Namespace HwpxIO.Creator

Classes

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Class BorderBuilder

Namespace: [HwpxIO.Creator](#)

Assembly: HwpxIO.Creator.dll

```
public class BorderBuilder
```

Inheritance

[object](#) ← BorderBuilder

Inherited Members

[object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) ,
[object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#) , [object.ToString()](#)

Constructors

BorderBuilder(HwpxCreator)

```
public BorderBuilder(HwpxCreator creator)
```

Parameters

creator [HwpxCreator](#)

Methods

Background(Color, float)

배경색

```
public BorderBuilder Background(Color backgroundColor, float alpha = 1)
```

Parameters

backgroundColor [Color](#)

alpha float⧉

Returns

BorderBuilder

Background(string, float)

배경색

```
public BorderBuilder Background(string backgroundColor, float alpha = 1)
```

Parameters

backgroundColor string⧉

alpha float⧉

Returns

BorderBuilder

Bottom(BorderLine)

```
public BorderBuilder Bottom(BorderLine line)
```

Parameters

line BorderLine

Returns

BorderBuilder

Bottom(BorderLineType?, BorderThickness?, Color)

```
public BorderBuilder Bottom(BorderLineType? lineType, BorderThickness? thickness, Color color)
```

Parameters

lineType [BorderLineType](#)?

thickness [BorderThickness](#)?

color [Color⧉](#)

Returns

[BorderBuilder](#)

Bottom(BorderLineType?, BorderThickness?, string)

```
public BorderBuilder Bottom(BorderLineType? lineType, BorderThickness? thickness, string color)
```

Parameters

lineType [BorderLineType](#)?

thickness [BorderThickness](#)?

color [string⧉](#)

Returns

[BorderBuilder](#)

Diagonal(BorderLine, bool)

대각선

```
public BorderBuilder Diagonal(BorderLine line, bool reverse = false)
```

Parameters

line BorderLine

reverse bool⧉

Returns

[BorderBuilder](#)

Diagonal(BorderLineType?, BorderThickness?, Color, bool)

대각선

```
public BorderBuilder Diagonal(BorderLineType? lineType, BorderThickness? thickness, Color color
```

Parameters

lineType BorderLineType?

thickness BorderThickness?

color Color⧉

reverse bool⧉

Returns

[BorderBuilder](#)

Diagonal(BorderLineType?, BorderThickness?, string, bool)

대각선

```
public BorderBuilder Diagonal(BorderLineType? lineType, BorderThickness? thickness, string colo
```

Parameters

lineType BorderLineType?

thickness BorderThickness?

color string☒

reverse bool☒

Returns

[BorderBuilder](#)

Left(BorderLine)

```
public BorderBuilder Left(BorderLine line)
```

Parameters

line [BorderLine](#)

Returns

[BorderBuilder](#)

Left(BorderLineType?, BorderThickness?, Color)

```
public BorderBuilder Left(BorderLineType? lineType, BorderThickness? thickness, Color color)
```

Parameters

lineType [BorderLineType](#)?

thickness [BorderThickness](#)?

color [Color](#)☒

Returns

[BorderBuilder](#)

Left(BorderLineType?, BorderThickness?, string)

```
public BorderBuilder Left(BorderLineType? lineType, BorderThickness? thickness, string color =
```

Parameters

lineType [BorderLineType]?

thickness [BorderThickness]?

color [string]⬀

Returns

[BorderBuilder]

Rectangle(BorderLine)

사각형

```
public BorderBuilder Rectangle(BorderLine line)
```

Parameters

line [BorderLine]

Returns

[BorderBuilder]

Rectangle(BorderLine, BorderLine, BorderLine, BorderLine)

사격형

```
public BorderBuilder Rectangle(BorderLine left, BorderLine right, BorderLine top, BorderLine bo
```

Parameters

left BorderLine

right BorderLine

top BorderLine

bottom BorderLine

Returns

BorderBuilder

Rectangle(BorderLineType?, BorderThickness?, Color)

사각형

```
public BorderBuilder Rectangle(BorderLineType? lineType, BorderThickness? thickness, Color colo
```

Parameters

lineType BorderLineType?

thickness BorderThickness?

color Color⍐

Returns

BorderBuilder

Rectangle(BorderLineType?, BorderThickness?, string)

사각형

```
public BorderBuilder Rectangle(BorderLineType? lineType, BorderThickness? thickness, string co
```

Parameters

lineType BorderLineType?

thickness [BorderThickness](#)?

color [string⬏](#)

Returns

[BorderBuilder](#)

Right(BorderLine)

```
public BorderBuilder Right(BorderLine line)
```

Parameters

line [BorderLine](#)

Returns

[BorderBuilder](#)

Right(BorderLineType?, BorderThickness?, Color)

```
public BorderBuilder Right(BorderLineType? lineType, BorderThickness? thickness, Color color)
```

Parameters

lineType [BorderLineType](#)?

thickness [BorderThickness](#)?

color [Color⬏](#)

Returns

[BorderBuilder](#)

Right(BorderLineType?, BorderThickness?, string)

```
public BorderBuilder Right(BorderLineType? lineType, BorderThickness? thickness, string color =
```

Parameters

`lineType` [BorderLineType](#)?

`thickness` [BorderThickness](#)?

`color` [string⧉](#)

Returns

[BorderBuilder](#)

Top(BorderLine)

```
public BorderBuilder Top(BorderLine line)
```

Parameters

`line` [BorderLine](#)

Returns

[BorderBuilder](#)

Top(BorderLineType?, BorderThickness?, Color)

```
public BorderBuilder Top(BorderLineType? lineType, BorderThickness? thickness, Color color)
```

Parameters

`lineType` [BorderLineType](#)?

`thickness` [BorderThickness](#)?

color [Color](#)⧉

Returns

[BorderBuilder](#)

Top(BorderLineType?, BorderThickness?, string)

```
public BorderBuilder Top(BorderLineType? lineType, BorderThickness? thickness, string color =
```

Parameters

lineType [BorderLineType](#)?

thickness [BorderThickness](#)?

color [string](#)⧉

Returns

[BorderBuilder](#)

Class BorderLine

Namespace: HwpxIO.Creator

Assembly: HwpxIO.Creator.dll

```
public class BorderLine
```

Inheritance

object ← BorderLine

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() ,
object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Properties

Color

```
public string Color { get; set; }
```

Property Value

string

LineType

```
public BorderLineType LineType { get; set; }
```

Property Value

BorderLineType

Thickness

```
public BorderThickness Thickness { get; set; }
```

Property Value

[BorderThickness](#)

Methods

Create(BorderLineType, BorderThickness, Color)

```
public static BorderLine Create(BorderLineType lineType, BorderThickness thickness, Color color
```

Parameters

lineType [BorderLineType](#)

thickness [BorderThickness](#)

color [Color⬏](#)

Returns

[BorderLine](#)

