospaces) or not.

Returns

A bool indicating whether the typeface is fixed-pitch (aka monospaces) or not.

Definition at line 1926 of file TrueType.cs.

6.28.2.21 Isltalic()

```
bool VectSharp.TrueTypeFile.IsItalic ( )
```

Determines whether the typeface is Italic or Oblique or not.

Returns

A bool indicating whether the typeface is Italic or Oblique or not.

Definition at line 1893 of file TrueType.cs.

6.28.2.22 IsOblique()

```
bool VectSharp.TrueTypeFile.IsOblique ( )
```

Determines whether the typeface is Oblique or not.

Returns

A bool indicating whether the typeface is Oblique or not.

Definition at line 1904 of file TrueType.cs.

6.28.2.23 IsScript()

```
bool VectSharp.TrueTypeFile.IsScript ( )
```

Determines whether the typeface is a script typeface or not.

Returns

A bool indicating whether the typeface is a script typeface or not.

Definition at line 1948 of file TrueType.cs.

6.28.2.24 IsSerif()

```
bool VectSharp.TrueTypeFile.IsSerif ( )
```

Determines whether the typeface is serifed or not.

Returns

A bool indicating whether the typeface is serifed or not.

Definition at line 1937 of file TrueType.cs.

6.28.2.25 SubsetFont()

Create a subset of the TrueType file, containing only the glyphs for the specified characters.

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Parameters

charactersToInclude	A string containing the characters for which the glyphs should be included.
consolidateAt32	If true, the character map is rearranged so that the included glyphs start at the unicode U+0032 control point.
outputEncoding	If <i>consolidateAt32</i> is true, entries will be added to this dictionary mapping the original characters to the new map (that starts at U+0033).

Returns

Definition at line 544 of file TrueType.cs.

6.28.3 Property Documentation

6.28.3.1 FontStream

Stream VectSharp.TrueTypeFile.FontStream [get]

A stream pointing to the TrueType file source (either on disk or in memory). Never dispose this stream directly; if you really need to, call Destroy instead.

Definition at line 46 of file TrueType.cs.

The documentation for this class was generated from the following file:

VectSharp/TrueType.cs

6.29 VectSharp.TrueTypeFile.TrueTypePoint Struct Reference

Represents a point in a TrueType path description.

Public Attributes

double X

The horizontal coordinate of the point.

· double Y

The vertical coordinate of the point.

• bool IsOnCurve

Whether the point is a point on the curve, or a control point of a quadratic Bezier curve.

6.29.1 Detailed Description

Represents a point in a TrueType path description.

Definition at line 1337 of file TrueType.cs.

6.29.2 Member Data Documentation

6.29.2.1 IsOnCurve

bool VectSharp.TrueTypeFile.TrueTypePoint.IsOnCurve

Whether the point is a point on the curve, or a control point of a quadratic Bezier curve.

Definition at line 1352 of file TrueType.cs.

6.29.2.2 X

double VectSharp.TrueTypeFile.TrueTypePoint.X

The horizontal coordinate of the point.

Definition at line 1342 of file TrueType.cs.

6.29.2.3 Y

double VectSharp.TrueTypeFile.TrueTypePoint.Y

The vertical coordinate of the point.

Definition at line 1347 of file TrueType.cs.

The documentation for this struct was generated from the following file:

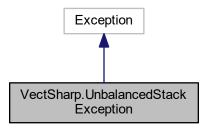
VectSharp/TrueType.cs

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6.30 VectSharp.UnbalancedStackException Class Reference

The exception that is thrown when an unbalanced graphics state stack occurs.

Inheritance diagram for VectSharp.UnbalancedStackException:



6.30.1 Detailed Description

The exception that is thrown when an unbalanced graphics state stack occurs.

Definition at line 1903 of file Graphics.cs.

The documentation for this class was generated from the following file:

· VectSharp/Graphics.cs

6.31 VectSharp.TrueTypeFile.VerticalMetrics Struct Reference

Represents the maximum heigth above and depth below the baseline of a glyph.

Public Attributes

• int YMin

The maximum depth below the baseline of the glyph.

• int YMax

The maximum height above the baseline of the glyph.

6.31.1 Detailed Description

Represents the maximum heigth above and depth below the baseline of a glyph.

Definition at line 2170 of file TrueType.cs.

6.31.2 Member Data Documentation

6.31.2.1 YMax

int VectSharp.TrueTypeFile.VerticalMetrics.YMax

The maximum height above the baseline of the glyph.

Definition at line 2180 of file TrueType.cs.

6.31.2.2 YMin

 $\verb|int VectSharp.TrueTypeFile.VerticalMetrics.YMin|\\$

The maximum depth below the baseline of the glyph.

Definition at line 2175 of file TrueType.cs.

The documentation for this struct was generated from the following file:

• VectSharp/TrueType.cs

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