

Google

Google Apps Script

Search

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Google Apps Script allows you to programmatically create and modify *Google Docs*, as well as customize the user interface with new menus, dialog boxes, and sidebars.

The basics

1. Structure of a document
2. Replacing text
3. Custom menus and user interfaces
4. Add-ons for Google Docs
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6. The basics

Apps Script can interact with **Google Docs** in two broad ways: any script can create or modify a document if the script's user has appropriate permissions for the document, and a script can also be bound to a document, which gives the script special abilities to alter the user interface or respond when the document is opened. To create a container-bound script, select Tools > Script editor from within *Google Docs*.

In either case, it's simple to interact with a *Google Doc* through Apps Script's Document Service, as the following example demonstrates.

```
function createDoc() {  
  var doc = DocumentApp.create('Sample Document');  
  var body = doc.getBody();  
  var rowsData = [['Plants', 'Animals'], ['Ficus', 'Goat'], ['Basil', 'Cat'],  
  ['Moss', 'Frog']];  
  body.insertParagraph(0, doc.getName())  
    .setHeading(DocumentApp.ParagraphHeading.HEADING1);  
  table = body.appendTable(rowsData);  
  table.getRow(0).editAsText().setBold(true);  
}
```

The script above creates a new document in the user's *Google Drive*, then inserts a paragraph that contains the same text as the document's name, styles that paragraph as a heading, and appends a table based on the values in a two-dimensional array. The script could just as easily make these changes to an existing document by replacing the call to `DocumentApp.create()` with `DocumentApp.openById()` or `openByUrl()`. For scripts created inside a document (container-bound), use `DocumentApp.getActiveDocument()`.

Structure of a document

From Apps Script's perspective, a Google Doc is structured much like an HTML document—that is, a *Google Doc* is composed of elements (like a Paragraph or Table) that often contain other elements. Most scripts that modify a Google Doc begin with a call to `getBody()`, because the Body is a master element that contains all other elements except for the `HeaderSection`, `FooterSection`, and any Footnotes.

However, there are rules about which types of elements can contain other types. Furthermore, the Document Service in Apps Script can only insert certain types of elements. The expandable tree below shows which elements can be contained by a certain type of elements. Click the triangle next to a class name to see its possible child elements.

Elements shown in bold can be inserted; non-bold elements can only be manipulated in place.

Document

- ▶Body
- ▶HeaderSection
- ▶FooterSection
- ▶FootnoteSection
- Replacing text

Apps Script is often used to replace text in *Google Docs*. Let's say you have a spreadsheet full of client information and you want to generate a personalized Google Doc for each client. (This type of operation is often called a mail merge.)

There are many ways to replace text, but the simplest is the `replaceText()` method shown in the example below. `replaceText` supports most of JavaScript's regular expression features. The first function below adds several lines of placeholder text to a Google Doc; in the real world, you would be more likely to type the placeholders into the document yourself. The second function replaces the placeholders with properties defined in the client object.

Note that both of these functions use the `getActiveDocument()` method, which only applies to scripts created inside a Google Doc; in a stand-alone script, use `DocumentApp.create()`, `openById()`, or `openByUrl()` instead.

Add some sample placeholders

Replace the sample placeholders

```
function createPlaceholders() {  
  var body = DocumentApp.getActiveDocument().getBody();  
  body.appendParagraph('{name}');
```

```

    body.appendParagraph('{address}');
    body.appendParagraph('{city} {state} {zip}');
}
function searchAndReplace() {
    var body = DocumentApp.getActiveDocument()
        .getBody();
    var client = {
        name: 'Joe Script-Guru',
        address: '100 Script Rd',
        city: 'Scriptville',
        state: 'GA',
        zip: 94043
    };

    body.replaceText('{name}', client.name);
    body.replaceText('{address}', client.address);
    body.replaceText('{city}', client.city);
    body.replaceText('{state}', client.state);
    body.replaceText('{zip}', client.zip);
}

```

Custom menus and user interfaces

You can customize Google Docs by adding menus, dialog boxes, and sidebars. Keep in mind, however, that a script can only interact with the UI for the current instance of an open document, and only if the script is bound to the document.

See how to add custom menus and dialogs to your Google Docs. To learn more about creating custom interfaces for a dialog or sidebar, see the guide to [HTML Service](#) or [UI Service](#). If you're planning to publish your custom interface as part of an add-on, follow the style guide for consistency with the style and layout of the Google Docs editor.

Add-ons for Google Docs

Add-ons run inside Google Docs and can be installed from the Google Docs add-on store. If you've developed a script for Google Docs and want to share it with the world, Apps Script lets you publish your script as an add-on so other users can install it from the add-on store.

To see how you can create an add-on for Google Docs, see [quickstart for building Docs add-ons](#).

Triggers

Scripts that are bound to a Google Doc can use a simple trigger to respond to the document's onOpen event, which occurs whenever a user who has edit access to the document opens it in Google Docs.

To set up the trigger, just write a function called onOpen(). The menu code above shows an example of this trigger. Although the simple trigger is useful for adding menus, it cannot use any Apps Script services that require authorization.

Extending Google Apps:

| [Google Sheets](#) | [Custom Functions in Google Sheets](#) | [Known Issues in New Google Sheets](#)

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meration of the supported fonts.

FooterSection An element representing a footer section.

Footnote An element representing a footnote.

FootnoteSection An element representing a footnote section.

GlyphType An enumeration of the supported glyph types.

HeaderSection An element representing a header section.

HorizontalAlignment An enumeration of the supported horizontal alignment types.

HorizontalRule An element representing an horizontal rule.

InlineDrawing An element representing an embedded drawing.

InlinelImage An element representing an embedded image.

ListItem An element representing a list item.

NamedRange A Range that has a name and ID to allow later retrieval.

PageBreak An element representing a page break.

Paragraph An element representing a paragraph.

ParagraphHeading An enumeration of the standard paragraph headings.

Position A reference to a location in the document, relative to a specific element.

Range A range of elements in a document.

RangeBuilder A builder used to construct RangeBuilder objects from document elements.

RangeElement A wrapper around an Element with a possible start and end offset.

Table An element representing a table.

TableCell An element representing a table cell.

TableOfContents An element containing a table of contents.

TableRow An element representing a table row.

Text An element representing a rich text region.

TextAlignment An enumeration of the type of text alignments.

UnsupportedElement An element representing a region that is unknown or cannot be affected by a script, such as a page number.

VerticalAlignment An enumeration of the supported vertical alignment types.