Create(BorderLineType, BorderThickness, string)

```
public static BorderLine Create(BorderLineType lineType, BorderThickness thickness, string col
```

Parameters

lineType [BorderLineType](#)

thickness [BorderThickness](#)

color [string⬏](#)

Returns

[BorderLine](#)

Create(BorderThickness, Color)

굵기, 색상을 지정하여 (실선) 테두리를 생성한다.

```
public static BorderLine Create(BorderThickness thickness, Color color)
```

Parameters

`thickness` [BorderThickness](#)

`color` [Color⧉](#)

Returns

[BorderLine](#)

Create(BorderThickness, string)

굵기, 색상을 지정하여 (실선) 테두리를 생성한다.

```
public static BorderLine Create(BorderThickness thickness, string color = "#000000")
```

Parameters

`thickness` [BorderThickness](#)

`color` [string⧉](#)

Returns

[BorderLine](#)

Empty()

선이 없는 테두리를 생성한다.

```
public static BorderLine Empty()
```

Returns

[BorderLine](#)

Class HwpxCreator

Namespace: HwpxIO.Creator
Assembly: HwpxIO.Creator.dll

```
public class HwpxCreator
```

Inheritance

object ← HwpxCreator

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() ,
object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

HwpxCreator()

```
public HwpxCreator()
```

HwpxCreator(HwpxDocument)

```
public HwpxCreator(HwpxDocument hwpxDocument)
```

Parameters

hwpxDocument HwpxDocument

Properties

Document

생성된 HwpxDocument 객체를 반환합니다.

```
public HwpxDocument Document { get; }
```

Property Value

[HwpxDocument](#)

PageHeight

```
public long PageHeight { get; }
```

Property Value

[long⬈](#)

PageWidth

```
public long PageWidth { get; }
```

Property Value

[long⬈](#)

Methods

AddPage()

새로운 페이지 추가

```
public HwpxCreator AddPage()
```

Returns

[HwpxCreator](#)

AddParagraph(Paragraph, Action<Paragraph>)

문단 추가

```
public HwpxCreator AddParagraph(Paragraph paragraph, Action<Paragraph> paragraphAction = null)
```

Parameters

paragraph [Paragraph](#)

paragraphAction [Action](#)<[Paragraph](#)>

Returns

[HwpxCreator](#)

AddParagraph(RunAbstractBuilder, Action<Paragraph>)

문단 추가

```
public HwpxCreator AddParagraph(RunAbstractBuilder builder, Action<Paragraph> paragraphAction =
```

Parameters

builder [RunAbstractBuilder](#)

paragraphAction [Action](#)<[Paragraph](#)>

Returns

[HwpxCreator](#)

Picture(string)

```
public PictureBuilder Picture(string path)
```

Parameters

path [string↗](#)

Returns

[PictureBuilder](#)

SetDefaults()

```
public HwpxCreatorDefaults SetDefaults()
```

Returns

[HwpxCreatorDefaults](#)

SetPageSetting()

페이지 용기 크기, 여백, 방향, 머리말, 꼬리말 등을 설정합니다.

```
public HwpxCreatorPageSetting SetPageSetting()
```

Returns

[HwpxCreatorPageSetting](#)

Table()

테이블 추가

```
public TableBuilder Table()
```

Returns

[TableBuilder](#)

Table(int, int)

테이블 추가

```
public TableBuilder Table(int rowCount, int colCount)
```

Parameters

rowCount int⧉

colCount int⧉

Returns

[TableBuilder](#)

Text()

텍스트 추가

```
public TextBuilder Text()
```

Returns

[TextBuilder](#)

Text(string)

텍스트 추가

```
public TextBuilder Text(string text)
```

Parameters

text string⧉

Returns

[TextBuilder](#)

Class HwpxCreatorDefaults

Namespace: HwpxIO.Creator

Assembly: HwpxIO.Creator.dll

```
public class HwpxCreatorDefaults
```

Inheritance

object ← HwpxCreatorDefaults

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() ,
object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

HwpxCreatorDefaults(HwpxCreator)

```
public HwpxCreatorDefaults(HwpxCreator creator)
```

Parameters

creator HwpxCreator

Methods

FontName(string)

기본 폰트를 지정한다.

```
public HwpxCreatorDefaults FontName(string fontName)
```

Parameters

fontName string

Returns

[HwpxCreatorDefaults](#)

FontSize(int)

기본 폰트 크기를 지정한다.

```
public HwpxCreatorDefaults FontSize(int fontSize)
```

Parameters

`fontSize` [int⧉](#)

Returns

[HwpxCreatorDefaults](#)

LineColor(Color)

기본 테두리 선 색상을 지정한다.

```
public HwpxCreatorDefaults LineColor(Color color)
```

Parameters

`color` [Color⧉](#)

Returns

[HwpxCreatorDefaults](#)

LineColor(string)

기본 테두리 선 색상을 지정한다.

```
public HwpxCreatorDefaults LineColor(string borderColor)
```

Parameters

borderColor string⍈

Returns

[HwpxCreatorDefaults](#)

LineThickness(BorderThickness)

기본 테두리 선 굵기를 지정한다.

```
public HwpxCreatorDefaults LineThickness(BorderThickness borderThickness)
```

Parameters

borderThickness [BorderThickness](#)

Returns

[HwpxCreatorDefaults](#)

LineType(BorderLineType)

기본 테두리 선 종류를 지정한다.

```
public HwpxCreatorDefaults LineType(BorderLineType borderLineType)
```

Parameters

borderLineType [BorderLineType](#)

Returns

[HwpxCreatorDefaults](#)

Class HwpxCreatorPageSetting

Namespace: HwpxIO.Creator

Assembly: HwpxIO.Creator.dll

```
public class HwpxCreatorPageSetting
```

Inheritance

object ← HwpxCreatorPageSetting

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

HwpxCreatorPageSetting(HwpxCreator)

```
public HwpxCreatorPageSetting(HwpxCreator creator)
```

Parameters

creator HwpxCreator

Methods

Footer(Paragraph)

꼬리말 설정

```
public HwpxCreatorPageSetting Footer(Paragraph paragraph)
```

Parameters

paragraph Paragraph

Returns

HwpxCreatorPageSetting

Footer(Paragraphs)

꼬리말 설정

```
public HwpxCreatorPageSetting Footer(Paragraphs paragraphs)
```

Parameters

paragraphs Paragraphs

Returns

HwpxCreatorPageSetting

Header(Paragraph)

머리말 설정

```
public HwpxCreatorPageSetting Header(Paragraph paragraph)
```

Parameters

paragraph Paragraph

Returns

HwpxCreatorPageSetting

Header(Paragraphs)

머리말 설정

```
public HwpxCreatorPageSetting Header(Paragraphs paragraphs)
```

Parameters

paragraphs [Paragraphs](#)

Returns

[HwpxCreatorPageSetting](#)

Margin(long, long, long, long, long, long, long)

마진 설정 (HWPUNIT)

```
public HwpxCreatorPageSetting Margin(long left, long right, long top, long bottom, long header
```

