

# Readability Studio 2023

## *Programming Reference Manual*



Blake Madden



# Readability Studio 2021.4

*Programming Manual*

Blake Madden

Readability Studio 2021.4  
*Programming Manual*  
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# Contents

<b>1</b>	<b>Overview</b>	<b>1</b>
<b>I</b>	<b>Classes</b>	<b>3</b>
<b>2</b>	<b>BatchProject</b>	<b>5</b>
	AddTest . . . . .	5
	AggressivelyExclude . . . . .	5
	ApplyGraphBackgroundColorFade . . . . .	6
	Close . . . . .	6
	DelayReloading . . . . .	6
	DisplayGraphDropShadows . . . . .	6
	ExcludeCopyrightNotices . . . . .	7
	ExcludeFilePath . . . . .	7
	ExcludeNumerals . . . . .	7
	ExcludeProperNouns . . . . .	8
	ExcludeTrailingCitations . . . . .	8
	ExportAll . . . . .	8
	ExportGraph . . . . .	8
	ExportList . . . . .	9
	GetDocumentStorageMethod . . . . .	10
	GetFilePathDisplayMode . . . . .	10
	GetMinDocWordCountForBatch . . . . .	10
	GetParagraphsParsingMethod . . . . .	10
	GetProjectLanguage . . . . .	11
	GetTitle . . . . .	11
	Reload . . . . .	11
	SelectWindow . . . . .	11
	SetAppendedDocumentFilePath . . . . .	12

SetBlockExclusionTags . . . . .	12
SetDocumentStorageMethod . . . . .	12
SetFilePathDisplayMode . . . . .	13
SetGraphBackgroundColor . . . . .	13
SetGraphBackgroundImage . . . . .	13
SetGraphBackgroundOpacity . . . . .	14
SetGraphLogoImage . . . . .	14
SetGraphWatermark . . . . .	14
SetIncludeIncompleteTolerance . . . . .	15
SetMinDocWordCountForBatch . . . . .	15
SetParagraphsParsingMethod . . . . .	15
SetPhraseExclusionList . . . . .	15
SetPlotBackgroundColor . . . . .	16
SetPlotBackgroundOpacity . . . . .	16
SetProjectLanguage . . . . .	16
SetReviewer . . . . .	17
SetSpellCheckerOptions . . . . .	17
SetStippleImage . . . . .	17
SetTextExclusion . . . . .	18
SetWindowSize . . . . .	18
ShowSidebar . . . . .	19
SortList . . . . .	19
<b>3 StandardProject</b>	<b>21</b>
AddTest . . . . .	22
AggressivelyExclude . . . . .	23
ApplyGraphBackgroundColorFade . . . . .	23
Close . . . . .	24
DelayReloading . . . . .	24
DisplayGraphDropShadows . . . . .	25
ExcludeCopyrightNotices . . . . .	25
ExcludeFileAddress . . . . .	26
ExcludeNumerals . . . . .	27
ExcludeProperNouns . . . . .	28
ExcludeTrailingCitations . . . . .	29
ExportAll . . . . .	30
ExportFilteredText . . . . .	30

ExportGraph . . . . .	31
ExportHighlightedWords . . . . .	32
ExportList . . . . .	33
ExportReport . . . . .	34
ExportScores . . . . .	34
Get1SyllableWordCount . . . . .	35
Get3SyllablePlusWordCount . . . . .	35
Get6CharacterPlusWordCount . . . . .	35
Reload . . . . .	36
SetAppendedDocumentFilePath . . . . .	37
SetBlockExclusionTags . . . . .	38
SetReviewer . . . . .	38
SetTextExclusion . . . . .	39
ShowSidebar . . . . .	39
SortList . . . . .	40

## II Libraries 41

### 4 Application 43

AggressivelyExclude . . . . .	43
ApplyGraphBackgroundFade . . . . .	44
CheckHtmlLinks . . . . .	44
Close . . . . .	44
DisableAllWarnings . . . . .	45
DisableWarning . . . . .	45
DisplayGraphDropShadows . . . . .	45
DownloadFile . . . . .	46
EnableAllWarnings . . . . .	46
EnableWarning . . . . .	46
ExcludeCopyrightNotices . . . . .	48
ExcludeFileAddress . . . . .	48
ExcludeNumerals . . . . .	48
ExcludeProperNouns . . . . .	49
ExcludeTrailingCitations . . . . .	49
ExportSettings . . . . .	50
FindFiles . . . . .	50
GetAbsolutePath . . . . .	51

GetActiveBatchProject . . . . .	51
GetActiveStandardProject . . . . .	52
GetDocumentsPath . . . . .	52
GetDocumentStorageMethod . . . . .	52
GetFilePathDisplayMode . . . . .	53
GetImageInfo . . . . .	53
GetMinDocWordCountForBatch . . . . .	54
GetParagraphsParsingMethod . . . . .	54
GetProgramPath . . . . .	54
GetProjectLanguage . . . . .	55
GetReviewer . . . . .	55
GetTestId . . . . .	56
ImportSettings . . . . .	56
LogError . . . . .	57
LogMessage . . . . .	57
MergeWordLists . . . . .	58
MsgBox . . . . .	58
RemoveAllCustomTestBundles . . . . .	58
RemoveAllCustomTests . . . . .	59
ResetSettings . . . . .	59
SetBarChartBarColor . . . . .	59
SetBarChartBarEffect . . . . .	60
SetBarChartBarOpacity . . . . .	60
SetBarChartOrientation . . . . .	60
SetBlockExclusionTags . . . . .	61
SetCenterPrintFooter . . . . .	61
SetCenterPrintHeader . . . . .	62
SetDocumentStorageMethod . . . . .	62
SetFilePathDisplayMode . . . . .	63
SetGraphBackgroundColor . . . . .	63
SetGraphBackgroundImage . . . . .	64
SetGraphBackgroundOpacity . . . . .	64
SetGraphCustomBrushImage . . . . .	64
SetGraphLogoImage . . . . .	65
SetGraphWatermark . . . . .	65
SetIncludeIncompleteTolerance . . . . .	65



SetLeftPrintFooter . . . . .	66
SetLeftPrintHeader . . . . .	66
SetMinDocWordCountForBatch . . . . .	67
SetParagraphsParsingMethod . . . . .	67
SetPhraseExclusionListFilePath . . . . .	68
SetPlotBackgroundColor . . . . .	68
SetPlotBackgroundOpacity . . . . .	69
SetProjectLanguage . . . . .	69
SetReviewer . . . . .	69
SetRightPrintFooter . . . . .	70
SetRightPrintHeader . . . . .	70
SetSpellCheckerOptions . . . . .	71
SetTextExclusion . . . . .	72
SetWindowSize . . . . .	72
SplashScreen . . . . .	73
WriteToFile . . . . .	73
<b>5 Debug</b>	<b>75</b>
Clear . . . . .	75
GetScriptFolderPath . . . . .	75
Print . . . . .	76
<b>III Enumerations</b>	<b>77</b>
<b>6 Enumerations</b>	<b>79</b>
BatchScoreResultType . . . . .	79
BoxEffect . . . . .	80
DolchResultType . . . . .	81
FilePathDisplayMode . . . . .	82
FontWeight . . . . .	83
GraphType . . . . .	84
HighlightedReportType . . . . .	85
ImageFit . . . . .	86
Language . . . . .	87
ListType . . . . .	88
Orientation . . . . .	89
ParagraphParse . . . . .	90

---

ProductType . . . . .	91
ReportType . . . . .	92
SideBarSection . . . . .	93
SortOrder . . . . .	94
StemmingType . . . . .	95
Tests . . . . .	96
TestType . . . . .	98
TextExclusionType . . . . .	99
TextStorage . . . . .	100
<b>Index</b>	<b>101</b>

# Chapter 1

## Overview

Readability Studio provides access to its functionality through a Lua API (Application Programmer Interface). By using this API, Lua scripts can be written and executed from within *Readability Studio* to automate various tasks.

The primary interfaces to this API are:

- **Application** Provides access to the current application, its full set of features, and its active projects
- **StandardProject** Standard project objects, which can analyze a document and export its results
- **BatchProject** Batch project objects, which can analyze multiple documents and export their results



# Part I

## Classes



## Chapter 2

# BatchProject

Provides the functionality of a batch project. Batch projects enable you to analyze multiple documents at once and review their aggregated results.

### AddTest

Adds a test to the project.

```
boolean AddTest(Test/string test)
```

#### Parameters

Parameter	Description
test	<b>Test</b> or The ID of the test to add. (For a custom test, use the name of the test.)

#### Return value

Type: **boolean**  
**true** if the test was successfully added; otherwise, **false**.

### AggressivelyExclude

Specifies whether to use aggressive list deduction.

```
AggressivelyExclude(boolean beAggressive)
```

#### Parameters

Parameter	Description
beAggressive	Set to <b>true</b> to use aggressive text exclusion.

## ApplyGraphBackgroundColorFade

Specifies whether to use a color fade across graph backgrounds.

```
ApplyGraphBackgroundColorFade(boolean useColorFade)
```

### Parameters

Parameter	Description
useColorFade	true to use a color fade across graph backgrounds.

## Close

Closes the project.

```
Close(boolean saveChanges)
```

### Parameters

Parameter	Description
saveChanges	Specifies whether to save any changes made to the project. (The default is <b>false</b> .)

## DelayReloading

Prevents a project from updating while settings are being changed. This will require an explicit call to `Reload()` for the changes to take affect. This is more efficient for when multiple settings are being altered at one time.

```
DelayReloading(Delay)
```

### Parameters

Parameter	Description
Delay	Specifies whether to delay reloading the project.