Class Attribute

Properties

Property	Type	Description
----------	------	-------------

BACKGROUND_COLOR	Enum	The background color of an element (Paragraph, Table, etc) or document.
------------------	------	---

BOLD	Enum	The font weight setting, for rich text.
------	------	---

BORDER_COLOR	Enum	The border color, for table elements.
--------------	------	---------------------------------------

BORDER_WIDTH	Enum	The border width in points, for table elements.
--------------	------	---

CODE	Enum	The code contents, for equation elements.
------	------	---

FONT_FAMILY	Enum	The font family setting, for rich text.
-------------	------	---

FONT_SIZE	Enum	The font size setting in points, for rich text.
-----------	------	---

FOREGROUND_COLOR	Enum	The foreground color setting, for rich text.
------------------	------	--

HEADING	Enum	The heading type, for paragraph elements (for example, DocumentApp.ParagraphHeading.HEADING1).
---------	------	--

HEIGHT	Enum	The height setting, for image elements.
--------	------	---

HORIZONTAL_ALIGNMENT	Enum	The horizontal alignment, for paragraph elements (for example, DocumentApp.HorizontalAlignment.CENTER).
----------------------	------	---

INDENT_END	Enum	The end indentation setting in points, for paragraph elements.
------------	------	--

INDENT_FIRST_LINE	Enum	The first line indentation setting in points, for paragraph elements.
-------------------	------	---

INDENT_START	Enum	The start indentation setting in points, for paragraph elements.
--------------	------	--

ITALIC	Enum	The font style setting, for rich text.
--------	------	--

GLYPH_TYPE	Enum	The glyph type, for list item elements.
------------	------	---

LEFT_TO_RIGHT	Enum	The text direction setting, for rich text.
---------------	------	--

LINE_SPACING	Enum	The line spacing setting as a multiplier, for paragraph elements.
--------------	------	---

LINK_URL	Enum	The link URL, for rich text.
----------	------	------------------------------

LIST_ID	Enum	The ID of the encompassing list, for list item elements.
---------	------	--

MARGIN_BOTTOM	Enum	The bottom margin setting in points, for paragraph elements.
---------------	------	--

MARGIN_LEFT	Enum	The left margin setting in points, for paragraph elements.
-------------	------	--

MARGIN_RIGHT	Enum	The right margin setting in points, for paragraph elements.
--------------	------	---

MARGIN_TOP	Enum	The top margin setting in points, for paragraph elements.
------------	------	---

NESTING_LEVEL	Enum	The item nesting level, for list item elements.
---------------	------	---

MINIMUM_HEIGHT	Enum	The minimum height setting in points, for table row elements.
----------------	------	---

PADDING_BOTTOM	Enum	The bottom padding setting in points, for table cell elements.
----------------	------	--

PADDING_LEFT	Enum	The left padding setting in points, for table cell elements.
--------------	------	--

PADDING_RIGHT	Enum	The right padding setting in points, for table cell elements.
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PADDING_TOP	Enum	The top padding setting in points, for table cell elements.
-------------	------	---

PAGE_HEIGHT	Enum	The page height setting in points, for documents.
-------------	------	---

PAGE_WIDTH Enum The page width setting in points, for documents.
 SPACING_AFTER Enum The bottom spacing setting in points, for paragraph elements.
 SPACING_BEFORE Enum The top spacing setting in points, for paragraph elements.
 STRIKETHROUGH Enum The strike-through setting, for rich text.
 UNDERLINE Enum The underline setting, for rich text.
 VERTICAL_ALIGNMENT Enum The vertical alignment setting, for table cell elements.
 WIDTH Enum The width setting, for table cell and image elements.

Class Body

Methods

Method	Return type	Brief description
appendHorizontalRule()	HorizontalRule	Creates and appends a new HorizontalRule.
appendImage(image)	InlinelImage	Creates and appends a new InlinelImage from the specified image blob.
appendImage(image)	InlinelImage	Appends the given InlinelImage.
appendListItem(listItem)	ListItem	Appends the given ListItem.
appendListItem(text)	ListItem	Creates and appends a new ListItem containing the specified text contents.
appendPageBreak()	PageBreak	Creates and appends a new PageBreak.
appendPageBreak(pageBreak)	PageBreak	Appends the given PageBreak.
appendParagraph(paragraph)	Paragraph	Appends the given Paragraph.
appendParagraph(text)	Paragraph	Creates and appends a new Paragraph containing the specified text contents.
appendTable()	Table	Creates and appends a new Table.
appendTable(cells)	Table	Appends a new Table containing a TableCell for each specified string value.
appendTable(table)	Table	Appends the given Table.
clear()	Body	Clears the contents of the element.
copy()	Body	Returns a detached, deep copy of the current element.
editAsText()	Text	Obtains a Text version of the current element, for editing.
findElement(elementType)	RangeElement	Searches the contents of the element for a descendant of the specified type.
findElement(elementType, from)	RangeElement	Searches the contents of the element for a descendant of the specified type, starting from the specified RangeElement.
findText(searchPattern)	RangeElement	Searches the contents of the element for the specified text pattern using regular expressions.
findText(searchPattern, from)	RangeElement	Searches the contents of the element for the specified text pattern, starting from a given search result.
getAttributes()	Object	Retrieves the element's attributes.
getChild(childIndex)	Element	Retrieves the child element at the specified child index.
getChildIndex(child)	Integer	Retrieves the child index for the specified child element.
getImages()	InlinelImage[]	Retrieves all the InlinelImages contained in the section.
getListItems()	ListItem[]	Retrieves all the ListItems contained in the section.