Parameters

left [long⤢](#)

　왼쪽

right [long⤢](#)

　오른쪽

top [long⤢](#)

　위쪽

bottom [long⤢](#)

　아래쪽

header [long⤢](#)

　머리말

footer [long⤢](#)

　꼬리말

gutter long↗

    제본여백

Returns

[HwpxCreatorPageSetting](#)

MarginFromCentimeter(float, float, float, float, float, float, float)

마진 설정 (센치미터)

```
public HwpxCreatorPageSetting MarginFromCentimeter(float left, float right, float top, float bo
```

Parameters

left float↗

    왼쪽

right float↗

    오른쪽

top float↗

    위쪽

bottom float↗

    아래쪽

header float↗

    머리말

footer float↗

    꼬리말

gutter float↗

제본여백

Returns

[HwpxCreatorPageSetting](#)

Orientation(OrientationType)

용지 방향 설정

```
public HwpxCreatorPageSetting Orientation(OrientationType orientation = OrientationType.Portrai
```

Parameters

`orientation` [OrientationType](#)

Returns

[HwpxCreatorPageSetting](#)

Size(PredefinedPaperSizes)

용지 크기 설정 (미리 정의된 용지 크기)

```
public HwpxCreatorPageSetting Size(PredefinedPaperSizes paperSizes)
```

Parameters

`paperSizes` [PredefinedPaperSizes](#)

Returns

[HwpxCreatorPageSetting](#)

Size(long, long)

용지 크기 설정 (HWPUNIT)

```
public HwpxCreatorPageSetting Size(long width, long height)
```

Parameters

width long⤢

height long⤢

Returns

HwpxCreatorPageSetting

SizeFromCentimeter(float, float)

용지 크기 설정 (센치미터)

```
public HwpxCreatorPageSetting SizeFromCentimeter(float width, float height)
```

Parameters

width float⤢

height float⤢

Returns

HwpxCreatorPageSetting

Class Paragraph

Namespace:

```
public class Paragraph
```

Inheritance

object ← Paragraph

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

Paragraph(HwpxCreator, PType)

```
public Paragraph(HwpxCreator creator, PType pType)
```

Parameters

`creator` HwpxCreator

`pType` PType

Paragraph(HwpxCreator, Func<Paragraph, object>)

```
public Paragraph(HwpxCreator creator, Func<Paragraph, object> addFunc)
```

Parameters

`creator` HwpxCreator

`addFunc` Func<Paragraph, object>

Methods

AddContent(RunAbstractBuilder)

```
public Paragraph AddContent(RunAbstractBuilder builder)
```

Parameters

`builder` [RunAbstractBuilder](#)

Returns

[Paragraph](#)

AddTo()

```
public Paragraph AddTo()
```

Returns

[Paragraph](#)

Alignment(HorizontalAlignment)

```
public Paragraph Alignment(HorizontalAlignment horizontal)
```

Parameters

`horizontal` [HorizontalAlignment](#)

Returns

[Paragraph](#)

Empty(HwpxCreator)

```
public static Paragraph Empty(HwpxCreator creator)
```

Parameters

creator [HwpxCreator](#)

Returns

[Paragraph](#)

From(RunAbstractBuilder, Func<Paragraph, object>)

```
public static Paragraph From(RunAbstractBuilder builder, Func<Paragraph, object> addFunc = null
```

Parameters

builder [RunAbstractBuilder](#)

addFunc [Func](#)<[Paragraph](#), [object](#)>

Returns

[Paragraph](#)

Heading(ParagraphHeadingType, int, string)

```
public Paragraph Heading(ParagraphHeadingType heading, int level = 0, string idRef = "0")
```

Parameters

heading [ParagraphHeadingType](#)

level [int](#)

idRef [string](#)

Returns

[Paragraph](#)

IndentFromCentimeter(float)

```
public Paragraph IndentFromCentimeter(float left)
```

Parameters

left [float](#)

Returns

[Paragraph](#)

IndentFromPt(int)

```
public Paragraph IndentFromPt(int left)
```

Parameters

left [int](#)

Returns

[Paragraph](#)

LineSpacing(int)

줄간격 설정

```
public Paragraph LineSpacing(int lineSpacing = 160)
```

Parameters

lineSpacing [int](#)

Returns

Paragraph

Margin(long)

```
public Paragraph Margin(long left)
```

Parameters

`left` long☐

Returns

Paragraph

Class Paragraphs

Namespace: HwpxIO.Creator

Assembly: HwpxIO.Creator.dll

```
public class Paragraphs
```

Inheritance

object ← Paragraphs

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

Paragraphs(HwpxCreator, params Paragraph[])

```
public Paragraphs(HwpxCreator creator, params Paragraph[] paragraphs)
```

Parameters

creator HwpxCreator

paragraphs Paragraph[]

Methods

From(params Paragraph[])

```
public static Paragraphs From(params Paragraph[] paragraphs)
```

Parameters

paragraphs Paragraph[]

Returns

[Paragraphs](#)

Class PictureBuilder

Namespace: HwpxIO.Creator

Assembly: HwpxIO.Creator.dll

```
public class PictureBuilder : RunAbstractBuilder
```

Inheritance

object ← RunAbstractBuilder ← PictureBuilder

Inherited Members

RunAbstractBuilder.addFunc , RunAbstractBuilder.builded , RunAbstractBuilder.buildValue ,
RunAbstractBuilder.pTypeRunBuilder , RunAbstractBuilder.ToParagraph() , RunAbstractBuilder.AddTo() ,
object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() ,
object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

PictureBuilder(HwpxCreator, Func<Paragraph, object>)

```
public PictureBuilder(HwpxCreator creator, Func<Paragraph, object> addFunc = null)
```

Parameters

`creator` HwpxCreator

`addFunc` Func<Paragraph, object>

Methods

DoBuild()

```
protected override PTypeRun DoBuild()
```

Returns

Image(byte[], string)

```
public PictureBuilder Image(byte[] bytes, string extension = null)
```

Parameters

bytes [byte](#)[]

extension [string](#)

Returns

[PictureBuilder](#)

Image(Image)

```
public PictureBuilder Image(Image image)
```

Parameters

image [Image](#)

Returns

[PictureBuilder](#)

Image(string)

```
public PictureBuilder Image(string path)
```

Parameters

path [string](#)

Returns

[PictureBuilder](#)

Lock(bool)

```
public PictureBuilder Lock(bool locked = true)
```

Parameters

locked [bool](#)

Returns

[PictureBuilder](#)

PositionCenterOfPage()

페이지의 가운데에 위치시킨다. (글자처럼 취급 안함)

```
public PictureBuilder PositionCenterOfPage()
```

Returns

[PictureBuilder](#)

PositionCenterOfParagraph()

문단의 가운데에 위치시킨다. (글자처럼 취급 안함)

```
public PictureBuilder PositionCenterOfParagraph()
```