## DisplayGraphDropShadows

Specifies whether to use shadows underneath items (such as bars) on all the graphs.



```
DisplayGraphDropShadows(UseShadows)
```

## Parameters

Parameter	Description
UseShadows	<b>true</b> to use shadows underneath items (such as bars) on all the graphs.

## ExcludeCopyrightNotices

Specifies whether to exclude copyright notices.

```
ExcludeCopyrightNotices(Exclude)
```

## Parameters

Parameter	Description
Exclude	<b>true</b> to exclude copyright notices.

## ExcludeFileAddress

Specifies whether to exclude filepaths and URLs.

```
ExcludeFileAddress(Exclude)
```

## Parameters

Parameter	Description
Exclude	<b>true</b> to exclude filepaths and URLs.

## ExcludeNumerals

Specifies whether to exclude numerals.

```
ExcludeNumerals(Exclude)
```

## Parameters

Parameter	Description
Exclude	<code>true</code> to exclude numerals.

## ExcludeProperNouns

Specifies whether to exclude proper nouns.

```
ExcludeProperNouns(Exclude)
```

### Parameters

Parameter	Description
Exclude	<code>true</code> to exclude proper nouns.

## ExcludeTrailingCitations

Specifies whether to exclude trailing citations.

```
ExcludeTrailingCitations(Exclude)
```

### Parameters

Parameter	Description
Exclude	<code>true</code> to exclude trailing citations.

## ExportAll

Exports the project's results to the specified folder.

```
ExportAll(OutputFolder)
```

### Parameters

Parameter	Description
OutputFolder	The folder to save the project's results.

## ExportGraph

Saves the specified graph as an image.

```
ExportGraph(SideBarSection,
            GraphType,
            OutputFilePath,
            GrayScale,
            Width,
            Height)
```

## Parameters

Parameter	Description
SideBarSection	Which section of the results the graph is in.
GraphType	The graph to export.
OutputFilePath	The folder to save the graph.
GrayScale	(Optional) Set to <b>true</b> to save the image as black & white.
Width	(Optional) Specifies the width of the image.
Height	(Optional) Specifies the height of the image.

## ExportList

Saves the specified list as a HTML or text file to **OutputFilePath**.

```
ExportList(ListType,
            OutputFilePath,
            FromRow,
            ToRow,
            FromColumn,
            ToColumn,
            IncludeHeaders,
            IncludePageBreaks)
```

## Parameters

Parameter	Description
ListType	The list to export.
OutputFilePath	The folder to save the list.
FromRow	(Optional) Specifies the row to begin from. The default is the first row.
ToRow	(Optional) Specifies the last row. Enter -1 to specify the last row in the list.
FromColumn	(Optional) Specifies the row to column from. The default is the first column.
ToColumn	(Optional) Specifies the last column. Enter -1 to specify the last column in the list.
IncludeHeaders	(Optional) Specifies whether to include the column headers.

Parameter	Description
IncludePageBreaks	(Optional) Specifies whether to insert page breaks. Note that this is only applicable if exporting as HTML.

## GetDocumentStorageMethod

Returns whether the project embeds its documents or links to them.

```
TextStorage GetDocumentStorageMethod()
```

### Return value

The text storage method being used by the project as a TextStorage value.

## GetFilePathDisplayMode

Returns how filepaths are displayed in the lists.

```
FilePathDisplayMode GetFilePathDisplayMode()
```

### Return value

The filepaths display of the lists as a FilePathDisplayMode value.

## GetMinDocWordCountForBatch

Returns the minimum number of words that a document must have to be included in the project.

```
integer GetMinDocWordCountForBatch()
```

### Return value

The minimum number of words that a document must have to be included in the project.

## GetParagraphsParsingMethod

Returns how hard returns help determine how paragraphs and sentences are detected.

```
ParagraphParse GetParagraphsParsingMethod()
```

## Return value

The paragraph parsing method.

## GetProjectLanguage

Returns the language of the project.

```
Language GetProjectLanguage()
```

## Return value

The language of the project as a Language value.

## GetTitle

Returns the title of the project.

```
string GetTitle()
```

## Return value

The title of the project.

## Reload

Reanalyzes the project's documents.

```
Reload()
```

## See also

DelayReloading()

## SelectWindow

Selects a window in the project.

```
SelectWindow(SideBarSection,  
             WindowId)
```

## Parameters

Parameter	Description
SideBarSection	The section of the project that the window is in.
WindowId	The ID of the window to select.

## SetAppendedDocumentFilePath

Specifies the file path to the document being appended for analysis.

```
SetAppendedDocumentFilePath(FilePath)
```

## Parameters

Parameter	Description
FilePath	The file path to the document being appended for analysis.

## SetBlockExclusionTags

Specifies a pair of tags that will exclude all text between them.

```
SetBlockExclusionTags(Tags)
```

## Parameters

Parameter	Description
Tags	The pair of tags that will exclude all text between them.

### Note

Pass in an empty string to turn off this option.

### Tip

This can be optimized by placing it in between calls to **DelayReloading()** and **Reload()**.

## SetDocumentStorageMethod

Sets whether the project embeds its documents or links to them.

```
SetDocumentStorageMethod(TextStorage)
```

## Parameters

Parameter	Description
TextStorage	The text storage method to use for the project.

## SetFilePathDisplayMode

Sets how filepaths are displayed in the lists.

```
SetFilePathDisplayMode(FilePathDisplayMode)
```

## Parameters

Parameter	Description
FilePathDisplayMode	The filepath display to use for the project's lists.

## SetGraphBackgroundColor

Sets the background color for all graphs.

```
SetGraphBackgroundColor(Red,Green,Blue)
```

## Parameters

Parameter	Description
Red	The red channel of the color.
Green	The green channel of the color.
Blue	The blue channel of the color.

## SetGraphBackgroundImage

Sets the image to be used for graph backgrounds.

```
SetGraphBackgroundImage(ImageFilePath)
```

## Parameters

Parameter	Description
ImageFilePath	The filepath of the image to use for the graph's backgrounds.

## SetGraphBackgroundOpacity

Sets the opacity of graph backgrounds.

```
SetGraphBackgroundOpacity(OpacityLevel)
```

### Parameters

Parameter	Description
OpacityLevel	The opacity of graph backgrounds. 0 is fully transparent, and 255 is opaque.

## SetGraphLogoImage

Sets the image to be used for a logo on all graphs.

```
SetGraphLogoImage(ImageFilePath)
```

### Parameters

Parameter	Description
ImageFilePath	The filepath to the image to be used for a logo on all graphs.

## SetGraphWatermark

Sets the watermark to be written across graphs.

```
SetGraphWatermark(Label)
```

### Parameters

Parameter	Description
Label	The watermark to be written across graphs.



## SetIncludeIncompleteTolerance

Specifies the minimum number of words that will make a sentence missing terminating punctuation be considered complete.

```
SetIncludeIncompleteTolerance(WordCount)
```

### Parameters

Parameter	Description
WordCount	The minimum number of words that will make a sentence missing terminating punctuation be considered complete.

## SetMinDocWordCountForBatch

Sets the minimum number of words that a document must have to be included in the project.

```
SetMinDocWordCountForBatch(Count)
```

### Parameters

Parameter	Description
Count	The minimum number of words that a document must have to be included in the project.

## SetParagraphsParsingMethod

Sets how hard returns help determine how paragraphs and sentences are detected.

```
SetParagraphsParsingMethod(ParagraphParse)
```

### Parameters

Parameter	Description
ParagraphParse	The paragraph parsing method.

## SetPhraseExclusionList

Sets the filepath to the list of phrases and words that should be excluded from analysis.

```
SetPhraseExclusionList(FilePath)
```

## Parameters

Parameter	Description
FilePath	The filepath to the list of phrases and words that should be excluded from analysis.

## SetPlotBackgroundColor

Sets the plot area color for all graphs.

```
SetPlotBackgroundColor(Red,Green,Blue)
```

## Parameters

Parameter	Description
Red	The red channel of the color.
Green	The green channel of the color.
Blue	The blue channel of the color.

## SetPlotBackgroundOpacity

Sets the opacity of graph plot areas.

```
SetPlotBackgroundOpacity(OpacityLevel)
```

## Parameters

Parameter	Description
OpacityLevel	The opacity of graph backgrounds. 0 is fully transparent, and 255 is opaque.

## SetProjectLanguage

Changes the language for project. This will affect syllable counting and also which tests are available.

```
SetProjectLanguage(Language)
```

## Parameters

Parameter	Description
Language	The Language to set the project to.

## SetReviewer

Sets the user name for the software. This will appear in some output when exporting.

## Syntax

```
SetReviewer(string name)
```

## Parameters

Parameter	Description
name	The user name for the software.

## SetSpellCheckerOptions

Sets which items the spell checker should ignore.

```
SetSpellCheckerOptions(IgnoreProperNouns,
                       IgnoreUppercased,
                       IgnoreNumerals,
                       IgnoreFileAddresses,
                       IgnoreProgrammerCode,
                       AllowColloquialisms)
```

## Parameters

Parameter	Description
IgnoreProperNouns	Set to <b>true</b> to ignore proper nouns.
IgnoreUppercased	Set to <b>true</b> to ignore words that are in all caps.
IgnoreNumerals	Set to <b>true</b> to ignore numeric words.
IgnoreFileAddresses	Set to <b>true</b> to ignore words that are filepaths.
IgnoreProgrammerCode	Set to <b>true</b> to ignore words appear to be programming code.
AllowColloquialisms	Set to <b>true</b> to ignore colloquialisms.

## SetStippleImage

Sets the image to be used for custom brushes.

```
SetStippleImage(ImageFilePath)
```

## Parameters

Parameter	Description
ImageFilePath	The filepath to the image to be used for custom brushes.