getMarginBottom()	Number	Retrieves the bottom margin, in points.
getMarginLeft()	Number	Retrieves the left margin, in points.
getMarginRight()	Number	Retrieves the right margin.
getMarginTop()	Number	Retrieves the top margin.
getNumChildren()	Integer	Retrieves the number of children.
getPageHeight()	Number	Retrieves the page height, in points.
getPageWidth()	Number	Retrieves the page width, in points.
getParagraphs()	Paragraph[]	Retrieves all the Paragraphs contained in the section.
getParent()	ContainerElement	Retrieves the element's parent element.
getTables()	Table[]	Retrieves all the Tables contained in the section.
getText()	String	Retrieves the contents of the element as a text string.
getTextAlignment()	TextAlignment	Gets the text alignment.
getType()	ElementType	Retrieves the element's ElementType.
insertHorizontalRule(childIndex)	HorizontalRule	Creates and inserts a new HorizontalRule at the specified index.
insertImage(childIndex, image)	InlinelImage	Creates and inserts an InlinelImage from the specified image blob, at the specified index.
insertImage(childIndex, image)	InlinelImage	Inserts the given InlinelImage at the specified index.
insertListItem(childIndex, listItem)	ListItem	Inserts the given ListItem at the specified index.
insertListItem(childIndex, text)	ListItem	Creates and inserts a new ListItem at the specified index, containing the specified text contents.
insertPageBreak(childIndex)	PageBreak	Creates and inserts a new PageBreak at the specified index.
insertPageBreak(childIndex, pageBreak)	PageBreak	Inserts the given PageBreak at the specified index.
insertParagraph(childIndex, paragraph)	Paragraph	Inserts the given Paragraph at the specified index.
insertParagraph(childIndex, text)	Paragraph	Creates and inserts a new Paragraph at the specified index, containing the specified text contents.
insertTable(childIndex)	Table	Creates and inserts a new Table at the specified index.
insertTable(childIndex, cells)	Table	Creates and inserts a new Table containing the specified cells, at the specified index.
insertTable(childIndex, table)	Table	Inserts the given Table at the specified index.
removeChild(child)	Body	Removes the specified child element.
replaceText(searchPattern, replacement)	Element	Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.
setAttributes(attributes)	Body	Sets the element's attributes.
setMarginBottom(marginBottom)	Body	Sets the bottom margin, in points.
setMarginLeft(marginLeft)	Body	Sets the left margin, in points.
setMarginRight(marginRight)	Body	Sets the right margin, in points.
setMarginTop(marginTop)	Body	Sets the top margin.

setPageHeight(pageHeight) Body Sets the page height, in points.
 setPageWidth(pageWidth) Body Sets the page width, in points.
 setText(text) Body Sets the contents as plain text.
 setTextAlignment(textAlignment) Body Sets the text alignment.
 Class Bookmark

Methods

Method	Return type	Brief description
getId()	String	Gets the ID of the Bookmark.
getPosition()	Position	Gets the Position of the Bookmark within the Document.
remove()	void	Deletes the Bookmark.

Class ContainerElement

Methods

Method	Return type	Brief description
asBody()	Body	Returns the current element as a Body.
asEquation()	Equation	Returns the current element as a Equation.
asFooterSection()	FooterSection	Returns the current element as a FooterSection.
asFootnoteSection()	FootnoteSection	Returns the current element as a FootnoteSection.
asHeaderSection()	HeaderSection	Returns the current element as a HeaderSection.
asListItem()	ListItem	Returns the current element as a ListItem.
asParagraph()	Paragraph	Returns the current element as a Paragraph.
asTable()	Table	Returns the current element as a Table.
asTableCell()	TableCell	Returns the current element as a TableCell.
asTableOfContents()	TableOfContents	Returns the current element as a TableOfContents.
asTableRow()	TableRow	Returns the current element as a TableRow.
clear()	ContainerElement	Clears the contents of the element.
copy()	ContainerElement	Returns a detached, deep copy of the current element.
editAsText()	Text	Obtains a Text version of the current element, for editing.
findElement(elementType)	RangeElement	Searches the contents of the element for a descendant of the specified type.
findElement(elementType, from)	RangeElement	Searches the contents of the element for a descendant of the specified type, starting from the specified RangeElement.
findText(searchPattern)	RangeElement	Searches the contents of the element for the specified text pattern using regular expressions.
findText(searchPattern, from)	RangeElement	Searches the contents of the element for the specified text pattern, starting from a given search result.
getAttributes()	Object	Retrieves the element's attributes.
getChild(childIndex)	Element	Retrieves the child element at the specified child index.
getChildIndex(child)	Integer	Retrieves the child index for the specified child element.
getLinkUrl()	String	Retrieves the link url.
getNextSibling()	Element	Retrieves the element's next sibling element.
getNumChildren()	Integer	Retrieves the number of children.

getParent()	ContainerElement	Retrieves the element's parent element.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getText()	String	Retrieves the contents of the element as a text string.
getTextAlignment()	TextAlignment	Gets the text alignment.
getType()	ElementType	Retrieves the element's ElementType.
isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
merge()	ContainerElement	Merges the element with the preceding sibling of the same type.
removeFromParent()	ContainerElement	Removes the element from its parent.
replaceText(searchPattern, replacement)	Element	Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.
setAttributes(attributes)	ContainerElement	Sets the element's attributes.
setLinkUrl(url)	ContainerElement	Sets the link url.
setTextAlignment(textAlignment)	ContainerElement	Sets the text alignment.

Class Document

Methods

Method	Return type	Brief description
addBookmark(position)	Bookmark	Adds a Bookmark at the given Position.
addEditor(emailAddress)	Document	Adds the given user to the list of editors for the Document.
addEditor(user)	Document	Adds the given user to the list of editors for the Document.
addEditors(emailAddresses)	Document	Adds the given array of users to the list of editors for the Document.
addFooter()	FooterSection	Adds a document footer section, if none exists.
addHeader()	HeaderSection	Adds a document header section, if none exists.
addNamedRange(name, range)	NamedRange	Adds a new NamedRange, which is a Range that has a name and ID to allow later retrieval.
addViewer(emailAddress)	Document	Adds the given user to the list of viewers for the Document.
addViewer(user)	Document	Adds the given user to the list of viewers for the Document.
addViewers(emailAddresses)	Document	Adds the given array of users to the list of viewers for the Document.
getAs(contentType)	Blob	Retrieves the current Document contents as a blob of the specified type.
getBlob()	Blob	Retrieves the current Document contents as a blob.
getBody()	Body	Retrieves the active document's Body.
getBookmark(id)	Bookmark	Gets the Bookmark with the given ID.
getBookmarks()	Bookmark[]	Gets all Bookmark objects in the document.
getCursor()	Position	Gets the user's cursor in the active document.
getEditors()	User[]	Gets the list of editors for this Document.
getFooter()	FooterSection	Retrieves the document's footer section, if one exists.