Returns

[PictureBuilder](#)

PositionOnPage(PosHorzAlign, PosVertAlign, long, long)

페이지를 기준으로 위치 지정 (글자처럼 취급 안함)

```
public PictureBuilder PositionOnPage(PosHorzAlign horzAlign, PosVertAlign vertAlign, long horz(
```

Parameters

horzAlign PosHorzAlign

vertAlign PosVertAlign

horzOffset long⬀

vertOffset long⬀

Returns

PictureBuilder

PositionOnPage(PosHorzAlign, PosVertAlign, float, float)

페이지를 기준으로 위치 지정 (글자처럼 취급 안함)

```
public PictureBuilder PositionOnPage(PosHorzAlign horzAlign, PosVertAlign vertAlign, float hor:
```

Parameters

horzAlign PosHorzAlign

vertAlign PosVertAlign

horzOffset float⬀

　　float 형식은 센치미터

vertOffset float⬀

　　float 형식은 센치미터

Returns

[PictureBuilder](#)

PositionOnPaper(PosHorzAlign, PosVertAlign, long, long)

종이를 기준으로 위치 지정 (글자처럼 취급 안함)

```
public PictureBuilder PositionOnPaper(PosHorzAlign horzAlign, PosVertAlign vertAlign, long hor:
```

Parameters

horzAlign [PosHorzAlign](#)

vertAlign [PosVertAlign](#)

horzOffset [long⧉](#)

vertOffset [long⧉](#)

Returns

[PictureBuilder](#)

PositionOnPaper(PosHorzAlign, PosVertAlign, float, float)

종이를 기준으로 위치 지정 (글자처럼 취급 안함)

```
public PictureBuilder PositionOnPaper(PosHorzAlign horzAlign, PosVertAlign vertAlign, float hor
```

Parameters

horzAlign [PosHorzAlign](#)

vertAlign [PosVertAlign](#)

horzOffset [float⧉](#)

  float 형식은 센치미터

vertOffset float↗

    float 형식은 센치미터

Returns

[PictureBuilder](#)

PositionOnParagraph(PosHorzAlign, long, long)

문단을 기준으로 위치 지정 (글자처럼 취급 안함)

```
public PictureBuilder PositionOnParagraph(PosHorzAlign horzAlign, long horzOffset = 0, long ve
```

Parameters

horzAlign [PosHorzAlign](#)

horzOffset long↗

vertOffset long↗

Returns

[PictureBuilder](#)

PositionOnParagraph(PosHorzAlign, float, float)

문단을 기준으로 위치 지정 (글자처럼 취급 안함)

```
public PictureBuilder PositionOnParagraph(PosHorzAlign horzAlign, float horzOffset, float vert
```

Parameters

horzAlign [PosHorzAlign](#)

horzOffset float↗

    float 형식은 센치미터

`vertOffset` [float↗]

   float 형식은 센치미터

Returns

[PictureBuilder]

Ratio(float)

```
public PictureBuilder Ratio(float ratio = 1)
```

Parameters

`ratio` [float↗]

Returns

[PictureBuilder]

RatioPercent(int)

```
public PictureBuilder RatioPercent(int ratioPercent = 100)
```

Parameters

`ratioPercent` [int↗]

Returns

[PictureBuilder]

ResizeByHeight(int)

높이를 기준으로 비례하여 크기조정

```
public PictureBuilder ResizeByHeight(int height)
```

Parameters

`height` [int](#)

Returns

[PictureBuilder](#)

Exceptions

[ArgumentException](#)

ResizeByHeightFromCentimeter(float)

```
public PictureBuilder ResizeByHeightFromCentimeter(float height)
```

Parameters

`height` [float](#)

Returns

[PictureBuilder](#)

ResizeByWidth(int)

너비를 기준으로 비례하여 크기조정

```
public PictureBuilder ResizeByWidth(int width)
```

Parameters

`width` [int](#)

Returns

[PictureBuilder](#)

Exceptions

[ArgumentException⧉](#)

ResizeByWidthFromCentimeter(float)

```
public PictureBuilder ResizeByWidthFromCentimeter(float width)
```

Parameters

width [float⧉](#)

Returns

[PictureBuilder](#)

Size(int, int)

```
public PictureBuilder Size(int width, int height)
```

Parameters

width [int⧉](#)

height [int⧉](#)

Returns

[PictureBuilder](#)

SizeFromCentimeter(float, float)

```
public PictureBuilder SizeFromCentimeter(float width, float height)
```

Parameters

width float↗

height float↗

Returns

PictureBuilder

TextWrap(TextWrapType)

주위의 텍스트가 어 떻게 흘러갈지 정하는 옵션
글자처럼 취급 (TreatAsChar(bool)) 이 설정되지 않거나 "false↗" 일 때에만 사용

```
public PictureBuilder TextWrap(TextWrapType textWrap)
```

Parameters

textWrap TextWrapType

Returns

PictureBuilder

TreatAsChar(bool)

글자처럼 취급 여부

```
public PictureBuilder TreatAsChar(bool enable = true)
```

Parameters

enable bool↗

Returns

PictureBuilder

Class RunAbstractBuilder

Namespace: HwpxIO.Creator

Assembly: HwpxIO.Creator.dll

```
public abstract class RunAbstractBuilder
```

Inheritance

object ← RunAbstractBuilder

Derived

PictureBuilder, TableBuilder, TextBuilder

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

RunAbstractBuilder(HwpxCreator, Func<Paragraph, object>)

```
protected RunAbstractBuilder(HwpxCreator creator, Func<Paragraph, object> addFunc = null)
```

Parameters

`creator` HwpxCreator

`addFunc` Func<Paragraph, object>

Fields

addFunc

```
protected Func<Paragraph, object> addFunc
```

Field Value

Func␣ < Paragraph, object␣ >

buildValue

```
protected PTypeRun buildValue
```

Field Value

PTypeRun

builded

```
protected bool builded
```

Field Value

bool␣

pTypeRunBuilder

```
protected readonly PTypeRunBuilder pTypeRunBuilder
```

Field Value

PTypeRunBuilder

Methods

AddTo()

```
public Paragraph AddTo()
```

Returns

[Paragraph](#)

DoBuild()

```
protected abstract PTypeRun DoBuild()
```

Returns

[PTypeRun](#)

ToParagraph()

```
public Paragraph ToParagraph()
```

Returns

[Paragraph](#)

Class TableBuilder

Namespace: HwpxIO.Creator

Assembly: HwpxIO.Creator.dll

```
public class TableBuilder : RunAbstractBuilder
```

Inheritance

object ← RunAbstractBuilder ← TableBuilder

Inherited Members

RunAbstractBuilder.addFunc , RunAbstractBuilder.builded , RunAbstractBuilder.buildValue , RunAbstractBuilder.pTypeRunBuilder , RunAbstractBuilder.ToParagraph() , RunAbstractBuilder.AddTo() , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

TableBuilder(HwpxCreator, Func<Paragraph, object>)