## SetTextExclusion

Specifies how text should be excluded while parsing the source document.

```
SetTextExclusion(TextExclusionType)
```

## Parameters

Parameter	Description
TextExclusionType	With text exclusion method to use for the project.

### 💡 Tip

This can be optimized by placing it in between calls to **DelayReloading()** and **Reload()**.

## SetWindowSize

Resizes the project's window size to the specified width and height.

```
SetWindowSize(Width,Height)
```

## Parameters

Parameter	Description
Width	The project window width.
Height	The project window height.

## ShowSidebar

Show or hides the project's sidebar.

```
ShowSidebar(boolean show)
```

### Parameters

Parameter	Description
show	<b>true</b> to show the sidebar, <b>false</b> to hide it.

## SortList

Sorts the specified list using a series of columns and sorting orders.

```
SortList(ListType,  
        ColumnToSort,  
        SortOrder,  
        ...)
```

### Parameters

Parameter	Description
ListType	The list to sort.
ColumnToSort	The column to sort by.
SortOrder	The sorting direction to use.
...	Any additional sets of columns and sort orders to use.



## Chapter 3

# StandardProject

Provides the functionality of a standard project. Standard projects analyze a single document and provides numerous results related to readability and other style metrics.

Note that changing various features of a project once it has been loaded will cause it to re-analyze its document. As an optimization, this analysis can be delayed until all these features have been changed. This is done by:

- calling **DelayReloading()**
- calling any functions that require a re-analysis
- and finally calling **Reload()**

For example:

```
-- Opens a document from user's "Documents" folder
-- and changes a few options.
consentForm = StandardProject(Application.GetDocumentsPath() ..
                               "Consent Form.docx")

-- Delay reloading.
consentForm:DelayReloading(true)
-- Change a few options.
consentForm:AggressivelyExclude(true)
consentForm:ExcludeTrailingCitations(true)
-- Reindex the document so that the changes take effect.
consentForm:Reload()

-- assuming we have a custom test by this name.
consentForm:AddTest("Patient Consent Formula")
```

## AddTest

Adds a test to the project.

### Syntax

```
boolean AddTest(Test (or string) test)
```

### Parameters

Parameter	Description
test	<b>Test</b> or The ID of the test to add. (For a custom test, use the name of the test.)

### Return value

Type: `boolean`

`true` if the test was successfully added; otherwise, `false`.

### Example

```
-- Opens a document from user's "Documents" folder
-- and adds some tests.
consentForm = StandardProject(Application.GetDocumentsPath() ..
                              "Consent Form.docx")

consentForm:AddTest(Tests.DanielsonBryan1)
consentForm:AddTest(Tests.DanielsonBryan2)
-- assuming we have a custom test by this name.
consentForm:AddTest("Patient Consent Formula")
```

---



## AggressivelyExclude

Specifies whether to use aggressive text exclusion.

### Syntax

```
AggressivelyExclude(boolean beAggressive)
```

### Parameters

Parameter	Description
beAggressive	Set to <b>true</b> to use aggressive text exclusion.

#### Tip

This can be optimized by placing it in between calls to **DelayReloading()** and **Reload()**.

---

## ApplyGraphBackgroundColorFade

Specifies whether to use a color fade across graph backgrounds.

### Syntax

```
ApplyGraphBackgroundColorFade(boolean useColorFade)
```

### Parameters

Parameter	Description
useColorFade	<b>true</b> to use a color fade across graph backgrounds.

## Close

Closes the project.

### Syntax

```
Close(boolean saveChanges)
```

### Parameters

Parameter	Description
saveChanges	Specifies whether to save any changes made to the project. The default is <b>false</b> .

### Example

```
-- Open a project from the user's "Documents" folder and save its scores summary
consentForm = StandardProject(Application.GetDocumentsPath() ..
                             "Consent Form.rsp")
consentForm.ExportReport(ReportType.ReadabilityScoresTabularReport,
                        Application.GetDocumentsPath() .. "Review/ConsentScoresSummary.htm")
-- Close, don't bother saving.
consentForm.Close(false)
```

## DelayReloading

Prevents a project from updating while settings are being changed. This will require an explicit call to **Reload()** for the changes to take affect. This is efficient for when multiple settings are being altered at once.

### Syntax

```
DelayReloading(boolean delay)
```

### Parameters

Parameter	Description
delay	Specifies whether to delay reloading the project.

### Example

```
-- Opens a document from user's "Documents" folder
-- and changes a few options.
consentForm = StandardProject(Application.GetDocumentsPath() ..
```

```

"Consent Form.docx")

-- Delay reloading.
consentForm:DelayReloading(true)
-- Change a few options.
consentForm:AggressivelyExclude(true)
consentForm:ExcludeTrailingCitations(true)
consentForm:ExcludeNumerals(true)
-- Reindex the document so that the changes take effect.
consentForm:Reload()

-- assuming we have a custom test by this name.
consentForm:AddTest("Patient Consent Formula")

```

---

## DisplayGraphDropShadows

Specifies whether to use shadows underneath items (such as bars) on all the graphs.

### Syntax

```
DisplayGraphDropShadows(boolean useShadows)
```

### Parameters

Parameter	Description
useShadows	<b>true</b> to use shadows underneath items (such as bars) on all the graphs.

---

## ExcludeCopyrightNotices

Specifies whether to exclude copyright notices.

### Syntax

```
ExcludeCopyrightNotices(boolean exclude)
```

### Parameters

Parameter	Description
exclude	<b>true</b> to exclude copyright notices.

**💡 Tip**

This can be optimized by placing it in between calls to **DelayReloading()** and **Reload()**.

## ExcludeFileAddress

Specifies whether to exclude filepaths and URLs.

### Syntax

```
ExcludeFileAddress(boolean exclude)
```

### Parameters

Parameter	Description
exclude	true to exclude filepaths and URLs.

### Example

```
-- Opens a document from user's "Documents" folder
-- and changes a few options.
consentForm = StandardProject(Application.GetDocumentsPath() ..
                              "Consent Form.docx")

-- Delay reloading.
consentForm:DelayReloading(true)
-- Change a few options.
consentForm:AggressivelyExclude(true)
consentForm:ExcludeTrailingCitations(true)
consentForm:ExcludeNumerals(true)
consentForm:ExcludeFileAddress(true)
-- Reindex the document so that the changes take effect.
consentForm:Reload()

-- assuming we have a custom test by this name.
consentForm:AddTest("Patient Consent Formula")
```

**💡 Tip**

This can be optimized by placing it in between calls to **DelayReloading()** and **Reload()**.

## ExcludeNumerals

Specifies whether to exclude numerals.

### Syntax

```
ExcludeNumerals(boolean exclude)
```

### Parameters

Parameter	Description
exclude	true to exclude numerals.

### Example

```
-- Opens a document from user's "Documents" folder
-- and changes a few options.
consentForm = StandardProject(Application.GetDocumentsPath() ..
                              "Consent Form.docx")

-- Delay reloading.
consentForm:DelayReloading(true)
-- Change a few options.
consentForm:AggressivelyExclude(true)
consentForm:ExcludeTrailingCitations(true)
consentForm:ExcludeNumerals(true)
-- Reindex the document so that the changes take effect.
consentForm:Reload()

-- assuming we have a custom test by this name.
consentForm:AddTest("Patient Consent Formula")
```

#### Tip

This can be optimized by placing it in between calls to **DelayReloading()** and **Reload()**.

## ExcludeProperNouns

Specifies whether to exclude proper nouns.

### Syntax

```
ExcludeProperNouns(boolean exclude)
```

### Parameters

Parameter	Description
exclude	<b>true</b> to exclude proper nouns.

### Example

```
-- Opens a document from user's "Documents" folder
-- and changes a few options.
consentForm = StandardProject(Application.GetDocumentsPath() ..
                             "Consent Form.docx")

-- Delay reloading.
consentForm:DelayReloading(true)
-- Change a few options.
consentForm:AggressivelyExclude(true)
consentForm:ExcludeTrailingCitations(true)
consentForm:ExcludeProperNouns(true)
-- Reindex the document so that the changes take effect.
consentForm:Reload()

-- assuming we have a custom test by this name.
consentForm:AddTest("Patient Consent Formula")
```

#### Tip

This can be optimized by placing it in between calls to **DelayReloading()** and **Reload()**.

## ExcludeTrailingCitations

Specifies whether to exclude trailing citations.

### Syntax

```
ExcludeTrailingCitations(boolean exclude)
```

### Parameters

Parameter	Description
exclude	true to exclude trailing citations.

### Example

```
-- Opens a document from user's "Documents" folder
-- and changes a few options.
consentForm = StandardProject(Application.GetDocumentsPath() ..
                              "Consent Form.docx")

-- Delay reloading.
consentForm:DelayReloading(true)
-- Change a few options.
consentForm:AggressivelyExclude(true)
consentForm:ExcludeTrailingCitations(true)
-- Reindex the document so that the changes take effect.
consentForm:Reload()

-- assuming we have a custom test by this name.
consentForm:AddTest("Patient Consent Formula")
```

#### 💡 Tip

This can be optimized by placing it in between calls to **DelayReloading()** and **Reload()**.

## ExportAll

Exports the project's results to the specified folder.

### Syntax

```
ExportAll(string outputFolder)
```

### Parameters

Parameter	Description
outputFolder	The folder to save the project's results.

## ExportFilteredText

Saves a copy of the project's document with excluded text (and other optional items) filtered out. Returns `true` if successful.