`getFootnotes()` `Footnote[]` Retrieves all the Footnote elements in the document body.
`getHeader()` `HeaderSection` Retrieves the document's header section, if one exists.
`getId()` `String` Retrieves the document's unique identifier.
`getName()` `String` Retrieves the title of the document.
`getNamedRangeById(id)` `NamedRange` Gets the `NamedRange` with the given ID.
`getNamedRanges()` `NamedRange[]` Gets all `NamedRange` objects in the document.
`getNamedRanges(name)` `NamedRange[]` Gets all `NamedRange` objects in the document with the given name.
`getSelection()` `Range` Gets the user's selection in the active document.
`getUri()` `String` Retrieves the URL to access the current document.
`getViewers()` `User[]` Gets the list of viewers and commenters for this Document.
`newPosition(element, offset)` `Position` Creates a new `Position`, which is a reference to a location in the document, relative to a specific element.
`newRange()` `RangeBuilder` Creates a builder used to construct `Range` objects from document elements.
`removeEditor(emailAddress)` `Document` Removes the given user from the list of editors for the Document.
`removeEditor(user)` `Document` Removes the given user from the list of editors for the Document.
`removeViewer(emailAddress)` `Document` Removes the given user from the list of viewers and commenters for the Document.
`removeViewer(user)` `Document` Removes the given user from the list of viewers and commenters for the Document.
`saveAndClose()` `void` Saves the current Document.
`setCursor(position)` `Document` Sets the user's cursor in the active document, given a `Position`.
`setName(name)` `Document` Sets the document title.
`setSelection(range)` `Document` Sets the user's selection in the active document, given a `Range`.
 Class `DocumentApp`

Properties

Property	Type	Description
<code>Attribute</code>	<code>Attribute</code>	The <code>Attribute</code> enumeration.
<code>ElementType</code>	<code>ElementType</code>	The <code>ElementType</code> enumeration.
<code>FontFamily</code>	<code>FontFamily</code>	The <code>FontFamily</code> enumeration.
<code>GlyphType</code>	<code>GlyphType</code>	The <code>GlyphType</code> enumeration.
<code>HorizontalAlignment</code>	<code>HorizontalAlignment</code>	The <code>HorizontalAlignment</code> enumeration.
<code>ParagraphHeading</code>	<code>ParagraphHeading</code>	The <code>ParagraphHeading</code> enumeration.
<code>TextAlignment</code>	<code>TextAlignment</code>	The <code>TextAlignment</code> enumeration.
<code>VerticalAlignment</code>	<code>VerticalAlignment</code>	The <code>VerticalAlignment</code> enumeration.

Methods

Method	Return type	Brief description
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create(name) Document Creates and returns a new document.

getActiveDocument() Document Returns the document to which the script is container-bound.

getUi() Ui Returns an instance of the document's user-interface environment that allows the script to add features like menus, dialogs, and sidebars.

openById(id) Document Returns the document with the specified ID.

openByUrl(url) Document Opens and returns the document with the specified URL.

Class Element

Methods

Method	Return type	Brief description
asBody()	Body	Returns the current element as a Body.
asEquation()	Equation	Returns the current element as a Equation.
asEquationFunction()	EquationFunction	Returns the current element as a EquationFunction.
asEquationFunctionArgumentSeparator()	EquationFunctionArgumentSeparator	Returns the current element as a EquationFunctionArgumentSeparator.
asEquationSymbol()	EquationSymbol	Returns the current element as a EquationSymbol.
asFooterSection()	FooterSection	Returns the current element as a FooterSection.
asFootnote()	Footnote	Returns the current element as a Footnote.
asFootnoteSection()	FootnoteSection	Returns the current element as a FootnoteSection.
asHeaderSection()	HeaderSection	Returns the current element as a HeaderSection.
asHorizontalRule()	HorizontalRule	Returns the current element as a HorizontalRule.
asInlineDrawing()	InlineDrawing	Returns the current element as a InlineDrawing.
asInlinelImage()	InlinelImage	Returns the current element as a InlinelImage.
asListItem()	ListItem	Returns the current element as a ListItem.
asPageBreak()	PageBreak	Returns the current element as a PageBreak.
asParagraph()	Paragraph	Returns the current element as a Paragraph.
asTable()	Table	Returns the current element as a Table.
asTableCell()	TableCell	Returns the current element as a TableCell.
asTableOfContents()	TableOfContents	Returns the current element as a TableOfContents.
asTableRow()	TableRow	Returns the current element as a TableRow.
asText()	Text	Returns the current element as a Text.
copy()	Element	Returns a detached, deep copy of the current element.
getAttributes()	Object	Retrieves the element's attributes.
getNextSibling()	Element	Retrieves the element's next sibling element.
getParent()	ContainerElement	Retrieves the element's parent element.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getType()	ElementType	Retrieves the element's ElementType.
isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
merge()	Element	Merges the element with the preceding sibling of the same type.
removeFromParent()	Element	Removes the element from its parent.
setAttributes(attributes)	Element	Sets the element's attributes.

Class ElementType

Properties

Property	Type	Description
BODY_SECTION	Enum	The type corresponding to the Body element.
COMMENT_SECTION	Enum	The type corresponding to the CommentSection element.
DOCUMENT	Enum	The type that corresponds to the root of the document.
EQUATION	Enum	The type corresponding to the Equation element.
EQUATION_FUNCTION	Enum	The type corresponding to the EquationFunction element.
EQUATION_FUNCTION_ARGUMENT_SEPARATOR	Enum	The type corresponding to the EquationFunctionArgumentSeparator element.
EQUATION_SYMBOL	Enum	The type corresponding to the EquationSymbol element.
FOOTER_SECTION	Enum	The type corresponding to the FooterSection element.
FOOTNOTE	Enum	The type corresponding to the Footnote element.
FOOTNOTE_SECTION	Enum	The type corresponding to the FootnoteSection element.
HEADER_SECTION	Enum	The type corresponding to the HeaderSection element.
HORIZONTAL_RULE	Enum	The type corresponding to the HorizontalRule element.
INLINE_DRAWING	Enum	The type corresponding to the InlineDrawing element.
INLINE_IMAGE	Enum	The type corresponding to the InlineImage element.
LIST_ITEM	Enum	The type corresponding to the ListItem element.
PAGE_BREAK	Enum	The type corresponding to the PageBreak element.
PARAGRAPH	Enum	The type corresponding to the Paragraph element.
TABLE	Enum	The type corresponding to the Table element.
TABLE_CELL	Enum	The type corresponding to the TableCell element.
TABLE_OF_CONTENTS	Enum	The type corresponding to the TableOfContents element.
TABLE_ROW	Enum	The type corresponding to the TableRow element.
TEXT	Enum	The type corresponding to the Text element.
UNSUPPORTED	Enum	The type corresponding to UnsupportedElement.