1x1 테이블을 생성

```
public TableBuilder(HwpxCreator creator, Func<Paragraph, object> addFunc)
```

Parameters

`creator` HwpxCreator

`addFunc` Func<Paragraph, object>

TableBuilder(HwpxCreator, int, int)

```
public TableBuilder(HwpxCreator creator, int rowCount = 1, int colCount = 1)
```

Parameters

creator [HwpxCreator](#)

rowCount [int ↗](#)

colCount [int ↗](#)

Methods

AllCells()

전체 셀에 적용

```
public TableCellZone AllCells()
```

Returns

[TableCellZone](#)

Cell(int, int)

내용을 입력할 셀을 지정

```
public TableCell Cell(int rowAddr, int colAddr)
```

Parameters

rowAddr [int ↗](#)

colAddr [int ↗](#)

Returns

[TableCell](#)

CellZone(int, int, int, int)

셀 영역을 선택하여 정렬, 폰트, 색상 등을 수정 할 수 있도록 한다.

```
public TableCellZone CellZone(int startRowAddr, int startColAddr, int endRowAddr, int endColAdd
```

Parameters

startRowAddr int↗

startColAddr int↗

endRowAddr int↗

endColAddr int↗

Returns

[TableCellZone](#)

Column(int)

열 영역을 선택하여 정렬, 폰트, 색상 등을 수정 할 수 있도록 한다.

```
public TableColumnZone Column(int colAddr)
```

Parameters

colAddr int↗

Returns

[TableColumnZone](#)

Column(int, int)

열 영역을 선택하여 정렬, 폰트, 색상 등을 수정 할 수 있도록 한다.

```
public TableColumnZone Column(int startColAddr, int endColAddr)
```

Parameters

startColAddr int⧉

endColAddr int⧉

Returns

TableColumnZone

DefaultCellSetting()

셀의 크기, 테두리, 정렬 정보등의 기본값을 설정

```
public TableDefaultCellSetting DefaultCellSetting()
```

Returns

TableDefaultCellSetting

DoBuild()

```
protected override PTypeRun DoBuild()
```

Returns

PTypeRun

InMargin(long)

안쪽 여백

```
public TableBuilder InMargin(long margin)
```

Parameters

margin long⧉

Returns

[TableBuilder](#)

InMargin(long, long)

안쪽 여백

```
public TableBuilder InMargin(long horizontal, long vertical)
```

Parameters

horizontal [long⧉](#)

vertical [long⧉](#)

Returns

[TableBuilder](#)

InMargin(long, long, long, long)

안쪽 여백

```
public TableBuilder InMargin(long left, long right, long top, long bottom)
```

Parameters

left [long⧉](#)

right [long⧉](#)

top [long⧉](#)

bottom [long⧉](#)

Returns

[TableBuilder](#)

Lock(bool)

테이블 선택 가능 여부

```
public TableBuilder Lock(bool locked = true)
```

Parameters

`locked` [bool☒](#)

Returns

[TableBuilder](#)

PositionCenterOfPage()

테이블을 페이지의 가운데에 위치시킨다. (글자처럼 취급 안함)

```
public TableBuilder PositionCenterOfPage()
```

Returns

[TableBuilder](#)

PositionCenterOfParagraph()

테이블을 문단의 가운데에 위치시킨다. (글자처럼 취급 안함)

```
public TableBuilder PositionCenterOfParagraph()
```

Returns

[TableBuilder](#)

PositionOnPage(PosHorzAlign, PosVertAlign, long, long)

페이지를 기준으로 위치 지정 (글자처럼 취급 안함)

```
public TableBuilder PositionOnPage(PosHorzAlign horzAlign, PosVertAlign vertAlign, long horzOf
```

Parameters

horzAlign [PosHorzAlign](#)

vertAlign [PosVertAlign](#)

horzOffset [long⧉](#)

vertOffset [long⧉](#)

Returns

[TableBuilder](#)

PositionOnPage(PosHorzAlign, PosVertAlign, float, float)

페이지를 기준으로 위치 지정 (글자처럼 취급 안함)

```
public TableBuilder PositionOnPage(PosHorzAlign horzAlign, PosVertAlign vertAlign, float horzO
```

Parameters

horzAlign [PosHorzAlign](#)

vertAlign [PosVertAlign](#)

horzOffset [float⧉](#)

   float 형식은 센치미터

vertOffset [float⧉](#)

   float 형식은 센치미터

Returns

PositionOnPaper(PosHorzAlign, PosVertAlign, long, long)

종이를 기준으로 위치 지정 (글자처럼 취급 안함)

```
public TableBuilder PositionOnPaper(PosHorzAlign horzAlign, PosVertAlign vertAlign, long horzO
```

Parameters

horzAlign [PosHorzAlign](#)

vertAlign [PosVertAlign](#)

horzOffset [long⧉](#)

vertOffset [long⧉](#)

Returns

[TableBuilder](#)

PositionOnPaper(PosHorzAlign, PosVertAlign, float, float)

종이를 기준으로 위치 지정 (글자처럼 취급 안함)

```
public TableBuilder PositionOnPaper(PosHorzAlign horzAlign, PosVertAlign vertAlign, float horzO
```

Parameters

horzAlign [PosHorzAlign](#)

vertAlign [PosVertAlign](#)

horzOffset [float⧉](#)

float 형식은 센치미터

vertOffset [float⧉](#)

float 형식은 센치미터

Returns

[TableBuilder](#)

PositionOnParagraph(PosHorzAlign, long, long)

문단을 기준으로 위치 지정 (글자처럼 취급 안함)

```
public TableBuilder PositionOnParagraph(PosHorzAlign horzAlign, long horzOffset = 0, long vert(
```

Parameters

`horzAlign` [PosHorzAlign](#)

`horzOffset` [long⬀](#)

`vertOffset` [long⬀](#)

Returns

[TableBuilder](#)

PositionOnParagraph(PosHorzAlign, float, float)

문단을 기준으로 위치 지정 (글자처럼 취급 안함)

```
public TableBuilder PositionOnParagraph(PosHorzAlign horzAlign, float horzOffset, float vertOf
```

Parameters

`horzAlign` [PosHorzAlign](#)

`horzOffset` [float⬀](#)

float 형식은 센치미터

`vertOffset` [float⬀](#)

float 형식은 센치미터

Returns

[TableBuilder](#)

Row(int)

행 영역을 선택하여 정렬, 폰트, 색상 등을 수정 할 수 있도록 한다.

```
public TableRowZone Row(int rowAddr)
```

Parameters

rowAddr int↗

Returns

[TableRowZone](#)

Row(int, int)

행 영역을 선택하여 정렬, 폰트, 색상 등을 수정 할 수 있도록 한다.

```
public TableRowZone Row(int startRowAddr, int endRowAddr)
```

Parameters

startRowAddr int↗

endRowAddr int↗

Returns

[TableRowZone](#)

TableBuild()