### Syntax

```
ExportFilteredText(string outputPath,  
                  boolean romanizeText,  
                  boolean removeEllipses,  
                  boolean removeBullets,  
                  boolean removeFilePaths,  
                  boolean stripAbbreviations)
```

### Parameters

Parameter	Description
outputFilePath	The folder to save the filtered document.
romanizeText	Whether to converted extended ASCII characters to simpler versions (e.g., replacing smart quotes with straight quotes)
removeEllipses	Whether to remove ellipses.
removeBullets	Whether to remove bullets.
removeFilePaths	Whether to remove filepaths.
stripAbbreviations	Whether to remove the trailing periods off of abbreviations.



## ExportGraph

Saves the specified graph as an image.

### Syntax

```
ExportGraph(GraphType type,
            string outputFilePath,
            boolean grayScale,
            number width,
            number height)
```

### Parameters

Parameter	Description
type	The graph to export.
outputFilePath	The folder to save the graph.
grayScale	(Optional) Set to <code>true</code> to save the image as black & white.
width	(Optional) Specifies the width of the image.
height	(Optional) Specifies the height of the image.

### Example

```
-- Opens a document from user's "Documents" folder,
-- exports 3 of its graphs, then closes the project.
recipe = StandardProject(Application.GetDocumentsPath() .. "Turkey Brining.docx")

recipe:ExportGraph(GraphType.SentenceBoxPlox,
                  Application.GetDocumentsPath() .. "Review/RecipeSentBoxPlot.png")

recipe:ExportGraph(GraphType.WordBarChart,
                  Application.GetDocumentsPath() .. "Review/RecipeWordBarChart.png",
                  -- save it as black & white
                  true)

recipe:ExportGraph(GraphType.SyllableHistogram,
                  Application.GetDocumentsPath() .. "Review/RecipeSyllableHistogram.png",
                  -- color image
                  false,
                  -- 500 pixels wide
                  -- (height will be adjusted to maintain aspect ratio)
                  500)

recipe:Close()
```

## ExportHighlightedWords

Saves the specified highlighted words as an RTF or HTML report.

### Syntax

```
ExportHighlightedWords(HighlightedWordReportType type,
                      string outputFilePath)
```

### Parameters

Parameter	Description
type	The highlighted text window to save.
outputFilePath	The folder to save the scores.

#### Note

Use `Application.GetTestId()` to export the highlighted-words report for a custom test (see example below).

### Example

```
-- Open a project from the user's "Documents" folder
consentForm = StandardProject(Application.GetDocumentsPath() .. "Consent Form.rsp")
-- save a highlighted report of unfamiliar words from
-- a custom test named "Patient Test"
consentForm:ExportHighlightedWords(Application.GetTestId("Patient Test"),
                                   Application.GetDocumentsPath() ..
                                   "Review/ConsentUnfamiliarWords.htm")
-- as well as a highlighted report of 3+ syllable words
consentForm:ExportHighlightedWords(HighlightedReportType.ThreePlusSyllableHighlightedWords,
                                   Application.GetDocumentsPath() ..
                                   "Review/ConsentLongWords.htm")

consentForm:Close()
```

## ExportList

Saves the specified list as an HTML, text, or LaTeX file to *OutputFilePath*.

### Syntax

```
ExportList(ListType type,
           string outputFilePath,
           number fromRow,
           number toRow,
           number fromColumn,
           number toColumn,
           boolean includeHeaders,
           boolean IncludePageBreaks)
```

### Parameters

Parameter	Description
type	The list to export.
string outputFilePath	The folder to save the list.
fromRow	(Optional) Specifies the row to begin from. The default is the first row.
toRow	(Optional) Specifies the last row. Enter -1 to specify the last row in the list.
fromColumn	(Optional) Specifies the row to column from. The default is the first column.
toColumn	(Optional) Specifies the last column. Enter -1 to specify the last column in the list.
includeHeaders	(Optional) Specifies whether to include the column headers.
includePageBreaks	(Optional) Specifies whether to insert page breaks. Note that this is only applicable if exporting as HTML.

### Example

```
-- Open a project from the user's "Documents" folder
consentForm = StandardProject(Application.GetDocumentsPath() ..
                             "Consent Form.rsp")

-- Sort the "All Words" list.
-- Will sort by the third column (Z-A sorting), and in case of a tie, then sort
-- by the second then the first column.
consentForm:SortList(ListType.AllWords,
                    3, SortOrder.SortDescending,
                    2, SortOrder.SortDescending,
                    1, SortOrder.SortDescending)

-- export the list after sorting it
consentForm:ExportList(ListType.AllWords,
                      Application.GetDocumentsPath() ..
                      "ExportList/ConsentFormAllWordsListSortedDesc.htm")

consentForm:Close()
```

---

## ExportReport

Saves the specified report.

### Syntax

```
ExportReport(ReportType type,  
             string outputFilePath)
```

### Parameters

Parameter	Description
type	The report to save.
outputFilePath	The folder to save the scores.

### Example

```
-- Open a project from the user's "Documents" folder and save its scores summary  
consentForm = StandardProject(Application.GetDocumentsPath() ..  
                              "Consent Form.rsp")  
consentForm.ExportReport(ReportType.ReadabilityScoresTabularReport,  
                        Application.GetDocumentsPath() .. "Review/ConsentScoresSummary.htm")  
-- Close, don't bother saving.  
consentForm.Close(false)
```

---

## ExportScores

Saves the project's test scores to *OutputFilePath*.

### Syntax

```
ExportScores(string outputFilePath)
```

### Parameters

Parameter	Description
outputFilePath	The folder to save the scores.

---

## Get1SyllableWordCount

Returns the number of monosyllabic words from the document.

### Syntax

```
integer Get1SyllableWordCount()
```

### Return value

Type: `integer`

The number of monosyllabic words from the document.

---

## Get3SyllablePlusWordCount

Returns the number of words consisting of three or more syllables from the document.

### Syntax

```
integer Get3SyllablePlusWordCount()
```

### Return value

Type: `integer`

The number of words consisting of three or more syllables from the document.

---

## Get6CharacterPlusWordCount

Returns the number of words consisting of six or more characters from the document.

### Syntax

```
integer Get6CharacterPlusWordCount()
```

### Return value

Type: `integer`

The number of words consisting of six or more characters from the document.

---

## Reload

Reanalyzes the project's document.

## Syntax

```
Reload()
```

## Example

```
-- Opens a document from user's "Documents" folder
-- and changes a few options.
consentForm = StandardProject(Application.GetDocumentsPath() ..
                               "Consent Form.docx")

-- Delay reloading.
consentForm:DelayReloading(true)
-- Change a few options.
consentForm:AggressivelyExclude(true)
consentForm:ExcludeTrailingCitations(true)
consentForm:ExcludeNumerals(true)
-- Reindex the document so that the changes take effect.
consentForm:Reload()

-- assuming we have a custom test by this name.
consentForm:AddTest("Patient Consent Formula")
```

## See also

DelayReloading()

---

## SetAppendedDocumentFilePath

Specifies the file path to the document being appended for analysis.

### Syntax

```
SetAppendedDocumentFilePath(string filePath)
```

### Parameters

Parameter	Description
string filePath	The file path to the document being appended for analysis.

### Example

```
-- Open a project from the user's "Documents" folder
consentForm = StandardProject(Application.GetDocumentsPath() ..
                              "Consent Form.docx")

-- Add an addendum to the document.
consentForm.SetAppendedDocumentFilePath(
    Application.GetDocumentsPath() ..
    "Addendum.docx")

consentForm.Close(false)
```

#### Tip

This can be optimized by placing it in between calls to **DelayReloading()** and **Reload()**.

## SetBlockExclusionTags

Specifies a pair of tags that will exclude all text between them.

### Syntax

```
SetBlockExclusionTags(string tags)
```

### Parameters

Parameter	Description
tags	String containing a pair of tags that will have all text between them excluded.

#### Note

Pass in an empty string to turn off this option.

#### Tip

This can be optimized by placing it in between calls to **DelayReloading()** and **Reload()**.

---

## SetReviewer

Sets the user name for the software. This will appear in some output when exporting.

### Syntax

```
SetReviewer(string name)
```

### Parameters

Parameter	Description
name	The user name for the software.



## SetTextExclusion

Specifies how text should be excluded while parsing the source document.

### Syntax

```
SetTextExclusion(TextExclusionType exclusionType)
```

### Parameters

Parameter	Description
exclusionType	With text exclusion method to use for the project.

#### Tip

This can be optimized by placing it in between calls to **DelayReloading()** and **Reload()**.

---

## ShowSidebar

Show or hides the project's sidebar.

```
ShowSidebar(boolean show)
```

### Parameters

Parameter	Description
show	<b>true</b> to show the sidebar, <b>false</b> to hide it.

## SortList

Sorts the specified list using a series of columns and sorting orders.

### Syntax

```
SortList(ListType list,  
         number columnToSort,  
         SortOrder order,  
         ...)
```

### Parameters

Parameter	Description
list	The list to sort.
columnToSort	The column to sort by.
order	The sorting direction to use.
...	Any additional pairs of columns and sort orders to use.

### Example

```
-- Open a project from the user's "Documents" folder  
consentForm = StandardProject(Application.GetDocumentsPath() ..  
                             "Consent Form.rsp")  
  
-- Sort the "All Words" list.  
-- Will sort by the third column (Z-A sorting), and in case of a tie, then sort  
-- by the second then the first column.  
consentForm:SortList(ListType.AllWords,  
                     3, SortOrder.SortDescending,  
                     2, SortOrder.SortDescending,  
                     1, SortOrder.SortDescending)  
  
-- export the list after sorting it  
consentForm:ExportList(ListType.AllWords,  
                       Application.GetDocumentsPath() ..  
                           "ExportList/ChristmasCarolAllWordsListSortedDesc.htm")  
  
consentForm:Close()
```

# **Part II**

# **Libraries**



## Chapter 4

# Application

Provides access to the program's functionality. This includes features such as:

- General settings
- Active projects
- Extended functionality (e.g., web harvesting, data validation, file management)
- Logging system

## AggressivelyExclude

Specifies whether to use aggressive text exclusion.