Class Equation

Methods

Method	Return type	Brief description
clear()	Equation	Clears the contents of the element.
copy()	Equation	Returns a detached, deep copy of the current element.
editAsText()	Text	Obtains a Text version of the current element, for editing.
findElement(elementType)	RangeElement	Searches the contents of the element for a descendant of the specified type.
findElement(elementType, from)	RangeElement	Searches the contents of the element for a descendant of the specified type, starting from the specified RangeElement.
findText(searchPattern)	RangeElement	Searches the contents of the element for the specified text pattern using regular expressions.
findText(searchPattern, from)	RangeElement	Searches the contents of the element for the specified text pattern, starting from a given search result.

getAttributes()	Object	Retrieves the element's attributes.
getChild(childIndex)	Element	Retrieves the child element at the specified child index.
getChildIndex(child)	Integer	Retrieves the child index for the specified child element.
getLinkUrl()	String	Retrieves the link url.
getNextSibling()	Element	Retrieves the element's next sibling element.
getNumChildren()	Integer	Retrieves the number of children.
getParent()	ContainerElement	Retrieves the element's parent element.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getText()	String	Retrieves the contents of the element as a text string.
getTextAlignment()	TextAlignment	Gets the text alignment.
getType()	ElementType	Retrieves the element's ElementType.
isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
merge()	Equation	Merges the element with the preceding sibling of the same type.
removeFromParent()	Equation	Removes the element from its parent.
replaceText(searchPattern, replacement)	Element	Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.
setAttributes(attributes)	Equation	Sets the element's attributes.
setLinkUrl(url)	Equation	Sets the link url.
setTextAlignment(textAlignment)	Equation	Sets the text alignment.

Class EquationFunction

Methods

Method	Return type	Brief description
clear()	EquationFunction	Clears the contents of the element.
copy()	EquationFunction	Returns a detached, deep copy of the current element.
editAsText()	Text	Obtains a Text version of the current element, for editing.
findElement(elementType)	RangeElement	Searches the contents of the element for a descendant of the specified type.
findElement(elementType, from)	RangeElement	Searches the contents of the element for a descendant of the specified type, starting from the specified RangeElement.
findText(searchPattern)	RangeElement	Searches the contents of the element for the specified text pattern using regular expressions.
findText(searchPattern, from)	RangeElement	Searches the contents of the element for the specified text pattern, starting from a given search result.
getAttributes()	Object	Retrieves the element's attributes.
getChild(childIndex)	Element	Retrieves the child element at the specified child index.
getChildIndex(child)	Integer	Retrieves the child index for the specified child element.
getCode()	String	Retrieves the code corresponding to the equation function.
getLinkUrl()	String	Retrieves the link url.
getNextSibling()	Element	Retrieves the element's next sibling element.
getNumChildren()	Integer	Retrieves the number of children.
getParent()	ContainerElement	Retrieves the element's parent element.

getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getText()	String	Retrieves the contents of the element as a text string.
getTextAlignment()	TextAlignment	Gets the text alignment.
getType()	ElementType	Retrieves the element's ElementType.
isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
merge()	EquationFunction	Merges the element with the preceding sibling of the same type.
removeFromParent()	EquationFunction	Removes the element from its parent.
replaceText(searchPattern, replacement)	Element	Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.
setAttributes(attributes)	EquationFunction	Sets the element's attributes.
setLinkUrl(url)	EquationFunction	Sets the link url.
setTextAlignment(textAlignment)	EquationFunction	Sets the text alignment.

Class EquationFunctionArgumentSeparator

Methods

Method	Return type	Brief description
copy()	EquationFunctionArgumentSeparator	Returns a detached, deep copy of the current element.
getAttributes()	Object	Retrieves the element's attributes.
getNextSibling()	Element	Retrieves the element's next sibling element.
getParent()	ContainerElement	Retrieves the element's parent element.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getType()	ElementType	Retrieves the element's ElementType.
isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
merge()	EquationFunctionArgumentSeparator	Merges the element with the preceding sibling of the same type.
removeFromParent()	EquationFunctionArgumentSeparator	Removes the element from its parent.
setAttributes(attributes)	EquationFunctionArgumentSeparator	Sets the element's attributes.

Class EquationSymbol

Methods

Method	Return type	Brief description
copy()	EquationSymbol	Returns a detached, deep copy of the current element.
getAttributes()	Object	Retrieves the element's attributes.
getCode()	String	Retrieves the code corresponding to the equation symbol.
getNextSibling()	Element	Retrieves the element's next sibling element.
getParent()	ContainerElement	Retrieves the element's parent element.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.

getType()	ElementType	Retrieves the element's ElementType.
isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
merge()	EquationSymbol	Merges the element with the preceding sibling of the same type.
removeFromParent()	EquationSymbol	Removes the element from its parent.
setAttributes(attributes)	EquationSymbol	Sets the element's attributes.

Class FontFamily

Properties

Property	Type	Description
AMARANTH	Enum	The Amaranth font family.
ARIAL	Enum	The Arial font family.
ARIAL_BLACK	Enum	The Arial Black font family.
ARIAL_NARROW	Enum	The Arial Narrow font family.
ARVO	Enum	The Arvo font family.
CALIBRI	Enum	The Calibri font family.
CAMBRIA	Enum	The Cambria font family.
COMIC_SANS_MS	Enum	The Comic Sans MS font family.
CONSOLAS	Enum	The Consolas font family.
CORSIVA	Enum	The Corsiva font family.
COURIER_NEW	Enum	The Courier New font family.
DANCING_SCRIPT	Enum	The Dancing Script font family.
DROID_SANS	Enum	The Droid Sans font family.
DROID_SERIF	Enum	The Droid Serif font family.
GARAMOND	Enum	The Garamond font family.
GEORGIA	Enum	The Georgia font family.
LOBSTER	Enum	The Lobster font family.
MERRIWEATHER	Enum	The Merriweather font family.
PHILOSOPHER	Enum	The Philosopher font family.
QUATTROCENTO	Enum	The Quattrocento font family.
SYNCOPE	Enum	The Syncopate font family.
TAHOMA	Enum	The Tahoma font family.
TIMES_NEW_ROMAN	Enum	The Times New Roman font family.
TREBUCHET_MS	Enum	The Trebuchet MS font family.
UBUNTU	Enum	The Ubuntu font family.
VERDANA	Enum	The Verdana font family.

Class FooterSection

Methods

Method	Return type	Brief description
appendHorizontalRule()	HorizontalRule	Creates and appends a new HorizontalRule.

`appendImage(image)` `InlinelImage` Creates and appends a new `InlinelImage` from the specified image blob.

`appendImage(image)` `InlinelImage` Appends the given `InlinelImage`.

`appendListItem(listItem)` `ListlItem` Appends the given `ListlItem`.

`appendListItem(text)` `ListlItem` Creates and appends a new `ListlItem` containing the specified text contents.

`appendParagraph(paragraph)` `Paragraph` Appends the given `Paragraph`.

`appendParagraph(text)` `Paragraph` Creates and appends a new `Paragraph` containing the specified text contents.

`appendTable()` `Table` Creates and appends a new `Table`.