테이블 객체를 생성하여 반환한다.

```
public TableType TableBuild()
```

Returns

[TableType](#)

TextWrap(TextWrapType)

테이블 주위의 텍스트가 어 떻게 흘러갈지 정하는 옵션
글자처럼 취급 ([TreatAsChar(bool)](#)) 이 설정되지 않거나 "[false⬈](#)" 일 때에만 사용

```
public TableBuilder TextWrap(TextWrapType textWrap)
```

Parameters

`textWrap` [TextWrapType](#)

Returns

[TableBuilder](#)

TreatAsChar(bool)

```
public TableBuilder TreatAsChar(bool enable = true)
```

Parameters

`enable` [bool⬈](#)

Returns

[TableBuilder](#)

Class TableCell

Namespace:

Assembly: HwpxIO.Creator.dll

```
public class TableCell
```

Inheritance

object ← TableCell

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() ,
object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

TableCell(TableBuilder, int, int)

```
public TableCell(TableBuilder table, int row, int col)
```

Parameters

`table` TableBuilder

`row` int

`col` int

Methods

Content(Paragraph)

셀 내용

```
public TableCell Content(Paragraph paragraph)
```

Parameters

`paragraph` [Paragraph](#)

Returns

[TableCell](#)

Content(ParaListType)

셀 내용

```
public TableCell Content(ParaListType paraListType)
```

Parameters

`paraListType` [ParaListType](#)

Returns

[TableCell](#)

HorizontalAlignment(HorizontalAlignment)

가로 정렬

```
public TableCell HorizontalAlignment(HorizontalAlignment horizontalAlignment)
```

Parameters

`horizontalAlignment` [HorizontalAlignment](#)

Returns

[TableCell](#)

Margin(long)

셀 여백

```
public TableCell Margin(long margin)
```

Parameters

margin long⧉

Returns

[TableCell](#)

Margin(long, long)

셀 여백

```
public TableCell Margin(long horizontal, long vertical)
```

Parameters

horizontal long⧉

vertical long⧉

Returns

[TableCell](#)

Margin(long, long, long, long)

셀 여백

```
public TableCell Margin(long left, long top, long right, long bottom)
```

Parameters

left long⧉

top `long`⧉

right `long`⧉

bottom `long`⧉

Returns

[TableCell](#)

Picture(Image)

셀 내용 (이미지)

```
public PictureBuilder Picture(Image image)
```

Parameters

image [Image](#)⧉

Returns

[PictureBuilder](#)

Picture(string)

셀 내용 (이미지)

```
public PictureBuilder Picture(string path)
```

Parameters

path [string](#)⧉

Returns

[PictureBuilder](#)

Size(long, long)

셀 크기 설정 (HWPUNIT)

```
public TableCell Size(long width, long height)
```

Parameters

width long⟋

height long⟋

Returns

[TableCell](#)

SizeFromCentimeter(float, float)

셀 크기 설정 (센치미터)

```
public TableCell SizeFromCentimeter(float width, float height)
```

Parameters

width float⟋

height float⟋

Returns

[TableCell](#)

Span(int, int)

셀 병합

```
public TableCell Span(int rowSpan = 1, int colSpan = 1)
```

Parameters

`rowSpan` [int ⧉](#)

`colSpan` [int ⧉](#)

Returns

[TableCell](#)

Text()

셀 내용 (텍스트)
[TextBuilder](#)를 반환하기 때문에 다른 설정을 한후에 추가.
[AddTo()](#)를 사용하여 항목을 셀에 추가해야 함.

```
public TextBuilder Text()
```

Returns

[TextBuilder](#)

Text(string)

셀 내용 (텍스트)
[TextBuilder](#)를 반환하기 때문에 다른 설정을 한후에 추가.
[AddTo()](#)를 사용하여 항목을 셀에 추가해야 함.

```
public TextBuilder Text(string text)
```

Parameters

`text` [string ⧉](#)

Returns

[TextBuilder](#)

VerticalAlignment(VerticalAlignment)

세로 정렬

```
public TableCell VerticalAlignment(VerticalAlignment verticalAlignment)
```

Parameters

verticalAlignment VerticalAlignment

Returns

TableCell

Class TableCellZone

Namespace:

Assembly: HwpxIO.Creator.dll

```
public class TableCellZone
```

Inheritance

object ← TableCellZone

Derived

TableColumnZone, TableRowZone

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() ,
object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

TableCellZone(TableBuilder, int, int, int, int)

```
public TableCellZone(TableBuilder table, int startRowAddr, int startColAddr, int endRowAddr, i
```

Parameters

table TableBuilder

startRowAddr int

startColAddr int

endRowAddr int

endColAddr int

Methods

Background(Color)

배경색 설정

```
public TableCellZone Background(Color color)
```

Parameters

color Color⌐

Returns

TableCellZone

Background(string)

배경색 설정

```
public TableCellZone Background(string backgroundColor)
```

Parameters

backgroundColor string⌐

Returns

TableCellZone

Border(BorderBuilder)

선택된 셀의 테두리를 설정한다 (배경색 보다 먼저 설정해야 한다)

```
public TableCellZone Border(BorderBuilder borderBuilder)
```

Parameters

borderBuilder BorderBuilder

Returns

[TableCellZone](#)

Border(Action\<BorderBuilder>)

선택된 셀의 테두리를 설정한다 (배경색 보다 먼저 설정해야 한다)

```
public TableCellZone Border(Action<BorderBuilder> borderBuilder)
```

Parameters

`borderBuilder` [Action](#)⧉ <[BorderBuilder](#)>

Returns

[TableCellZone](#)

Font(int)

```
public TableCellZone Font(int fontSize)
```

Parameters

`fontSize` [int](#)⧉

Returns

[TableCellZone](#)

Font(string)

```
public TableCellZone Font(string fontName)
```

Parameters

fontName string⬀

Returns

[TableCellZone](#)

Font(string, int?)

선택된 영역의 폰트와 크기를 설정한다.

```
public TableCellZone Font(string fontName, int? fontSize)
```

Parameters

fontName string⬀

fontSize int⬀?

Returns

[TableCellZone](#)

Foreground(Color)

텍스트 색상 설정

```
public TableCellZone Foreground(Color color)
```

Parameters

color Color⬀

Returns

[TableCellZone](#)

Foreground(string)

텍스트 색상 설정

```
public TableCellZone Foreground(string foregroundColor = "#000000")
```

Parameters

foregroundColor string⧉

Returns

TableCellZone

HorizontalAlignment(HorizontalAlignment?)

가로 정렬 설정

```
public TableCellZone HorizontalAlignment(HorizontalAlignment? horizontalAlignment)
```

Parameters

horizontalAlignment HorizontalAlignment?

Returns

TableCellZone

VerticalAlignment(VerticalAlignment?)

세로 정렬 설정

```
public TableCellZone VerticalAlignment(VerticalAlignment? verticalAlignment)
```

Parameters

verticalAlignment VerticalAlignment?