### Syntax

```
AggressivelyExclude(boolean beAggressive)
```

### Parameters

Parameter	Description
beAggressive	Specifies whether to use aggressive text exclusion.

### Example

```
-- Change various program options.
Application.AggressiveExclude(true)
Application.ExcludeCopyrightNotices(true)
Application.ExcludeFileAddress(true)
Application.ExcludeNumerals(true)
Application.ExcludeProperNouns(true)
Application.ExcludeTrailingCitations(true)
Application.EnableWarning("document-less-than-100-word")
```

## ApplyGraphBackgroundFade

Specifies whether to use a color fade on graph backgrounds.

### Syntax

```
ApplyGraphBackgroundFade(boolean useColorFade)
```

### Parameters

Parameter	Description
useColorFade	Whether to use a color fade on graph backgrounds.

## CheckHtmlLinks

Checks for broken links and bad image sizes in a folder of HTML files.

### Syntax

```
CheckHtmlLinks(string folderPath,  
                boolean followExternalLinks)
```

### Parameters

Parameter	Description
folderPath	The folder containing the HTML files to review.
followExternalLinks	Whether to verify links going outside of the folder being reviewed.

#### Note

Issues are recorded into the program's log. View the log report(**Log Report** on the **Tools** tab) to see any issues that were found after calling this.

## Close

Closes the program.

### Syntax

```
Close()
```

## DisableAllWarnings

Suppresses most warnings and prompts throughout the program.

### Syntax

```
DisableAllWarnings()
```

## DisableWarning

Disables the specified warning.

### Syntax

```
DisableWarning(string WarningId)
```

Parameter	Description
WarningId	The warning's string ID.

Refer to **EnableWarning()** for a list of warning IDs.

## DisplayGraphDropShadows

Specifies whether to use shadows underneath items (such as bars) on all the graphs.

### Syntax

```
DisplayGraphDropShadows(boolean useShadows)
```

### Parameters

Parameter	Description
useShadows	Whether to use shadows underneath items (such as bars) on all the graphs.

## DownloadFile

Downloads a file into the specified folder.

### Syntax

```
DownloadFile(string fileToDownload,
             string folderToDownloadTo)
```

### Parameters

Parameter	Description
fileToDownload	The file to download.
folderToDownloadTo	The folder to download the file into.

## EnableAllWarnings

Enables all warnings and prompts throughout the program.

### Syntax

```
EnableAllWarnings()
```

## EnableWarning

Enables the specified warning.

### Syntax

```
EnableWarning(string warningId)
```

Parameter	Description
warningId	The warning's string ID.

The following warning IDs are available:

ID	Description
project-open-as-read-only	Warn about projects being opened as read-only.
remove-test-from-project	Prompt when removing a test from a project.



ID	Description
delete-document-from-batch	Prompt when removing a document from a batch project.
document-less-than-20-words	Prompt about documents containing less than 20 words.
document-less-than-100-words	Warn about documents containing less than 100 words.
sentences-split-by-paragraph-breaks	Warn about documents that contain sentences split by paragraph breaks.
incomplete-sentences-valid-from-length	Warn about documents that contain long incomplete sentences that will be included in the analysis.
high-count-sentences-being-ignored	Prompt if a document should switch to include sentences in the analysis.
ndc-proper-noun-conflict	Prompt if a custom NDC test's proper noun settings differ from the standard NDC test.
new-dale-chall-text-exclusion-differs-note	Prompt about New Dale-Chall using a different text exclusion method from the system default.
harris-jacobson-text-exclusion-differs-note	Prompt about Harris-Jacobson using a different text exclusion method from the system default.
custom-test-numeral-settings-adjustment-required	Warn when a custom test's numeral settings will be adjusted.
german-no-proper-noun-support	Warn about German stemming not supporting proper noun detection.
histogram-unique-values-midpoints-required	Warn about unique-value histograms requiring midpoint axis labels.
file-autosearch-from-project-directory	Prompt about auto-searching for missing files.
linked-document-is-embedded	Prompt about re-linking to a document that has been embedded.
no-embedded-text	Prompt about failing to load a project that is missing its embedded text.
clear-type-turned-off	Check to see if ClearType is turned on (Windows only).
note-export-from-save	Prompt about how windows can be exported from the Save button.
click-test-to-view	Prompt about how double-clicking a test can show its help.
bkimage-zoomin-noupscale	Prompt about how background images will not be upscaled beyond their original size when zooming into a graph.
note-project-properties	Prompt about how settings are embedded in projects and how to edit them.
batch-goals	Prompt about how the Goals window works in a batch project.
prompt-for-batch-label	Prompt for labels when adding documents to a batch project.

## ExcludeCopyrightNotices

Specifies whether to exclude copyright notices from the document analysis.

### Syntax

```
ExcludeCopyrightNotices(boolean exclude)
```

### Parameters

Parameter	Description
exclude	<b>true</b> to exclude copyright notices, <b>false</b> to include them.

## ExcludeFileAddress

Specifies whether to exclude filepaths and URLs from the document analysis.

### Syntax

```
ExcludeFileAddress(boolean exclude)
```

### Parameters

Parameter	Description
exclude	<b>true</b> to exclude filepaths and URLs, <b>false</b> to include them.

## ExcludeNumerals

Specifies whether to exclude numerals from the document analysis.

### Syntax

```
ExcludeNumerals(boolean exclude)
```

### Parameters

Parameter	Description
exclude	<b>true</b> to exclude numerals, <b>false</b> to include them.

## ExcludeProperNouns

Specifies whether to exclude proper nouns from the document analysis.

### Syntax

```
ExcludeProperNouns(boolean exclude)
```

### Parameters

Parameter	Description
exclude	<b>true</b> to exclude proper nouns, <b>false</b> to include them.

## ExcludeTrailingCitations

Specifies whether to exclude trailing citations from the document analysis.

### Syntax

```
ExcludeTrailingCitations(boolean exclude)
```

### Parameters

Parameter	Description
exclude	<b>true</b> to exclude trailing citations, <b>false</b> to include them.

## ExportSettings

Exports the program's general settings to the specified file.

### Syntax

```
boolean ExportSettings(string settingsFileToExport)
```

### Parameters

Parameter	Description
settingsFileToExport	The filepath to save the program's settings to.

### Return value

Type: `boolean`

Returns `true` if settings were successfully exported.

---

## FindFiles

Searches the specified folder (recursively) for files matching the given file filter (e.g., "\*.docx") and returns the retrieved filepaths.

### Syntax

```
table FindFiles(string folderPath,  
                string fileFilter)
```

### Parameters

Parameter	Description
folderPath	The folder to search in.
fileFilter	The file pattern to search for.

### Return value

Type: `table`

A table listing the files.

---

## GetAbsolutePath

Combines a base path with a relative path and returns the full file path.

### Syntax

```
string GetAbsolutePath(string basePath
                      string relativePath)
```

### Parameters

Parameter	Description
basePath	The full base path.
relativePath	The path of the file that is relative to the base path.

### Return value

Type: `string`

The full file path.

### Example

```
-- Assuming that there is a file "ProfileReport.txt"
-- in the folder "Mizzie/Documents" 2 levels up from
-- where the current script is running, this will print
-- the full path of where "ProfileReport.txt" is at.
Debug.Print(
    Application.GetAbsolutePath(
        Debug.GetScriptFolderPath(),
        "../../Mizzie/Documents/ProfileReport.txt"))
```

---

## GetActiveBatchProject

Returns the active batch project.

### Syntax

```
BatchProject GetActiveBatchProject()
```

### Return value

Type: `BatchProject`

The active batch project.

---

## GetActiveStandardProject

Returns the active standard project.

### Syntax

```
StandardProject GetActiveStandardProject()
```

### Return value

Type: StandardProject

The active standard project.

---

## GetDocumentsPath

Returns the path to the user's documents folder.

### Syntax

```
string GetDocumentsPath()
```

### Return value

Type: `string`

The path to the user's documents folder.

---

## GetDocumentStorageMethod

Returns whether projects embed their documents or link to them.

### Syntax

```
TextStorage GetDocumentStorageMethod()
```

### Return value

Type: TextStorage

How projects are embedding or linking to their source.

---

## GetFilePathDisplayMode

Returns how filepaths are displayed in batch projects.

### Syntax

```
FilePathDisplayMode GetFilePathDisplayMode()
```

### Return value

Type: `FilePathDisplayMode`

How filepaths are being displayed.

---

## GetImageInfo

Returns the details of a given file.

### Syntax

```
table GetImageInfo(string imagePath)
```

### Parameters

Parameter	Description
<code>imagePath</code>	The file path of the image.

### Return value

Type: `table`

A two-column table of the image's information.

### Example

```
info = Application.GetImageInfo("C:\\images\\GraphLogo.png")

-- print information about an image
for i,v in pairs(info)
do
    Debug.Print("<b>..i..</b>: "..v)
end
```

---

## GetMinDocWordCountForBatch

Returns the minimum number of words that a document must have to be included in batch projects.

### Syntax

```
integer GetMinDocWordCountForBatch()
```

### Return value

Type: `number`

The minimum number of words that a document must have to be included in batch projects.

---

## GetParagraphsParsingMethod

Returns how hard returns help determine how paragraphs and sentences are detected.

