

# Bluebeam PDF Revu eXtreme Script Reference

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Bluebeam Software, Inc.  
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## Introduction

Scripting is integrated into Bluebeam PDF Revu eXtreme. Revu manages the files that the scripts will act on. Scripts can be run on the active document, or in batch mode. Revu will automatically open, save, and close the PDF files depending on the mode, and whether or not the script is set to commit changes.

A major advantage of scripting within Revu is that a script can be assigned to a toolbar button. When pushed the script is run on the active document. Some commands are only available when running Scripts from within Revu; E-mail is such a command. For example a script could be written that stamps, flattens, and launches an e-mail with the PDF attached.

## Syntax

Bluebeam Scripts are a series of commands that are single word identifiers followed by a comma delimited list of parameters enclosed in paranthesis.

For example:

```
SetPDFSecurity("abacadabra", 193)
```

In this example the PDF file being processed would have PDF Security applied such that only printing and copying are allowed.

There are several different types in Bluebeam Script:

Bool: Boolean values (true or false)

Number: Either an Integer or Real (1, 3.5, 0.2 ...)

String: Quoted list of characters ("document.pdf" ...) (the escape character is | )

Name: Unquoted list of characters containing letters and numbers only. (Print, View, Flatten ...)

Color: A special string that represents a Color that is either a Color name such as "Black" or "Red", or a hex string such as

"#FF0000" which indicates Red, or an integer that contains the RGB values as packed bytes where B is the lowest byte.

Additionally comments may be added by using the '%' character. Any characters following the command character will be ignored until a new line character is encountered.

## Commands

## BalancePages

### Description

Inserts blank pages into active document to balance the total number of pages to an odd, even, specific count, or specific page division

### Parameters

**pType** [String]: Specifies how blank pages will be inserted at the end of the pdf file as follows:

even = Inserts one page if needed to make count even

odd = Inserts one page if needed to make count odd

n = Inserts pages to make page count divisible by n, n is a number

-n = Inserts pages to make page count at least n pages, n is a number

**pWidth** [String, Optional]: Width of page in inches, last means width of last page

**pHeight** [String, Optional]: Height of page in inches, last means height of last page

**pStyle** [Number, Optional]: Page Style as follows:

0 = Blank

1 = Notebook

2 = 1/8" Grid

3 = 1/4" Grid

4 = Engineering Grid

5 = 0.5 cm Grid

6 = 1 cm Grid

7 = 1/2" Isometric Grid

8 = 0.5 cm Isometric Grid

### Example

```
BalancePages("even")
```

```
BalancePages(4, 8.5, 11, 1)
```

## ColorProcess

### Description

Converts page content colors to a color or gray scale.

### Parameters

**pStartColor** [Color]: Start color to convert source colors to, usually darker color

**pEndColor** [Color]: End color to convert source colors to, usually lighter color

**pScale** [Bool, Optional]: Indicates that colors should be scaled from start to end

**pProcessImages** [Bool, Optional]: Images should be converted to new colors

**pPageRange** [String, Optional]: List or range of pages to be processed, -1 will process all pages, exp:  
1,2,10-20

### Example

```
ColorProcess("black", "white") % Convert to grayscale
```

```
ColorProcess("Red", "white", true, true, "10-20")
```

## ColumnsExport

### *Description*

Exports the user defined column definition of the active document to an .xml file.

### *Parameters*

**pFileName** [String]: Filename to export the columns into

### *Example*

```
ColumnsExport('columns.xml')
```

## **ColumnsImport**

### *Description*

Imports a user defined column definition .xml file into the active document overwriting any existing user defined columns. An .xml file can be generated by either the command ColumnsExport, or from within Bluebeam PDF Revu.

### *Parameters*

**pFileName** [String]: Filename of the user defined columns definition .xml file to import into the active document

### *Example*

```
ColumnsImport("columns.xml")
```

## **DeleteFile**

### *Description*

Deletes a file from specified location.

### *Parameters*

**pFileName** [String]: Filename to delete from the file system

### *Example*

```
DeleteFile("c:\Directory\Filename.pdf")
```

## **Email**

### *Description*

Launches an E-mail window with the active document attached.

