

# Basic Reference -- General Watermark

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## API References

### Enum: REHoriAlighment

Indicates where the watermark should be placed (in horizontal) relative to the container (page).

	Description
Left	The watermark aligned to the left of the container.
Middle	The watermark aligned to the center of the container.
Right	The watermark aligned to the right of the container.

### Enum: REVertAlighment

Indicates where the watermark should be placed (in vertical) relative to the container (page).

	Description
Top	The watermark aligned to the top of the container.
Middle	The watermark aligned to the center of the container.
Bottom	The watermark aligned to the bottom of the container.

### Enum: RETextAlighment

Indicates the alignment for multi-lines in a text source.

	Description
Left	All lines in text source are left alignment.
Center	All lines in text source are center alignment.
Right	All lines in text source are right alignment.

## Enum: REScaleMode

Indicates how to scale the (image or text) source to fit the watermark's size.

	Description
None	Do not scale the source.
FitWidth	Scale the source to fit the width of the container and keep the width-height ratio unchanged.
FitHeight	Scale the source to fit the height of the container and keep the width-height ratio unchanged.
ScaleToFill	Scale the source to exactly fill the container; that the width-height ratio may be changed.
AspectFill	Scale the source to fill the container and some parts may be clipped. The width-height ratio is unchanged.
AspectFit	Scale the source to fit the container and some parts may be left empty. The width-height ratio is unchanged.

## Abstract Class: REWatermarkSource

Abstract class for a source of the watermark.

## Class: REWatermarkSourceText

Indicates a text source for the watermark.

	Type	Description
Text	String	Text content of the watermark.
EnableMultiLine	Bool	A flag to indicate if support multiline or not. If false, all “end of line” characters in the property Text would be ignored. Default: false
TextFont	System.Drawing.Font	Font and font size of the text content.
TextColor	System.Drawing.Color	Color of the text content.
TextAlign	RETextAlignment	Alignment for multilines. This property is ignored if EnableMultiLine is false. Default: Center

## Class: REWatermarkSourceImage

Indicates an image source for the watermark.

	Type	Description
Image	System.Drawing.Bitmap	A raster image.

## Class: REWatermark

Indicate a watermark in a container (page).

	Type	Description
RelativeWidth	Float	Relative width (in percentage) of the watermark to the container (page). Valid Range: 0 ~ 100 Default: 100
RelativeHeight	Float	Relative height (in percentage) of the watermark to the container (page). Valid Range: 0 ~ 100 Default: 100
HoriAlign	REHoriAlignment	Horizontal alignment of the watermark in the container (page). This property is ignored while RelativeWidth is 100. Default: Middle
VertAlign	REVertAlignment	Vertical alignment of the watermark in the container (page). This property is ignored while RelativeHeight is 100. Default: Middle
Rotate	float	The angle that the source is rotated to in the watermark. Positive value for CCW; and negative for CW. Unit: degree Default: 0 Common Values: 0, 45, -45 etc.
ScaleMode	REScaleMode	Scale mode of the source while fill/fit the source to the watermark. Default: None
Opacity	float	Opacity factor for the watermark. Valid Range: 0.0 ~ 1.0 Default: 1.0F (no transparency)
IsAbovePage	Bool	Indicates if this watermark is above the page or below the page. Default: true
IsTile	Bool	To activate this property, you need set ScaleMode = None  If true, the watermark fill the whole page area.
TileIntervalHori	Float	Define horizontal space between two watermark sources.

		<p>The value is % of the width of the source.</p> <p>0: no space between two sources. 10: 10% of the source width 200: 200% of the source width</p>
TileIntervalVert	Float	<p>Define vertical space between two watermark sources.</p> <p>The value is % of the height of the source.</p> <p>0: no space between two sources. 10: 10% of the source height 200: 200% of the source height</p>

## Interface: IWatermarkMgr

Method
<code>REWatermark GetWatermark(int pageIndex);</code>
Get watermark setting by the specified page index.

## Class: REWatermarkMgr

Method
<code>public REWatermarkMgr(REWatermark first, REWatermark oddPages, REWatermark evenPages)</code>
<code>REWatermark GetWatermark(int pageIndex);</code>
Get watermark setting by the specified page index.

## Samples

### Sample 1: create a watermark with text source

```
C#
// create a text source
REWatermarkSourceText textSource = new REWatermarkSourceText("Confidential",
    new Font("Arial", 12F, FontStyle.Regular), Color.Red);
// do not allow multiline text content
textSource.EnableMultiLine = false;

// initial a watermark with text source
REWatermark watermark = new REWatermark(textSource);
// set watermark width to 90% of the width of the container (a page)
watermark.RelativeWidth = 90F;
// set horizontal alignment in the container
watermark.HoriAlign = REHoriAlignment.Middle;
// set watermark height to 90% of the height of the container (a page)
watermark.RelativeHeight = 90F;
// set vertical alignment in the container
watermark.VertAlign = REVertAlignment.Middle;
// set the rotate of the source to 45 degree
watermark.Rotate = 45F;
// set the scale mode to None
watermark.ScaleMode = REScaleMode.None;
// set opacity
watermark.Opacity = 0.8F;
// watermark is above the container (page)
watermark.IsAbovePage = true;
```

### Sample 2: create a watermark with image source

```
C#
// create an image source from an image file (eg. .bmp, .png, .jpg etc.)
Bitmap bitmap = new Bitmap(@"...");
REWatermarkSourceImage imgSource = new REWatermarkSourceImage(bitmap);

// initial a watermark with image source
REWatermark watermark = new REWatermark(imgSource);
// set watermark width to 80% of the width of the container (a page)
watermark.RelativeWidth = 80F;
// set horizontal alignment in the container
watermark.HoriAlign = REHoriAlignment.Middle;
// set watermark height to 80% of the height of the container (a page)
```

```
watermark.RelativeHeight = 80F;  
// set vertical alignment in the container  
watermark.VertAlign = REVertAlignment.Middle;  
// set the rotate of the source to 45 degree  
watermark.Rotate = 45F;  
// set the scale mode to None  
watermark.ScaleMode = REScaleMode.None;  
// set opacity  
watermark.Opacity = 0.8F;  
// watermark is above the container (page)  
watermark.IsAbovePage = true;
```