### Syntax

```
ParagraphParse GetParagraphsParsingMethod()
```

### Return value

Type: `ParagraphParse`

The paragraph parsing method.

---

## GetProgramPath

Returns the folder path to the application.

### Syntax

```
string GetProgramPath()
```

### Return value

Type: `string`

The folder path to the application.

---



## GetProjectLanguage

Returns the default language for new projects.

### Syntax

```
Language GetProjectLanguage()
```

### Return value

Type: `Language`

The default language for new projects.

---

## GetReviewer

Returns the user name for the software.

### Syntax

```
string GetReviewer()
```

### Return value

Type: `string`

The user name for the software.

---

## GetTestId

Returns the numeric ID of a test, which should be passed in as a string. This function can be used to find a custom test's window.

### Syntax

```
integer GetTestId(string testName)
```

### Parameters

Parameter	Description
testName	The name of the test.

### Return value

Type: `number`

The numeric ID of the test. Will be `-1` if test was not found.

---

## ImportSettings

Imports the specified settings file, which will configure the general options of the program.

### Syntax

```
boolean ImportSettings(string settingsFileToImport)
```

### Parameters

Parameter	Description
settingsFileToImport	The filepath to import the program's settings from.

### Return value

Type: `boolean`

Returns `true` if settings were successfully imported.

---

## LogError

Sends an error message to program's logging system.

### Syntax

```
LogError(string errorMessage)
```

### Parameters

Parameter	Description
errorMessage	The error message to log.

## LogMessage

Sends a message to program's logging system.

### Syntax

```
LogMessage(string message)
```

### Parameters

Parameter	Description
message	The message to log.

## MergeWordLists

Merges multiple word lists into an output file.

### Syntax

```
boolean MergeWordLists(string outputPath,
                       string input1,
                       string input2,
                       ...)
```

### Parameters

Parameter	Description
outputFilePath	The output filepaths to merge the files into.
input1,input2,...	A list of files to be merged into <i>outputFilePath</i> .

### Return value

Type: boolean

Returns **true** if files were successfully merged.

## MsgBox

Displays a message (with optional title).

### Syntax

```
MsgBox(string message,
       string title)
```

### Parameters

Parameter	Description
message	The message to show.
title	(Optional) The title of the message box.

## RemoveAllCustomTestBundles

Removes all custom test bundles from the program.

### Syntax

```
RemoveAllCustomTestBundles()
```

---

## RemoveAllCustomTests

Removes all custom tests from the program.

### Syntax

```
RemoveAllCustomTests()
```

---

## ResetSettings

Resets the program's settings.

### Syntax

```
ResetSettings()
```

---

## SetBarChartBarColor

Sets the bar color for bar charts. The color is created by specifying the red, blue, and green channels of the color. (Values should be between **0** - **255**.)

### Syntax

```
SetBarChartBarColor(number red,  
                    number green,  
                    number blue)
```

### Parameters

---

Parameter	Description
red	The red channel of the color.
green	The green channel of the color.
blue	The blue channel of the color.

---

## SetBarChartBarEffect

Sets the effect used to display bars in bar charts.

### Syntax

```
SetBarChartBarEffect(BarEffect effect)
```

### Parameters

Parameter	Description
effect	The effect used to display bars in bar charts.

## SetBarChartBarOpacity

Sets the opacity of bar chart bars. **0** is fully transparent, and **255** is opaque. (Values should be between **0** - **255**.)

### Syntax

```
SetBarChartBarOpacity(number opacityLevel)
```

### Parameters

Parameter	Description
opacityLevel	The opacity of bar chart bars.

## SetBarChartOrientation

Sets the bar charts' orientation.

### Syntax

```
SetBarChartOrientation(Orientation orientation)
```

### Parameters

Parameter	Description
orientation	The bar charts' orientation.

## SetBlockExclusionTags

Specifies a pair of tags that will have all text between them excluded from the analysis.

### Syntax

```
SetBlockExclusionTags(string tags)
```

### Parameters

Parameter	Description
tags	A two-character string containing a pair of exclusion tags.

#### Note

Pass in an empty string to turn off this option.

## SetCenterPrintFooter

Sets the label to appear in the center bottom of printouts.

### Syntax

```
SetCenterPrintFooter(string label)
```

### Parameters

Parameter	Description
label	The label to appear in the center bottom of printouts.

### Example

```
-- Set headers and footers for printouts.  
Application.SetLeftPrintHeader("")  
Application.SetCenterPrintHeader("@TITLE@")  
Application.SetRightPrintHeader("Page @PAGENUM@ of @PAGESCNT@")  
  
Application.SetRightPrintFooter("Page @PAGENUM@")  
Application.SetCenterPrintFooter("")  
Application.SetRightPrintFooter("Printed on @DATE@")
```

## SetCenterPrintHeader

Sets the label to appear in the center top of printouts.

### Syntax

```
SetCenterPrintHeader(string label)
```

### Parameters

Parameter	Description
label	The label to appear in the center top of printouts.

### Example

```
-- Set headers and footers for printouts.  
Application.SetLeftPrintHeader("")  
Application.SetCenterPrintHeader("@TITLE@")  
Application.SetRightPrintHeader("Page @PAGENUM@ of @PAGESCNT@")  
  
Application.SetRightPrintFooter("Page @PAGENUM@")  
Application.SetCenterPrintFooter("")  
Application.SetRightPrintFooter("Printed on @DATE@")
```

---

## SetDocumentStorageMethod

Sets whether projects embed their source documents or link to them.

### Syntax

```
SetDocumentStorageMethod(TextStorage textStorage)
```

### Parameters

Parameter	Description
textStorage	How projects should embed or link to their documents.

---



## SetFilePathDisplayMode

Sets how filepaths are displayed in the lists for batch projects.

### Syntax

```
SetFilePathDisplayMode(FilePathDisplayMode filePathDisplayMode)
```

### Parameters

Parameter	Description
filePathDisplayMode	How filepaths should be displayed.

## SetGraphBackgroundColor

Sets the background color for all graphs. The color is created by specifying the red, blue, and green channels of the color. (Values should be between **0** - **255**.)

### Syntax

```
SetGraphBackgroundColor(number red,  
                        number green,  
                        number blue)
```

### Parameters

Parameter	Description
red	The red channel of the color.
green	The green channel of the color.
blue	The blue channel of the color.

## SetGraphBackgroundImage

Sets the image to be used for graph backgrounds.

### Syntax

```
SetGraphBackgroundImage(string imagePath)
```

### Parameters

Parameter	Description
imageFilePath	The filepath to the image to use for graph backgrounds.

## SetGraphBackgroundOpacity

Sets the opacity of graph backgrounds. **0** is fully transparent, and **255** is opaque.

### Syntax

```
SetGraphBackgroundOpacity(number opacityLevel)
```

### Parameters

Parameter	Description
opacityLevel	The opacity of graph backgrounds.

## SetGraphCustomBrushImage

Sets the image to be used for custom brushes.

### Syntax

```
SetGraphCustomBrushImage(string imagePath)
```

### Parameters

Parameter	Description
imageFilePath	The filepath to the image to use for custom brushes.

## SetGraphLogoImage

Sets the image to be used for a logo on all graphs.

### Syntax

```
SetGraphLogoImage(string imagePath)
```

### Parameters

Parameter	Description
imageFilePath	The filepath to the image to use for graph logos.

## SetGraphWatermark

Sets the watermark to be written across graphs.

### Syntax

```
SetGraphWatermark(string label)
```

### Parameters

Parameter	Description
label	The text to draw across the graphs.

## SetIncludeIncompleteTolerance

Specifies the minimum number of words that will make a sentence missing terminating punctuation be considered complete.

### Syntax

```
SetIncludeIncompleteTolerance(number wordCount)
```

### Parameters

Parameter	Description
wordCount	The minimum number of words that will make a sentence missing terminating punctuation be considered complete.

## SetLeftPrintFooter

Sets the label to appear in the bottom left corner of printouts.

### Syntax

```
SetLeftPrintFooter(string label)
```

### Parameters

Parameter	Description
label	The label to appear in the bottom left corner of printouts.

### Example

```
-- Set headers and footers for printouts.  
Application.SetLeftPrintHeader("")  
Application.SetCenterPrintHeader("@TITLE@")  
Application.SetRightPrintHeader("Page @PAGENUM@ of @PAGESCNT@")  
  
Application.SetRightPrintFooter("Page @PAGENUM@")  
Application.SetCenterPrintFooter("")  
Application.SetRightPrintFooter("Printed on @DATE@")
```

---

## SetLeftPrintHeader

Sets the label to appear in the top left corner of printouts.

### Syntax

```
SetLeftPrintHeader(string label)
```

### Parameters

Parameter	Description
label	The label to appear in the top left corner of printouts.

### Example

```
-- Set headers and footers for printouts.  
Application.SetLeftPrintHeader("")  
Application.SetCenterPrintHeader("@TITLE@")
```

```
Application.SetRightPrintHeader("Page @PAGENUM@ of @PAGESCNT@")  
  
Application.SetRightPrintFooter("Page @PAGENUM@")  
Application.SetCenterPrintFooter("")  
Application.SetRightPrintFooter("Printed on @DATE@")
```

---

## SetMinDocWordCountForBatch

Sets the minimum number of words that a document must have to be included in batch projects.

### Syntax

```
SetMinDocWordCountForBatch(number count)
```

### Parameters

Parameter	Description
count	The minimum number of words that a document must have to be included in batch projects.

---

## SetParagraphsParsingMethod

Sets how hard returns help determine how paragraphs and sentences are detected.