### *Parameters*

**pTo** [String, Optional]: E-mail address of recipient, use ';' to delimit multiple addresses

**pSubject** [String, Optional]: E-mail subject

**pBody** [String, Optional]: E-mail body

### *Example*

```
Email()
```

```
Email("support@bluebeam.com")
```

## **Export**

### *Description*

Exports the markups in the active document to the specified output file optionally using a User ID to filter on.

### *Parameters*

**pOutputBAX** [String, Optional]: Filename to export the markups into

**pUserID** [String, Optional]: User ID as used in File Exchange to filter on when exporting markups

### *Example*

```
Export("output.bax")
```

```
Export("output.bax", "12345")
```

## **FilePropertySet**

### *Description*

Sets a file property in the active document based on the specified key and value.

### *Parameters*

**pKey** [String]: Key of file property to set

**pValue** [String]: Desired value of file property

### *Example*

```
FilePropertySet("Author", "Homer J. Simpson")
```

## **Flatten**

### *Description*

Takes the active document and flattens all markups to be part of the page content.

### *Parameters*

**pRecoverable** [Bool, Optional]: Specifies whether or not the flatten process is reversible

**pFlags** [Number, Optional]: Specifies what type of markups to flatten

Default = 8191

Image = 1

Ellipse = 2

Stamp = 4

Snapshot = 8

Text and Callout = 16

Ink and Highlighter = 32

Line and Dimension = 64

Measure Area = 128

Polyline = 256

Polygon and Cloud = 512

Rectangle = 1024

Text Markups = 2048

Group = 4096

File Attachment = 8192

Flags = 16384

Notes = 32768  
Form Fields = 65536

Add together all values that should be flattened

**pPageRange** [String, Optional]: List or range of pages to be flattened, -1 will flatten all pages, exp:  
1,2,10-20

**pLayerName** [String, Optional]: Layer Name to flatten markups to

### *Example*

Flatten()

Flatten(true)

Flatten(true, 9) % Flattens Images (1) and Snapshots (8)

## **FormExport**

### *Description*

Exports the form data in the active document to a .xml, .csv, or .fdf file.

### *Parameters*

**pFileName** [String]: Filename (.xml, .csv, or .fdf) to export the form data into

### *Example*

FormExport("formdata.fdf")

## **FormImport**

### *Description*

Imports an FDF file containing form data into the active document.

### *Parameters*

**pFileName** [String]: Filename of FDF file to import into the active document

### *Example*

FormImport("formdata.fdf")

## **HeaderAndFooter**

### *Description*

Applies headers and footers to the active document. There are many codes that can be passed in as part of the header or footer text that will be dynamically substituted when the text is applied to the document.

### *Page Index Codes*

<<1>>, <<1 of n>>, <<1/n>>, <<Page 1>>, <<Page 1 of n>>

### *Date Codes*

<<M/d>>, <<M/d/yy>>, <<M/d/yyyy>>, <<MM/dd/yy>>, <<MM/dd/yyyy>>, <<d/M/yy>>, <<d/M/yyyy>>, <<dd/MM/yy>>, <<dd/MM/yyyy>>, <<MM/yy>>, <<MM/yyyy>>, <<ddd MMM d, yyyy>>, <<dddd MMMM d, yyyy>>, <<MM/dd/yyyy h:mm tt>>, <<dd/MM/yyyy HH:mm>>

## Bates Numbering

<<Bates Number#Digits#Start#Prefix#Suffix>>

### Examples:

<<Bates Number#6#1#\_Prefix#\_Suffix>>, <<Bates Number#6#1>>

## File Properties

Headers and Footers also support pulling file property data from the PDF, any file property key can be used such as:

<<Title>>, <<Author>>, <<Client>> ...

These are additional special codes:

