HOWTO: Create a Custom Rendered Annotation on the Web (Legacy Web Controls)

Legacy Controls NOTICE

This article references our legacy Web Forms Web Viewing controls (WebImageViewer, WebAnnotationViewer, WebThumbnailViewer). It is preserved for archival purposes, but support strongly recommends using our modern HTML5 web controls: WebDocumentViewer, WebDocumentThumbnailer instead.

INFO: WebDocumentViewer Whitepaper - Getting Started With Web Viewing

Main Article

A custom rendered application differs from a custom annotation because you are instructing the annotation how to draw the annotation. To do this, set up the annotation in the same fashion as a custom annotation type HOWTO: Custom Web Annotations (Legacy Web Controls)

Once the steps of the other article have been completed, we will need to make a custom renderer. For this example I will make a VennDiagramAnnotation. In the static constructor of the overloaded page class, an association between renderer and annotation type (creation described in previous article) needs to be established:

C#

```
nnotationRenderers.Add(typeof(VennDiagramData), new VennDiagramRenderer());
```

VB.NET

```
nnotationRenderers.Add(GetType(VennDiagramData), New VennDiagramRenderer())
```

The VennDiagramRenderer class will then need to be defined. Select a preexisting annotation type and use its rendering engine. The classes RectangleRenderingEngine and TextRenderingEngine should cover the majority of possible annotations. For Venn Diagrams RectangleRenderingEngine is best:

C#

```
public class VennDiagramRenderer : RectangleRenderingEngine { public VennDiagramRenderer() :
base() { } float OverlapPercentage = .33f; public override void
RenderAnnotation(Atalasoft.Annotate.AnnotationData annotation, RenderEnvironment e) {
Graphics g = e.Graphics; RectangleF r = e.Graphics.VisibleClipBounds; Rectangle left = new
Rectangle((int)r.X, (int)r.Y, (int)(r.Width * (.5+OverlapPercentage/2)), (int)r.Height);
Rectangle right = new Rectangle((int)(r.Width * (.5-OverlapPercentage/2)), left.Y,
left.Width, left.Height); g.FillEllipse(new SolidBrush(Color.FromArgb(127,Color.Red)), left);
g.FillEllipse(new SolidBrush(Color.FromArgb(127,Color.Blue)), right); } }
```

VB.NET

```
ublic Class VennDiagramRenderer Inherits RectangleRenderingEngine Public Sub New()
MyBase.New() End Sub Private OverlapPercentage As Single = 0.33 Public Overloads Overrides
Sub RenderAnnotation(ByVal annotation As Atalasoft.Annotate.AnnotationData, ByVal e As
RenderEnvironment) Dim g As Graphics = e.Graphics Dim r As RectangleF =
e.Graphics.VisibleClipBounds Dim left As New Rectangle(CInt(r.X), CInt(r.Y), CInt((r.Width *
(0.5 + OverlapPercentage / 2))), CInt(r.Height)) Dim right As New Rectangle(CInt((r.Width *
(0.5 - OverlapPercentage / 2))), left.Y, left.Width, left.Height) g.FillEllipse(New
SolidBrush(Color.FromArgb(127, Color.Red)), left) g.FillEllipse(New
SolidBrush(Color.FromArgb(127, Color.Blue)), right) End Sub End Class
```

This renderer will use the .NET graphics object to draw a set of objects to produce the desired annotation.

Original Article

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Last Update

2026-11-06 - TD - (Minor Fix on Intro and outdated link)

Atalasoft Knowledge Base
https://www.atalasoft.com/kb2/KB/50217/HOWTO-Create-a-Custom-Rendered-Annot...