### Syntax

```
SetParagraphsParsingMethod(ParagraphParse paragraphParse)
```

### Parameters

Parameter	Description
paragraphParse	<b>ParagraphParse</b> The paragraph parsing method.

---

## SetPhraseExclusionListFilePath

Sets the filepath to the list of phrases and words that should be excluded from analysis.

### Syntax

```
SetPhraseExclusionListFilePath(string filePath)
```

### Parameters

Parameter	Description
filePath	The filepath to the list of phrases and words that should be excluded from analysis.

## SetPlotBackgroundColor

Sets the plot area color for all graphs. The color is created by specifying the red, blue, and green channels of the color. (Values should be between **0** - **255**.)

### Syntax

```
SetPlotBackgroundColor(number red,  
                        number green,  
                        number blue)
```

### Parameters

Parameter	Description
red	The red channel of the color.
green	The green channel of the color.
blue	The blue channel of the color.

## SetPlotBackgroundOpacity

Sets the opacity of graph plot areas. **0** is fully transparent, and **255** is opaque.

### Syntax

```
SetPlotBackgroundOpacity(number opacityLevel)
```

### Parameters

Parameter	Description
opacityLevel	The opacity of graph plot areas.

## SetProjectLanguage

Changes the default language for new projects. This will affect syllable counting and also which tests are available.

### Syntax

```
SetProjectLanguage(Language lang)
```

### Parameters

Parameter	Description
lang	Which language to set as the default language for new projects.

## SetReviewer

Sets the user name for the software. This will appear in various output when exporting.

### Syntax

```
SetReviewer(string name)
```

### Parameters

Parameter	Description
name	The user name for the software.

## Example

```
Application.SetReviewer("AClark")
```

---

## SetRightPrintFooter

Sets the label to appear in the bottom right corner of printouts.

### Syntax

```
SetRightPrintFooter(string label)
```

### Parameters

Parameter	Description
label	The label to appear in the bottom right corner of printouts.

## Example

```
-- Set headers and footers for printouts.
Application.SetLeftPrintHeader("")
Application.SetCenterPrintHeader("@TITLE@")
Application.SetRightPrintHeader("Page @PAGENUM@ of @PAGESCNT@")

Application.SetRightPrintFooter("Page @PAGENUM@")
Application.SetCenterPrintFooter("")
Application.SetRightPrintFooter("Printed on @DATE@")
```

---

## SetRightPrintHeader

Sets the label to appear in the top right corner of printouts.

### Syntax

```
SetRightPrintHeader(string label)
```

### Parameters

Parameter	Description
label	The label to appear in the top right corner of printouts.



## Example

```
-- Set headers and footers for printouts.
Application.SetLeftPrintHeader("")
Application.SetCenterPrintHeader("@TITLE@")
Application.SetRightPrintHeader("Page @PAGENUM@ of @PAGESCNT@")

Application.SetRightPrintFooter("Page @PAGENUM@")
Application.SetCenterPrintFooter("")
Application.SetRightPrintFooter("Printed on @DATE@")
```

---

## SetSpellCheckerOptions

Sets which items the spell checker should ignore.

### Syntax

```
SetSpellCheckerOptions(boolean ignoreProperNouns,
                       boolean ignoreUppercased,
                       boolean ignoreNumerals,
                       boolean ignoreFileAddresses,
                       boolean ignoreProgrammerCode,
                       boolean ignoreSocialMediaTags
                       boolean ignoreColloquialisms)
```

### Parameters

Parameter	Description
ignoreProperNouns	true to ignore proper nouns.
ignoreUppercased	true to ignore uppercased words.
ignoreNumerals	true to ignore numerals.
ignoreFileAddresses	true to ignore filepaths and URLs.
ignoreProgrammerCode	true to ignore programmer code.
ignoreSocialMediaTags	true to ignore social media tags (e.g., <i>#goreadabilityformulas</i> ).
ignoreColloquialisms	true to ignore social colloquialisms (e.g., <i>rockin'</i> ).

---

## SetTextExclusion

Specifies how text should be excluded.

### Syntax

```
SetTextExclusion(TextExclusionType textExclusionType)
```

### Parameters

Parameter	Description
textExclusionType	How text should be excluded.

### Example

```
-- don't exclude any text for all future projects  
Application.SetTextExclusion(TextExclusionType.DoNotExcludeAnyText)
```

---

## SetWindowSize

Resizes the program's window size to the specified width and height.

### Syntax

```
SetWindowSize(number width,  
              number height)
```

### Parameters

Parameter	Description
width	The program window width.
height	The program window height.

---

## SplashScreen

Displays the image from the list of splashscreens at the specified index.

### Syntax

```
SplashScreen(number index)
```

### Parameters

Parameter	Description
index	Index of which image from the list of splashscreens to display.

## WriteToFile

Writes a string to the specified file path.

### Syntax

```
boolean WriteToFile(string filePath,  
                    string message)
```

### Parameters

Parameter	Description
filePath	The file to write to (will be overwritten if file exists).
message	The text to write to the file.

### Return value

Type: boolean

Returns **true** if output was successfully written to the file.



## Chapter 5

# Debug

Provides facilities for printing information to the editor's debug window.

### Clear

Clears the script editor's debug window.

### Syntax

```
Clear()
```

### Example

```
-- After running a script, clear any diagnostic info
-- in the editor's debug window.
Debug.Clear()
```

---

## GetScriptFolderPath

Returns the folder path of the currently running script.

### Syntax

```
string GetScriptFolderPath()
```

### Return value

Type: `string`

The folder path of the currently running script.

#### Warning

This will return an empty string if the current script has not been saved yet. A warning explaining this will also appear in the editor's debug window.

## Print

Prints a message to the script editor's debug window.

### Syntax

```
Print(string message)
```

### Parameters

Parameter	Description
message	The message to print.

#### 💡 Tip

*message* can be HTML-formatted text.

### Example

```
info = Application.GetImageInfo("C:\\images\\GraphLogo.png")

-- print information about an image
for i,v in pairs(info)
do
    Debug.Print("<b>"..i.."</b>: "..v)
end
```

## Part III

# Enumerations





## Chapter 6

# Enumerations

### BatchScoreResultType

The following highlighted batch project result windows are available.

Value	Description
AggregatedClozeScoresByDocument	The aggregated cloze scores (x document).
AggregatedGradeScoresByDocument	The aggregated grade-level scores (x document).
AggregatedScoreStatistics	The aggregated score statistics.
RawScores	The scores.

## BoxEffect

The following bar chart and box plot effects are available.

Value	Description
CommonImage	A subimage of a larger image shared by all boxes.
FadeFromBottomToTop	A color fade across the bars (starting from the bottom).
FadeFromTopToBottom	A color fade across the bars (starting from the top).
Glass	A “glassy” look.
Solid	A solid color.
StippleImage	Fill with a repeating image.
StippleShape	Fill with a repeating shape.
ThickWatercolor	Same as WaterColor, but applies a second coat of paint, making it appear thicker.
Watercolor	A watercolor-like effect, where the box is warped and looks like it was filled in with watercolor paint (or a marker).

## DolchResultType

The following Dolch result windows are available.

Value	Description
DolchBreakDownChart	Bar chart showing the totals of each <b>Dolch</b> category (standard projects only).
DolchCoverageBatchSummary	The <b>Dolch</b> coverage list (batch projects only).
DolchCoverageChart	Bar chart showing the coverage of each <b>Dolch</b> category (standard projects only).
DolchStatisticsSummary	The <b>Dolch</b> statistics summary report (standard projects only).
DolchWordsBatchSummary	The <b>Dolch</b> summary list (batch projects only).
DolchWordsList	The list of used <b>Dolch</b> words (standard projects only).
HighlightedDolchWordsReport	The highlighted <b>Dolch</b> word report (standard projects only).
HighlightedNonDolchWordsReport	The highlighted <b>non-Dolch</b> word report (standard projects only).
NonDolchWordsBatchSummary	The <b>non-Dolch</b> summary list (batch projects only).
NonDolchWordsList	The list of <b>non-Dolch</b> words (standard projects only).
UnusedDolchWordsList	The list of unused <b>Dolch</b> words (standard projects only).

## FilePathDisplayMode

The following values are available for controlling how filepaths in batch project lists are displayed.

Value	Description
NoTruncation	Show the full filepath.
OnlyShowFileNames	Only show the filename.
TruncatePaths	Show the filename after an abbreviated filepath.

## FontWeight

Weights that can be applied when setting a font.

Value	Description
Thin	Thin.
ExtraLight	Extra light.
Light	Light.
Normal	Normal.
Medium	Medium.
SemiBold	Semibold.
Bold	Bold.
ExtraBold	Extra bold.
Heavy	Heavy.
ExtraHeavy	Extra heavy.

## GraphType

The following graph types are available.

Value	Description
Crawford	<b>Crawford</b> readability graph.
DanielsonBryan2	<b>Danielson Bryan 2</b> readability graph (a variation of <b>Flesch Reading Ease</b> ).
DolchCoverageChart	Bar chart showing the coverage of each <b>Dolch</b> word category.
DolchWordBarChart	Bar chart showing the total of each <b>Dolch</b> word category.
Flesch	<b>Flesch Reading Ease</b> chart.
Frase	<b>FRASE</b> graph.
Fry	<b>Fry</b> readability graph.
GermanLix	German variation of Lix.
GpmFry	<b>Gilliam-Peña-Mountain</b> readability graph.
Lix	<b>Lix</b> Gauge
Raygor	<b>Raygor Estimate</b> graph.
Schwartz	<b>Schwartz</b> graph.
SentenceBoxPlox	Box plot showing the distribution of the document's sentence lengths (standard project only).
SentenceHeatmap	Heatmap showing the density of sentence lengths.
SentenceHistogram	Histogram showing the distribution of the document's sentence lengths (standard project only).
SyllableHistogram	Histogram showing the distribution of words by syllable size.
SyllablePieChart	Pie chart showing the distribution of words by syllable size.
WordBarChart	Bar chart showing the totals of various word categories (standard projects only).
WordCloud	Word cloud of key words.