<<FileName>>, <<Path>>, <<PageLabel>>

## Parameters

**pTopLeft** [String]: Header text for top left of page

**pTopCenter** [String]: Header text for top center of page

**pTopRight** [String]: Header text for top right of page

**pBottomLeft** [String]: Footer text for bottom left of page

**pBottomCenter** [String]: Footer text for bottom center of page

**pBottomRight** [String]: Footer text for bottom right of page.

**pMarginLeft** [Number, Optional]: Left margin in points (72 points per inch)

**pMarginTop** [Number, Optional]: Top margin in points (72 points per inch)

**pMarginRight** [Number, Optional]: Right margin in points (72 points per inch)

**pMarginBottom** [Number, Optional]: Bottom margin in points (72 points per inch)

**pFont** [String, Optional]: Name of font to use with header and footer

**pSize** [Number, Optional]: Size of font

**pBold** [Bool, Optional]: Emboldens font

**pItalic** [Bool, Optional]: Italicizes font

**pUnderline** [Bool, Optional]: Underlines text

**pColor** [Color, Optional]: Font color

**pFitToContent** [Bool, Optional]: Make content of page fit inside margins

**pBatesOffset** [Number, Optional]: The offset of the bates numbering

**pBatesKey** [String, Optional]: The unique key used to persistently store the last used Bates offset. Use this key to ensure that every bates number will be unique across documents.

**pPageRange** [String, Optional]: List or range of pages to apply the header and footer to, -1 will apply to all pages, exp: 1,2,10-20

## Example

HeaderAndFooter("", "<<dddd MMMM d, yyyy>>","<<h:mm ss tt>>","<<Author>>","", "<<Page 1 of n>>", 108, 28.8, 108, 48, "Blackadder ITC", 10.0, false, false, "Red", false, 93, "1,3,5,10-20")

## Import

### Description

Imports the markups from list of files specified as parameters into the active document.

### Parameters

**pBAXorPDF** [String, ...]: Filename of a bax or pdf file to import into the active document



### Example

```
Import("markups1.bax", "markups2.bax" ...)  
Import("revA.pdf" ...)  
Import("markups1.bax", "revB.pdf" ...)
```

## InsertBlankPages

### Description

Inserts new blank pages into the active document using the specified parameters for width, height, count and style. The default count is 1 and the default style is blank.

### Parameters

**pIndex** [Number]: Page Index in the active document to insert pages after, 0 is before first page.

**pWidth** [Number]: Width of page in inches

**pHeight** [Number]: Height of page in inches

**pCount** [Number, Optional]: Number of pages to insert

**pStyle** [Number, Optional]: Page Style as follows:

0 = Blank

1 = Notebook

2 = 1/8" Grid

3 = 1/4" Grid

4 = Engineering Grid

5 = 0.5 cm Grid

6 = 1 cm Grid

7 = 1/2" Isometric Grid

8 = 0.5 cm Isometric Grid

### Example

```
InsertBlankPages(0, 8.5, 11)  
InsertBlankPages(2, 8.5, 11, 10, 3)
```

## InsertPages

### Description

Inserts a PDF file into the active document using the specified parameters to control what additional data to be additionally imported such as bookmarks, file attachments, and file properties

### Parameters

**pIndex** [Number]: Page Index in the active document to insert pages after, 0 is before first page.

**pFileName** [String]: Filename of document to insert

**pBookmarks** [Bool, Optional]: Insert bookmarks from inserted file, default is false

**pAttachments** [Bool, Optional]: Insert file attachments from inserted file, default is false

**pProperties** [Bool, Optional]: Merge document properties from inserted file, default is false

### Example

```
InsertPages(0, "Document.pdf")  
InsertPages(0, "Document.pdf", true, true, true)
```

## PageDelete

### *Description*

Deletes pages from the current document.

### *Parameters*

**pPageRange** [String]: List or range of pages to delete. Can not delete all pages. exp: 1,2,10-20

### *Example*

```
PageDelete("1,2,10-20")
```

## **PageExtract**

### *Description*

Extracts pages from the currently active pdf document.

### *Parameters*

**pPageRange** [String]: List or range of pages to Extract, -1 will extract all pages, exp: 1,2,10-20

**pFileNameOrDirectory** [String]: Filename or directory to save the extracted pages to

**pPrefix** [String, Optional]: A prefix that can be appended to the filename

**pSuffix** [String, Optional]: A suffix that can be appended to the filename

### *Example*

```
PageExtract("1-3", "c:\Directory\file.pdf")
```

```
PageExtract("1,5,10-20", "c:\Directory")
```

```
PageExtract("1,5,10-20", "filename.pdf")
```

```
PageExtract("1,5,10-20", "", "prefix_", "_suffix")
```

## **PageRotate**

### *Description*

Rotates the active document pages by 90 degree increments.