Returns

TableCellZone

Class TableColumnZone

Namespace: HwpxIO.Creator

Assembly: HwpxIO.Creator.dll

```
public class TableColumnZone : TableCellZone
```

Inheritance

object⊄ ← TableCellZone ← TableColumnZone

Inherited Members

TableCellZone.HorizontalAlignment(HorizontalAlignment?) ,
TableCellZone.VerticalAlignment(VerticalAlignment?) , TableCellZone.Border(BorderBuilder) ,
TableCellZone.Border(Action<BorderBuilder>) , TableCellZone.Background(string) ,
TableCellZone.Background(Color) , TableCellZone.Foreground(string) ,
TableCellZone.Foreground(Color) , TableCellZone.Font(string, int?) , TableCellZone.Font(string) ,
TableCellZone.Font(int) , object.Equals(object)⊄ , object.Equals(object, object)⊄ ,
object.GetHashCode()⊄ , object.GetType()⊄ , object.MemberwiseClone()⊄ ,
object.ReferenceEquals(object, object)⊄ , object.ToString()⊄

Constructors

TableColumnZone(TableBuilder, int)

```
public TableColumnZone(TableBuilder table, int colAddr)
```

Parameters

`table` TableBuilder

`colAddr` int⊄

TableColumnZone(TableBuilder, int, int)

```
public TableColumnZone(TableBuilder table, int startColAddr, int endColAddr)
```

Parameters

`table` [TableBuilder](#)

`startColAddr` [int⬀](#)

`endColAddr` [int⬀](#)

Methods

Width(long)

지정된 열의 너비를 설정한다. (HWPUNIT)

```
public TableColumnZone Width(long width)
```

Parameters

`width` [long⬀](#)

Returns

[TableColumnZone](#)

WidthFromCentimeter(float)

지정된 열의 너비를 설정한다. (센티미터)

```
public TableColumnZone WidthFromCentimeter(float width)
```

Parameters

`width` [float⬀](#)

Returns

[TableColumnZone](#)

Class TableDefaultCellSetting

Namespace: [HwpxIO.Creator](#)

Assembly: HwpxIO.Creator.dll

```
public class TableDefaultCellSetting
```

Inheritance

[object](#) ← TableDefaultCellSetting

Inherited Members

[object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) , [object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#) , [object.ToString()](#)

Constructors

TableDefaultCellSetting(TableBuilder)

```
public TableDefaultCellSetting(TableBuilder table)
```

Parameters

`table` [TableBuilder](#)

Methods

Border(BorderBuilder)

셀 테두리 기본 설정

```
public TableDefaultCellSetting Border(BorderBuilder borderBuilder)
```

Parameters

`borderBuilder` [BorderBuilder](#)

Returns

[TableDefaultCellSetting](#)

Border(Action<BorderBuilder>)

셀 테두리 기본 설정

```
public TableDefaultCellSetting Border(Action<BorderBuilder> borderBuilder)
```

Parameters

borderBuilder [Action](#)⮺<[BorderBuilder](#)>

Returns

[TableDefaultCellSetting](#)

HorizontalAlignment(HorizontalAlignment)

가로 정렬

```
public TableDefaultCellSetting HorizontalAlignment(HorizontalAlignment horizontalAlignment)
```

Parameters

horizontalAlignment [HorizontalAlignment](#)

Returns

[TableDefaultCellSetting](#)

RectangleBorder(BorderLineType?, BorderThickness?, Color)

셀 사각형 테두리 기본 설정

```
public TableDefaultCellSetting RectangleBorder(BorderLineType? lineType, BorderThickness? thick
```

Parameters

lineType [BorderLineType](#)?

thickness [BorderThickness](#)?

color [Color⧉](#)

Returns

[TableDefaultCellSetting](#)

RectangleBorder(BorderLineType?, BorderThickness?, string)

셀 사각형 테두리 기본 설정

```
public TableDefaultCellSetting RectangleBorder(BorderLineType? lineType = null, BorderThickness
```

Parameters

lineType [BorderLineType](#)?

thickness [BorderThickness](#)?

color [string⧉](#)

Returns

[TableDefaultCellSetting](#)

Size(long, long)

기본 셀 크기 설정 (HWPUNIT)

```
public TableDefaultCellSetting Size(long width, long height)
```

Parameters

width long↗

height long↗

Returns

[TableDefaultCellSetting](#)

SizeFromCentimeter(float, float)

기본 셀 크기 설정 (센치미터)

```
public TableDefaultCellSetting SizeFromCentimeter(float width, float height)
```

Parameters

width float↗

height float↗

Returns

[TableDefaultCellSetting](#)

VerticalAlignment(VerticalAlignment)

세로 정렬

```
public TableDefaultCellSetting VerticalAlignment(VerticalAlignment verticalAlignment)
```

Parameters

verticalAlignment [VerticalAlignment](#)

Returns

[TableDefaultCellSetting](#)

Class TableRowZone

Namespace: HwpxIO.Creator

Assembly: HwpxIO.Creator.dll

```
public class TableRowZone : TableCellZone
```

Inheritance

object ⧉ ← TableCellZone ← TableRowZone

Inherited Members

TableCellZone.HorizontalAlignment(HorizontalAlignment?) ,
TableCellZone.VerticalAlignment(VerticalAlignment?) , TableCellZone.Border(BorderBuilder) ,
TableCellZone.Border(Action<BorderBuilder>) , TableCellZone.Background(string) ,
TableCellZone.Background(Color) , TableCellZone.Foreground(string) ,
TableCellZone.Foreground(Color) , TableCellZone.Font(string, int?) , TableCellZone.Font(string) ,
TableCellZone.Font(int) , object.Equals(object) ⧉ , object.Equals(object, object) ⧉ ,
object.GetHashCode() ⧉ , object.GetType() ⧉ , object.MemberwiseClone() ⧉ ,
object.ReferenceEquals(object, object) ⧉ , object.ToString() ⧉

Constructors

TableRowZone(TableBuilder, int)

```
public TableRowZone(TableBuilder table, int rowAddr)
```

Parameters

table TableBuilder

rowAddr int ⧉

TableRowZone(TableBuilder, int, int)

```
public TableRowZone(TableBuilder table, int startRowAddr, int endRowAddr)
```

Parameters

`table` [TableBuilder](#)

`startRowAddr` [int⧉](#)

`endRowAddr` [int⧉](#)

Methods

Height(long)

지정된 행의 높이를 설정한다. (HWPUNIT)

```
public TableRowZone Height(long height)
```

Parameters

`height` [long⧉](#)

Returns

[TableRowZone](#)

HeightFromCentimeter(float)

지정된 행의 높이를 설정한다. (센티미터)

```
public TableRowZone HeightFromCentimeter(float height)
```

Parameters

`height` [float⧉](#)

Returns

[TableRowZone](#)

Class TextBuilder

Namespace: HwpxIO.Creator
Assembly: HwpxIO.Creator.dll

```
public class TextBuilder : RunAbstractBuilder
```