## HighlightedReportType

The following highlighted report windows are available.

Value	Description
DaleChallUnfamiliarHighlightedWords	The highlighted <b>Dale-Chall</b> unfamiliar word report.
DolchHighlightedWords	The highlighted <b>Dolch</b> word report.
GrammarHighlightedIssues	The highlighted grammar issues word report.
HarrisJacobsonUnfamiliarHighlightedWords	The highlighted <b>Harris-Jacobson</b> unfamiliar word report.
NonDolchHighlightedWords	The highlighted <b>non-Dolch</b> word report.
SixPlusCharacterHighlightedWords	The highlighted 6
SpacheUnfamiliarHighlightedWords	The highlighted <b>Spache</b> unfamiliar word report.
ThreePlusSyllableHighlightedWords	The highlighted 3

## ImageFit

How to fit an image into of a rectangle.

Value	Description
CropAndCenter	Crop the image to the dimensions of the rect, with the center of the image as the crop origin.
Shrink	Shrink the image to the rect.



## Language

The following languages are available for projects.

<b>Value</b>	<b>Description</b>
English	English.
German	German.
Spanish	Spanish.

## ListType

The following types of lists are available.

Value	Description
AllWords	The list of all words from the document (standard projects only).
AllWordsCondensed	The list of all important words, combined by their roots.
ArticleMismatch	The list of article mismatched.
BatchAggregatedClozeScoresSummary	The Cloze-scores aggregated statistics report, listed by document (batch projects only).
BatchAggregatedGradeScoresSummary	The grade-scores aggregated statistics report, listed by document (batch projects only).
BatchDifficultWords	The difficult words summary list (batch projects only).
BatchDolchCoverage	The <b>Dolch</b> coverage list (batch projects only).
BatchDolchWords	The <b>Dolch</b> summary list (batch projects only).
BatchNonDolchWords	The <b>non-Dolch</b> summary list (batch projects only).
BatchRawScores	The list of readability scores from a batch project.
BatchScoresSummary	The readability-scores aggregated statistics report (batch projects only).
BatchWarning	The warnings list (batch projects only).
Cliches	The clichés list.
ConjunctionStartingSentences	The list of conjunction-starting sentences.
DaleChallUnfamiliarWords	The <b>Dale-Chall</b> unfamiliar word list (standard projects only).
DolchWords	The list of used <b>Dolch</b> words (standard projects only).
Goals	The list of goals that either passed or failed in the project.
HarrisJacobsonUnfamiliarWords	The <b>Harris-Jacobson</b> unfamiliar word list (standard projects only).
LongSentences	The overly-long sentences list.
LowercasedSentences	The lowercased sentences list.
MisspelledWords	The misspelled-words list.
NonDolchWords	The list of <b>non-Dolch</b> words (standard projects only).
OverusedWordsBySentence	The overly used words (x sentences) list.
PassiveVoice	The list of passive voice phrases.
RedundantPhrases	The redundant phrases list.
RepeatedWords	The repeated words list.
SixPlusCharacterWords	The 6
SpacheUnfamiliarWords	The <b>Spache</b> unfamiliar word list (standard projects only).
StatisticsTabularReport	The statistics summary report, in tabular format (standard projects only).
ThreePlusSyllableWords	The 3
UnusedDolchWords	The list of unused <b>Dolch</b> words (standard projects only).
Wordiness	The wordy items list.
WordingErrors	The list of wording errors.

## Orientation

The following types of orientation are available.

Value	Description
Horizontal	Left and right.
Vertical	Up and down.

## ParagraphParse

How paragraphs should be deduced.

Value	Description
EachNewLineIsAParagraph	Each hard return marks the start of a new paragraph.
OnlySentenceTerminatedNewLinesAreParagraphs	Hard returns only mark a new paragraph if they end with a terminated sentence.

## ProductType

The following releases of *Readability Studio* are available.

Value	Description
ProductMac32BitIntel	OSX 32-bit Intel (discontinued after 2015)
ProductMac32BitPowerPC	OSX 32-bit PowerPC (discontinued after 2013)
ProductMac64BitIntel	macOS 64-bit Intel
ProductWindows32Bit	Windows 32-bit

## ReportType

The following report types are available.

Value	Description
ReadabilityScoresSummaryReport	The readability-scores summary report.
ReadabilityScoresTabularReport	The statistics summary report (in tabular format).
StatisticsSummaryReport	The statistics summary report.

## SideBarSection

The following values are available for selection a section in a project.

Value	Description
BoxPlots	The box plots section (batch projects only).
Dolch	The <b>Dolch</b> section.
Grammar	The grammar section.
Histograms	The histograms section (batch projects only).
ReadabilityScores	The readability scores section.
SentencesBreakdown	The sentences breakdown section.
Statistics	The summary statistics section.
Warnings	The warnings section (batch projects only).
WordsBreakdown	The words breakdown section.

## SortOrder

The following sorting directions are available.

Value	Description
SortAscending	Sort lowest to highest (i.e., A-Z, 1-9).
SortDescending	Sort highest to lowest (i.e., Z-A, 9-1).



## StemmingType

The following stemmers are available.

Value	Description
Danish	Danish
Dutch	Dutch
English	English
Finnish	Finnish
French	French
German	German
Italian	Italian
NoStemming	Do not stem any words.
Norwegian	Norwegian
Portuguese	Portuguese
Spanish	Spanish
Swedish	Swedish

## Tests

The following tests are available.

Value	Description
Amstad	Amstad
Ari	Automated Readability Index
BormuthClozeMmean	Bormuth Cloze Mean
BormuthGradePlacement35	Bormuth Grade Placement
ColemanLiau	Coleman-Liau
Crawford	Crawford
DaleChall	New Dale-Chall
DanielsonBryan1	Danielson-Bryan 1
DanielsonBryan2	Danielson-Bryan 2
DegreesOfReadingPower	Degrees of Reading Power
DegreesOfReadingPowerGe	Degrees of Reading Power (GE)
Dolch	Dolch
Eflaw	Eflaw
Elf	Easy Listening Formula
FarrJenkinsPaterson	Farr, Jenkins, Paterson
Flesch	Flesch Reading Ease
FleschKincaid	Flesch-Kincaid
FleschKincaidSimplified	Flesch-Kincaid (simplified)
Forecast	FORCAST
Frase	FRASE
Fry	Fry Graph
GpmFry	Gilliam-Peña-Mountain Graph
GunningFog	Gunning Fog
HarrisJacobson	Harris-Jacobson
Lix	Lix
LixGermanChildrensLiterature	Lix (German children's literature)
LixGermanTechnical	Lix (German technical literature)
ModifiedSmog	Modified SMOG
NeueWienerSachtextformel1	Neue Wiener Sachtextformel (1)
NeueWienerSachtextformel2	Neue Wiener Sachtextformel (2)
NeueWienerSachtextformel3	Neue Wiener Sachtextformel (3)
NewAri	New Automated Readability Index
NewFarrJenkinsPaterson	New Farr, Jenkins, Paterson
NewFog	New Fog Count
PskDaleChall	Powers, Sumner, Kearl (Dale-Chall)
PskFarrJenkinsPaterson	Powers, Sumner, Kearl (Farr, Jenkins, Paterson)
PskFlesch	Powers, Sumner, Kearl (Flesch)
PskGunningFog	Powers, Sumner, Kearl (Gunning Fog)
Qu	Qu (Quadratwurzelverfahren)
Raygor	Raygor Estimate
Rix	RIX
RixGermanFiction	Rix (German fiction)
RixGermanNonfiction	Rix (German non-fiction)
Schwartz	Schwartz Graph (German)
SimpleAri	New Automated Readability Index (Kincaid, simplified)
Smog	SMOG
SmogBambergerVanecek	SMOG (Bamberger-Vanecek)

Value	Description
SmogSimplified	SMOG (Simplified)
SolSpanish	SOL (Spanish)
Spache	Spache
WheelerSmith	Wheeler-Smith
WheelerSmithBambergerVanecek	Wheeler-Smith (Bamberger-Vanecek)

## TestType

The following test types are available.

Value	Description
GradeLevel	A test yielding a grade level.
GradeLevelAndPredictedClozeScore	A test yielding a grade level and predicted cloze score.
IndexValue	A test yielding an index score.
IndexValueAndGradeLevel	A test yielding a grade level and index score.
PredictedClozeScore	A test yielding a predicted cloze score.

## TextExclusionType

The following text exclusion methods are available.

Value	Description
DoNotExcludeAnyText	No text should be excluded from analysis.
ExcludeIncompleteSentences	All incomplete sentences should be excluded from the analysis.
ExcludeIncompleteSentencesExceptForHeadings	All incomplete sentences (except headers and footers) should be excluded from the analysis.

## TextStorage

The following document connection methods are available.

Value	Description
EmbedText	Embeds the document's text into the project.
NoEmbedText	Links the project to the external document.

# Index

## D

Debugger  
clearing, 75  
printing message to, 76

## G

Graphs  
exporting, 31

## H

Highlighted reports  
exporting, 32

## L

Lists  
exporting, 33  
sorting, 40

## P

Printing  
headers & footers, 61, 62, 66, 70

## R

Reports  
exporting, 34

## U

User interface  
project sidebar, 19, 39  
window size, 72

## W

Warnings  
disabling, 45  
enabling, 46