### *Parameters*

**pRotations** [Number]: Degrees to rotate pages by, must be multiple of 90

**pPortrait** [Bool, Optional]: Include portrait pages, default is true

**pLandscape** [Bool, Optional]: Include landscape pages, default is true

**pPageRange** [String, Optional]: List or range of pages to be Rotated, -1 will rotate all pages, exp:  
1,2,10-20

### *Example*

```
PageRotate(90)
```

```
PageRotate(-90, false, true, "10-20")
```

## **Print**

### *Description*

Prints the active document to a physical printer. There are only 3 syntaxes available for this function, see examples below. If advanced printing options are required, all 9 parameters must be specified.

### *Parameters*

**pPrinter** [String, Optional]: Name of Printer

**pPageSize** [String, Optional]: Page size as it appears on Printer

**pLandscape** [Bool, Optional]: Whether to print landscape(true) or portrait(false)

**pPageRange** [String, Optional]: List or range of pages to be printed, -1 will print all pages, exp: 1,2,10-20

**pAutoRotateAndCenter** [Number, Optional]: Automatically rotated and center page content on paper.

-1 : Autorotate and center -90

0 : No autorotate and center

1 : Autorotate and center 90

**pScaleType** [Number, Optional]: Specifies how to scale when printing according to the following:

0 = None

1 = Fit to Paper

2 = Shrink large Images

3 = Custom

**pCustomScale** [Number, Optional]: If scale type is set to custom, this is the custom scale value (e.g. 0.5 would be 50%)

**pDim** [Bool, Optional]: Specifies whether to dim the content when printing

**pCopies** [Number, Optional]: Number of copies to print

### *Example*

```
Print()
```

```
Print("HP Laserjet")
```

```
Print("HP Laserjet", "letter", false, "1-3", true, 1, 1, false, 1)
```

## **PrintToFile**

### *Description*

Prints the active document to a file. There are only 3 syntaxes available for this function, see examples below. If advanced printing options are required, all 10 parameters must be specified.

### *Parameters*

**pFileName** [String]: File to print output to

**pPrinter** [String, Optional]: Name of Printer

**pPageSize** [String, Optional]: Page size as it appears on Printer

**pLandscape** [Bool, Optional]: Whether to print landscape(true) or portrait(false)

**pPageRange** [String, Optional]: List or range of pages to be printed, -1 will print all pages, exp: 1,2,10-20

**pAutoRotateAndCenter** [Number, Optional]: Automatically rotated and center page content on paper.

-1 : Autorotate and center -90

0 : No autorotate and center

1 : Autorotate and center 90

**pScaleType** [Number, Optional]: Specifies how to scale when printing according to the following:

0 = None

1 = Fit to Paper

2 = Shrink large Images

3 = Custom

**pCustomScale** [Number, Optional]: If scale type is set to custom, this is the custom scale value (e.g. 0.5 would be 50%)

**pDim** [Bool, Optional]: Specifies whether to dim the content when printing  
**pNumberOfCopies** [Number, Optional]: Number of copies to print

### Example

```
PrintToFile("out.prn")  
PrintToFile("out.prn", "HP Laserjet")  
PrintToFile("out.prn", "HP Laserjet", "letter", false, "1-3", true, 1, 1, false, 1)
```

## Repair

### Description

Runs a repair process on the active document using the specified options.

### Parameters

**pFixStripedImages** [Bool]: Groups neighboring image stripes into a single image  
**pCombineStripedImages** [Bool]: Attempts to merge groups of thin adjacent images into one image  
**pOptimizeSolidColorImages** [Bool]: Converts single color images into vector rectangles  
**pProcessMasks** [Bool]: Fixes AutoCAD files with Blend Modes and Masks  
**pRemoveTextClipping** [Bool]: Fixes AutoCAD files with text clipping problems

### Example

```
Repair(true, true, true, true)
```

## ReplacePages

### Description

Replaces pages in the current document with pages from the source document.

### Parameters

**pSourceFileName** [String]: PDF document to get pages from  
**pSourcePages** [String]: List or range of all source pages to use, -1 will use all pages, exp: 1,2,10-20  
**pPagesToReplace** [String]: List or range of pages to replace, -1 will replace all pages, exp: 1,2,10-20  
**pContentOnly** [Bool, Optional]: If true only the page content will be replaced leaving markups and hyperlinks

### Example

```
ReplacePages("c:\Directory\test.pdf", "1", "1")  
ReplacePages("c:\Directory\test.pdf", "3,6", "4,7", true)
```

## SaveAs

### Description

Launches the Save As Window

### Parameters

**pExt** [String, Optional]: File extension ("pdf", "txt", "jpeg", "gif", "bmp", "png", "tiff", "docx", "doc", "rtf", "html", "xlsx", "xls", or "pptx")

### Example

SaveAs(".tiff")

## SetOpenPassword

### Description

Sets open password on active document.