`appendTable(cells)` `Table` Appends a new `Table` containing a `TableCell` for each specified string value.

`appendTable(table)` `Table` Appends the given `Table`.

`clear()` `FooterSection` Clears the contents of the element.

`copy()` `FooterSection` Returns a detached, deep copy of the current element.

`editAsText()` `Text` Obtains a `Text` version of the current element, for editing.

`findElement(elementType)` `RangeElement` Searches the contents of the element for a descendant of the specified type.

`findElement(elementType, from)` `RangeElement` Searches the contents of the element for a descendant of the specified type, starting from the specified `RangeElement`.

`findText(searchPattern)` `RangeElement` Searches the contents of the element for the specified text pattern using regular expressions.

`findText(searchPattern, from)` `RangeElement` Searches the contents of the element for the specified text pattern, starting from a given search result.

`getAttributes()` `Object` Retrieves the element's attributes.

`getChild(childIndex)` `Element` Retrieves the child element at the specified child index.

`getChildIndex(child)` `Integer` Retrieves the child index for the specified child element.

`getImages()` `InlinelImage[]` Retrieves all the `InlinelImages` contained in the section.

`getListItems()` `ListlItem[]` Retrieves all the `ListlItems` contained in the section.

`getNumChildren()` `Integer` Retrieves the number of children.

`getParagraphs()` `Paragraph[]` Retrieves all the `Paragraphs` contained in the section.

`getParent()` `ContainerElement` Retrieves the element's parent element.

`getTables()` `Table[]` Retrieves all the `Tables` contained in the section.

`getText()` `String` Retrieves the contents of the element as a text string.

`getTextAlignment()` `TextAlignment` Gets the text alignment.

`getType()` `ElementType` Retrieves the element's `ElementType`.

`insertHorizontalRule(childIndex)` `HorizontalRule` Creates and inserts a new `HorizontalRule` at the specified index.

`insertImage(childIndex, image)` `InlinelImage` Creates and inserts an `InlinelImage` from the specified image blob, at the specified index.

`insertImage(childIndex, image)` `InlinelImage` Inserts the given `InlinelImage` at the specified index.

<code>insertListItem(childIndex, listItem)</code>	<code>ListItem</code>	Inserts the given <code>ListItem</code> at the specified index.
<code>insertListItem(childIndex, text)</code>	<code>ListItem</code>	Creates and inserts a new <code>ListItem</code> at the specified index, containing the specified text contents.
<code>insertParagraph(childIndex, paragraph)</code>	<code>Paragraph</code>	Inserts the given <code>Paragraph</code> at the specified index.
<code>insertParagraph(childIndex, text)</code>	<code>Paragraph</code>	Creates and inserts a new <code>Paragraph</code> at the specified index, containing the specified text contents.
<code>insertTable(childIndex)</code>	<code>Table</code>	Creates and inserts a new <code>Table</code> at the specified index.
<code>insertTable(childIndex, cells)</code>	<code>Table</code>	Creates and inserts a new <code>Table</code> containing the specified cells, at the specified index.
<code>insertTable(childIndex, table)</code>	<code>Table</code>	Inserts the given <code>Table</code> at the specified index.
<code>removeChild(child)</code>	<code>FooterSection</code>	Removes the specified child element.
<code>removeFromParent()</code>	<code>FooterSection</code>	Removes the element from its parent.
<code>replaceText(searchPattern, replacement)</code>	<code>Element</code>	Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.
<code>setAttributes(attributes)</code>	<code>FooterSection</code>	Sets the element's attributes.
<code>setText(text)</code>	<code>FooterSection</code>	Sets the contents as plain text.
<code>setTextAlignment(textAlignment)</code>	<code>FooterSection</code>	Sets the text alignment.

Class `Footnote`

Methods

Method	Return type	Brief description
<code>copy()</code>	<code>Footnote</code>	Returns a detached, deep copy of the current element.
<code>getAttributes()</code>	<code>Object</code>	Retrieves the element's attributes.
<code>getFootnoteContents()</code>	<code>FootnoteSection</code>	Retrieves the contents of the footnote element.
<code>getNextSibling()</code>	<code>Element</code>	Retrieves the element's next sibling element.
<code>getParent()</code>	<code>ContainerElement</code>	Retrieves the element's parent element.
<code>getPreviousSibling()</code>	<code>Element</code>	Retrieves the element's previous sibling element.
<code>getType()</code>	<code>ElementType</code>	Retrieves the element's <code>ElementType</code> .
<code>isAtDocumentEnd()</code>	<code>Boolean</code>	Determines whether the element is at the end of the Document.
<code>removeFromParent()</code>	<code>Footnote</code>	Removes the element from its parent.
<code>setAttributes(attributes)</code>	<code>Footnote</code>	Sets the element's attributes.

Class `FootnoteSection`

Methods

Method	Return type	Brief description
<code>appendParagraph(paragraph)</code>	<code>Paragraph</code>	Appends the given <code>Paragraph</code> .
<code>appendParagraph(text)</code>	<code>Paragraph</code>	Creates and appends a new <code>Paragraph</code> containing the specified text contents.
<code>clear()</code>	<code>FootnoteSection</code>	Clears the contents of the element.

copy() FootnoteSection Returns a detached, deep copy of the current element.
 editAsText() Text Obtains a Text version of the current element, for editing.
 findElement(elementType) RangeElement Searches the contents of the element for a descendant of the specified type.
 findElement(elementType, from) RangeElement Searches the contents of the element for a descendant of the specified type, starting from the specified RangeElement.
 findText(searchPattern) RangeElement Searches the contents of the element for the specified text pattern using regular expressions.
 findText(searchPattern, from) RangeElement Searches the contents of the element for the specified text pattern, starting from a given search result.
 getAttributes() Object Retrieves the element's attributes.
 getChild(childIndex) Element Retrieves the child element at the specified child index.
 getChildIndex(child) Integer Retrieves the child index for the specified child element.
 getNextSibling() Element Retrieves the element's next sibling element.
 getNumChildren() Integer Retrieves the number of children.
 getParagraphs() Paragraph[] Retrieves all the Paragraphs contained in the section.
 getParent() ContainerElement Retrieves the element's parent element.
 getPreviousSibling() Element Retrieves the element's previous sibling element.
 getText() String Retrieves the contents of the element as a text string.
 getTextAlignment() TextAlignment Gets the text alignment.
 getType() ElementType Retrieves the element's ElementType.
 insertParagraph(childIndex, paragraph) Paragraph Inserts the given Paragraph at the specified index.
 insertParagraph(childIndex, text) Paragraph Creates and inserts a new Paragraph at the specified index, containing the specified text contents.
 removeChild(child) FootnoteSection Removes the specified child element.
 removeFromParent() FootnoteSection Removes the element from its parent.
 replaceText(searchPattern, replacement) Element Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.
 setAttributes(attributes) FootnoteSection Sets the element's attributes.
 setText(text) FootnoteSection Sets the contents as plain text.
 setTextAlignment(textAlignment) FootnoteSection Sets the text alignment.
 Class GlyphType

Properties

Property	Type	Description
BULLET	Enum	The default bullet, circular and filled.
HOLLOW_BULLET	Enum	A hollow bullet.
SQUARE_BULLET	Enum	A square bullet.
NUMBER	Enum	A number based bullet.
LATIN_UPPER	Enum	A latin, uppercase bullet.
LATIN_LOWER	Enum	A latin, lowercase bullet.
ROMAN_UPPER	Enum	A roman numeral, uppercase bullet.