Inheritance

object ← RunAbstractBuilder ← TextBuilder

Inherited Members

RunAbstractBuilder.addFunc , RunAbstractBuilder.builded , RunAbstractBuilder.buildValue ,
RunAbstractBuilder.pTypeRunBuilder , RunAbstractBuilder.ToParagraph() , RunAbstractBuilder.AddTo() ,
object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() ,
object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

TextBuilder(HwpxCreator, Func<Paragraph, object>)

```
public TextBuilder(HwpxCreator creator, Func<Paragraph, object> addFunc = null)
```

Parameters

`creator` HwpxCreator

`addFunc` Func<Paragraph, object>

Methods

Bold(bool)

글자를 담은 요소 전체를 굵게 설정한다.

```
public TextBuilder Bold(bool bold = true)
```

Parameters

`bold` [bool⧉](#)

Returns

[TextBuilder](#)

Color(Color)

글자를 담은 요소 전체의 글자 색상을 설정한다.

```
public TextBuilder Color(Color color)
```

Parameters

`color` [Color⧉](#)

Returns

[TextBuilder](#)

Color(string)

글자를 담은 요소 전체의 글자 색상을 설정한다.

```
public TextBuilder Color(string color)
```

Parameters

`color` [string⧉](#)

Returns

[TextBuilder](#)

DoBuild()

```
protected override PTypeRun DoBuild()
```

Returns

[PTypeRun](#)

Font(string)

글자를 담은 요소 전체의 글꼴을 설정한다.

```
public TextBuilder Font(string fontName)
```

Parameters

`fontName` [string⧉](#)

Returns

[TextBuilder](#)

Italic(bool)

글자를 담은 요소 전체를 기울임꼴로 설정한다.

```
public TextBuilder Italic(bool italic = true)
```

Parameters

`italic` [bool⧉](#)

Returns

[TextBuilder](#)

LineBreak()

줄바꿈 문자를 추가한다.

```
public TextBuilder LineBreak()
```

Returns

TextBuilder

MarkPenText(string, Color)

형광펜으로 칠한 텍스트

```
public TextBuilder MarkPenText(string text, Color markPenColor)
```

Parameters

text string⊡

  텍스트

markPenColor Color⊡

  형광펜 색상

Returns

TextBuilder

MarkPenText(string, string)

형광펜으로 칠한 텍스트

```
public TextBuilder MarkPenText(string text, string markPenColor)
```

Parameters

text string⊡

텍스트

markPenColor [string↗](#)

형광펜 색상

Returns

[TextBuilder](#)

Ratio(int)

자간 설정 (%)

```
public TextBuilder Ratio(int ratio = 100)
```

Parameters

ratio [int↗](#)

Returns

[TextBuilder](#)

Size(int)

글자를 담은 요소 전체의 글꼴 크기를 설정한다.

```
public TextBuilder Size(int size)
```

Parameters

size [int↗](#)

Returns

[TextBuilder](#)

Text(string)

텍스트

```
public TextBuilder Text(string text)
```

Parameters

text string↗

Returns

TextBuilder

Namespace HwpxIO.Creator.Enums

Enums

BorderLineType

BorderThickness

HorizontalAlignment

ImageType

OrientationType

ParagraphHeadingType

PosHorzAlign

PosVertAlign

PredefinedPaperSizes

TextWrapType

VerticalAlignment

Enum BorderLineType

Namespace: HwpxIO.Creator.Enums

Assembly: HwpxIO.Creator.dll

```
public enum BorderLineType
```

Fields

Dash = 3

긴 점선

Dot = 2

점선

DoubleSlimThick = 6

이중 실선 (가는선 + 굵은선)

DoubleSolid = 4

이중 실선

DoubleThickSlim = 5

이중 실선 (굵은선 + 가는선)

None = 0

선 없음

Solid = 1

실선

Enum BorderThickness

Namespace: HwpxIO.Creator.Enums

Assembly: HwpxIO.Creator.dll

```
public enum BorderThickness
```

Fields

Thickness01_0mm = 0

Thickness01_2mm = 1

Thickness01_5mm = 2

Thickness02_0mm = 3

Thickness02_5mm = 4

Thickness03_0mm = 5

Thickness04_0mm = 6

Thickness05_0mm = 7

Thickness06_0mm = 8

Thickness07_0mm = 9

Thickness10_0mm = 10

Thickness20_0mm = 11

Thickness30_0mm = 12

Thickness40_0mm = 13

Thickness50_0mm = 14

Enum HorizontalAlignment

Namespace: HwpxIO.Creator.Enums

Assembly: HwpxIO.Creator.dll

```
public enum HorizontalAlignment
```

Fields

CENTER = 3

가운데 정렬

JUSTIFY = 0

양쪽 정렬

LEFT = 1

왼쪽 정렬

RIGHT = 2

오른쪽 정렬

Enum ImageType

Namespace: [HwpxIO.Creator.Enums](#)

Assembly: HwpxIO.Creator.dll

```
public enum ImageType
```

Fields

Bmp = 1

Gif = 3

Jpeg = 2

Png = 4

Unknown = 0

Enum OrientationType

Namespace: [HwpxIO.Creator.Enums](#)

Assembly: HwpxIO.Creator.dll

```
public enum OrientationType
```

Fields

Landscape = 1

　가로

Portrait = 0

　세로

Enum ParagraphHeadingType

Namespace: HwpxIO.Creator.Enums

Assembly: HwpxIO.Creator.dll

```
public enum ParagraphHeadingType
```

Fields

BULLET = 3

글머리표

NONE = 0

없음

NUMBER = 2

번호

OUTLINE = 1

개요

Enum PosHorzAlign

Namespace: HwpxIO.Creator.Enums

Assembly: HwpxIO.Creator.dll

```
public enum PosHorzAlign
```

Fields

Center = 1

Left = 0

Right = 2

Enum PosVertAlign

Namespace: HwpxIO.Creator.Enums

Assembly: HwpxIO.Creator.dll

```
public enum PosVertAlign
```

Fields

Bottom = 2

Center = 1

Top = 0

Enum PredefinedPaperSizes

Namespace: HwpxIO.Creator.Enums

Assembly: HwpxIO.Creator.dll

```
public enum PredefinedPaperSizes
```

Fields

A4 = 0

Enum TextWrapType

Namespace: HwpxIO.Creator.Enums

Assembly: HwpxIO.Creator.dll

```
public enum TextWrapType
```

Fields

BehindText = 2

글 뒤로

InFrontOfText = 3

글 앞으로

Through = 0

어울림

TopAndBottom = 1

자리차지

Enum VerticalAlignment

Namespace: HwpxIO.Creator.Enums

Assembly: HwpxIO.Creator.dll

```
public enum VerticalAlignment
```

Fields

BOTTOM = 2

하단 정렬

CENTER = 1

중앙 정렬

TOP = 0

상단 정렬