### Parameters

**pOpenPassword** [String]: The open password need to open PDF

### Example

```
SetOpenPassword("abacadabra")
```

## SetPDFSecurity

### Description

Applies security permissions to the active document.

### Parameters

**pPermissionPassword** [String]: Password to lock pdf permissions

**pFlags** [Number]: Specifies what permission are allowed

Print = 1

PrintLowOnly = 2

FillForms = 4

EditMarkups = 8

EditDocument = 16

PageManipulation = 32

CopyContent = 64

Accessibility = 128

Add together values to set permissions

**pOpenPassword** [String, Optional]: Password used to open the pdf file

### Example

```
SetPDFSecurity("master", 1)
```

```
SetPDFSecurity("master", 13, "open")
```

## SplitPages

### Description

Extracts all pages in page range to individual files.

### Parameters

**pPageRange** [String]: List or range of pages to Extract, -1 will extract all pages, exp: 1,2,10-20

**pDirectory** [String]: Directory to save the extracted pages to

**pUsePageLabels** [Bool, Optional]: Use page labels to name extracted pages as pdf files.

**pPageFormat** [String, Optional]: Format to number files names for multiple pages, if pUsePageLabels is true then this parameter will be ignored

### Example

```
SplitPages("-1", "c:\Directory")  
SplitPages("1,5,10", "c:\Directory", true )  
SplitPages("1,5,10-20", "c:\Directory", false, " Page 001")
```

## Stamp

### Description

Places a stamp on the active document using the specified parameters.

### Parameters

**pFileName** [String]: Filename of Stamp

**pOrigin** [String]: Origin of where to place the stamp as follows:

- "upperleft"
- "upperright"
- "lowerleft"
- "lowerright"
- "center"
- "uppercenter"
- "lowercenter"

**pXOffset** [Number]: X Offset from origin in inches

**pYOffset** [Number]: Y Offset from origin in inches

**pRotation** [Number, Optional]: Rotation in Degrees

**pScale** [Number, Optional]: Scale (e.g. 0.5 would be 50%)

**pOpacity** [Number, Optional]: Opacity (0.4 would be 40% opacity)

**pBlendMode** [String, Optional]: Blend Mode as follows:

- "normal"
- "multiply"
- "screen"
- "overlay"
- "darken"
- "lighten"
- "colordodge"
- "colorburn"
- "hardlight"
- "softlight"
- "difference"
- "exclusion"
- "luminosity"
- "hue"
- "saturation"
- "color"

**pPageRange** [String, Optional]: List or range of pages to be stamped, -1 will stamp all pages, exp:  
1,2,10-20

**pLocked** [Bool, Optional]: Specifies whether or not the stamp should be locked

### Example

```
Stamp("mystamp.brx", "lowerright", 0.5, 1.0, 0, 1, 1, "normal")
```

## Thumbnail

### Description

Creates a thumbnail of given width and height and saves it to the specified filename. Can have an extension of most common image formats including (.bmp, .png, .jpg ...)

### Parameters

**pWidth** [Number]: Desired width in pixels of output thumbnail image

**pHeight** [Number]: Desired height in pixels of output thumbnail image

**pFileName** [String]: Filename of desired output thumbnail image.

**pPageFormat** [String, Optional]: Suffix used when generatating thumbnails for multiple pages. " Page 001" would cause the resulting files to be named "File Page 001.png", "File Page 002.png" ...

**pPageRange** [String, Optional]: List or range of pages to have thumbnails generated for, -1 will generate thumbnails for all pages, exp: 1,2,10-20

**pShowPopups** [Bool, Optional]: Indicates that popups should be included

### Example

```
thumbnail(320, 200, "thumbnail.png")
```

## Unflatten

### Description

Reverses the flattening process on the active document.

### Parameters

**pPageRange** [String, Optional]: List or range of pages to unflatten, -1 will unflatten all pages, exp: 1,2,10-20

### Example

```
Unflatten()
```