ROMAN_LOWER Enum A roman numeral, lowercase bullet.

Class HeaderSection

Methods

Method	Return type	Brief description
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appendHorizontalRule()	HorizontalRule	Creates and appends a new HorizontalRule.
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appendImage(image)	InlineImage	Creates and appends a new InlineImage from the specified image blob.
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appendImage(image)	InlineImage	Appends the given InlineImage.
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appendListItem(listItem)	ListItem	Appends the given ListItem.
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appendListItem(text)	ListItem	Creates and appends a new ListItem containing the specified text contents.
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appendParagraph(paragraph)	Paragraph	Appends the given Paragraph.
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appendParagraph(text)	Paragraph	Creates and appends a new Paragraph containing the specified text contents.
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appendTable()	Table	Creates and appends a new Table.
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appendTable(cells)	Table	Appends a new Table containing a TableCell for each specified string value.
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appendTable(table)	Table	Appends the given Table.
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clear()	HeaderSection	Clears the contents of the element.
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copy()	HeaderSection	Returns a detached, deep copy of the current element.
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editAsText()	Text	Obtains a Text version of the current element, for editing.
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findElement(elementType)	RangeElement	Searches the contents of the element for a descendant of the specified type.
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findElement(elementType, from)	RangeElement	Searches the contents of the element for a descendant of the specified type, starting from the specified RangeElement.
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findText(searchPattern)	RangeElement	Searches the contents of the element for the specified text pattern using regular expressions.
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findText(searchPattern, from)	RangeElement	Searches the contents of the element for the specified text pattern, starting from a given search result.
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getAttributes()	Object	Retrieves the element's attributes.
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getChild(childIndex)	Element	Retrieves the child element at the specified child index.
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getChildIndex(child)	Integer	Retrieves the child index for the specified child element.
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getImages()	InlineImage[]	Retrieves all the InlineImages contained in the section.
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getListItems()	ListItem[]	Retrieves all the ListItems contained in the section.
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getNumChildren()	Integer	Retrieves the number of children.
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getParagraphs()	Paragraph[]	Retrieves all the Paragraphs contained in the section.
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getParent()	ContainerElement	Retrieves the element's parent element.
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getTables()	Table[]	Retrieves all the Tables contained in the section.
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getText()	String	Retrieves the contents of the element as a text string.
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getTextAlignment()	TextAlignment	Gets the text alignment.
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getType()	ElementType	Retrieves the element's ElementType.
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<code>insertHorizontalRule(childIndex)</code>	<code>HorizontalRule</code>	Creates and inserts a new <code>HorizontalRule</code> at the specified index.
<code>insertImage(childIndex, image)</code>	<code>InlinelImage</code>	Creates and inserts an <code>InlinelImage</code> from the specified image blob, at the specified index.
<code>insertImage(childIndex, image)</code>	<code>InlinelImage</code>	Inserts the given <code>InlinelImage</code> at the specified index.
<code>insertListItem(childIndex, listItem)</code>	<code>ListliItem</code>	Inserts the given <code>ListliItem</code> at the specified index.
<code>insertListItem(childIndex, text)</code>	<code>ListliItem</code>	Creates and inserts a new <code>ListliItem</code> at the specified index, containing the specified text contents.
<code>insertParagraph(childIndex, paragraph)</code>	<code>Paragraph</code>	Inserts the given <code>Paragraph</code> at the specified index.
<code>insertParagraph(childIndex, text)</code>	<code>Paragraph</code>	Creates and inserts a new <code>Paragraph</code> at the specified index, containing the specified text contents.
<code>insertTable(childIndex)</code>	<code>Table</code>	Creates and inserts a new <code>Table</code> at the specified index.
<code>insertTable(childIndex, cells)</code>	<code>Table</code>	Creates and inserts a new <code>Table</code> containing the specified cells, at the specified index.
<code>insertTable(childIndex, table)</code>	<code>Table</code>	Inserts the given <code>Table</code> at the specified index.
<code>removeChild(child)</code>	<code>HeaderSection</code>	Removes the specified child element.
<code>removeFromParent()</code>	<code>HeaderSection</code>	Removes the element from its parent.
<code>replaceText(searchPattern, replacement)</code>	<code>Element</code>	Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.
<code>setAttributes(attributes)</code>	<code>HeaderSection</code>	Sets the element's attributes.
<code>setText(text)</code>	<code>HeaderSection</code>	Sets the contents as plain text.
<code>setTextAlignment(textAlignment)</code>	<code>HeaderSection</code>	Sets the text alignment.

Class `HorizontalAlignment`

Properties

Property	Type	Description
<code>LEFT</code>	<code>Enum</code>	The left-alignment option.
<code>CENTER</code>	<code>Enum</code>	The center-alignment option.
<code>RIGHT</code>	<code>Enum</code>	The right-alignment option.
<code>JUSTIFY</code>	<code>Enum</code>	The justify-alignment option.

Class `HorizontalRule`

Methods

Method	Return type	Brief description
<code>copy()</code>	<code>HorizontalRule</code>	Returns a detached, deep copy of the current element.
<code>getAttributes()</code>	<code>Object</code>	Retrieves the element's attributes.
<code>getNextSibling()</code>	<code>Element</code>	Retrieves the element's next sibling element.
<code>getParent()</code>	<code>ContainerElement</code>	Retrieves the element's parent element.
<code>getPreviousSibling()</code>	<code>Element</code>	Retrieves the element's previous sibling element.
<code>getType()</code>	<code>ElementType</code>	Retrieves the element's <code>ElementType</code> .

isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
removeFromParent()	HorizontalRule	Removes the element from its parent.
setAttributes(attributes)	HorizontalRule	Sets the element's attributes.

Class InlineDrawing

Methods

Method	Return type	Brief description
copy()	InlineDrawing	Returns a detached, deep copy of the current element.
getAttributes()	Object	Retrieves the element's attributes.
getNextSibling()	Element	Retrieves the element's next sibling element.
getParent()	ContainerElement	Retrieves the element's parent element.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getType()	ElementType	Retrieves the element's ElementType.
isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
merge()	InlineDrawing	Merges the element with the preceding sibling of the same type.
removeFromParent()	InlineDrawing	Removes the element from its parent.
setAttributes(attributes)	InlineDrawing	Sets the element's attributes.

Class InlinelImage

Methods

Method	Return type	Brief description
copy()	InlinelImage	Returns a detached, deep copy of the current element.
getAs(contentType)	Blob	Return the data inside this object as a blob converted to the specified content type.
getAttributes()	Object	Retrieves the element's attributes.
getBlob()	Blob	Return the data inside this object as a blob.
getHeight()	Integer	Retrieves the image's height, in pixels.
getLinkUrl()	String	Retrieves the link URL.
getNextSibling()	Element	Retrieves the element's next sibling element.
getParent()	ContainerElement	Retrieves the element's parent element.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getType()	ElementType	Retrieves the element's ElementType.
getWidth()	Integer	Retrieves the image's width, in pixels.
isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
merge()	InlinelImage	Merges the element with the preceding sibling of the same type.
removeFromParent()	InlinelImage	Removes the element from its parent.
setAttributes(attributes)	InlinelImage	Sets the element's attributes.
setHeight(height)	InlinelImage	Sets the image's height, in pixels.
setLinkUrl(url)	InlinelImage	Sets the link URL.
setWidth(width)	InlinelImage	Sets the image's width, in pixels.

Class ListItem

Methods

Method	Return type	Brief description
appendHorizontalRule()	HorizontalRule	Creates and appends a new HorizontalRule.
appendInlinelImage(image)	InlinelImage	Creates and appends a new InlinelImage from the specified image blob.
appendInlinelImage(image)	InlinelImage	Appends the given InlinelImage.
appendPageBreak()	PageBreak	Creates and appends a new PageBreak.
appendPageBreak(pageBreak)	PageBreak	Appends the given PageBreak.
appendText(text)	Text	Creates and appends a new Text element with the specified contents.
appendText(text)	Text	Appends the given Text element.
clear()	ListItem	Clears the contents of the element.
copy()	ListItem	Returns a detached, deep copy of the current element.
editAsText()	Text	Obtains a Text version of the current element, for editing.
findElement(elementType)	RangeElement	Searches the contents of the element for a descendant of the specified type.
findElement(elementType, from)	RangeElement	Searches the contents of the element for a descendant of the specified type, starting from the specified RangeElement.
findText(searchPattern)	RangeElement	Searches the contents of the element for the specified text pattern using regular expressions.
findText(searchPattern, from)	RangeElement	Searches the contents of the element for the specified text pattern, starting from a given search result.
getAlignment()	HorizontalAlignment	Retrieves the HorizontalAlignment.
getAttributes()	Object	Retrieves the element's attributes.
getChild(childIndex)	Element	Retrieves the child element at the specified child index.
getChildIndex(child)	Integer	Retrieves the child index for the specified child element.
getGlyphType()	GlyphType	Retrieves the list item's GlyphType.
getHeading()	ParagraphHeading	Retrieves the ParagraphHeading.
getIndentEnd()	Number	Retrieves the end indentation, in points.
getIndentFirstLine()	Number	Retrieves the first line indentation, in points.
getIndentStart()	Number	Retrieves the start indentation.
getLineSpacing()	Number	Retrieves the line spacing, in points.
getLinkUrl()	String	Retrieves the link url.
getListId()	String	Retrieves the list ID.
getNestingLevel()	Integer	Retrieves the list item's nesting level.
getNextSibling()	Element	Retrieves the element's next sibling element.
getNumChildren()	Integer	Retrieves the number of children.
getParent()	ContainerElement	Retrieves the element's parent element.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getSpacingAfter()	Number	Retrieves the spacing after the element, in points.
getSpacingBefore()	Number	Retrieves the spacing before the element, in points.

getText() String Retrieves the contents of the element as a text string.
 getTextAlignment() TextAlignment Gets the text alignment.
 getType() ElementType Retrieves the element's ElementType.
 insertHorizontalRule(childIndex) HorizontalRule Creates and inserts a HorizontalRule at the specified index.
 insertInlinelImage(childIndex, image) InlinelImage Creates and inserts a new InlinelImage from the specified image blob, at the specified index.
 insertInlinelImage(childIndex, image) InlinelImage Inserts the given InlinelImage at the specified index.
 insertPageBreak(childIndex) PageBreak Creates and inserts a new PageBreak at the specified index.
 insertPageBreak(childIndex, pageBreak) PageBreak Inserts the given PageBreak at the specified index.
 insertText(childIndex, text) Text Creates and inserts a new text element at the specified index.
 insertText(childIndex, text) Text Inserts the given Text element at the specified index, with the specified text contents.
 isAtDocumentEnd() Boolean Determines whether the element is at the end of the Document.
 isLeftToRight() Boolean Retrieves the left-to-right setting.
 merge() ListItem Merges the element with the preceding sibling of the same type.
 removeChild(child) ListItem Removes the specified child element.
 removeFromParent() ListItem Removes the element from its parent.
 replaceText(searchPattern, replacement) Element Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.
 setAlignment(alignment) ListItem Sets the HorizontalAlignment.
 setAttributes(attributes) ListItem Sets the element's attributes.
 setGlyphType(glyphType) ListItem Sets the list item's GlyphType.
 setHeading(heading) ListItem Sets the ParagraphHeading.
 setIndentEnd(indentEnd) ListItem Sets the end indentation, in points.
 setIndentFirstLine(indentFirstLine) ListItem Sets the first line indentation, in points.
 setIndentStart(indentStart) ListItem Sets the start indentation, in points.
 setLeftToRight(leftToRight) ListItem Sets the left-to-right setting.
 setLineSpacing(multiplier) ListItem Sets the line spacing, as a quantity indicating the number of lines to use for spacing.
 setLinkUrl(url) ListItem Sets the link url.
 setListId(listItem) ListItem Sets the list ID.
 setNestingLevel(nestingLevel) ListItem Sets the list item's nesting level.
 setSpacingAfter(spacingAfter) ListItem Sets the spacing after the element, in points.
 setSpacingBefore(spacingBefore) ListItem Sets the spacing before the element, in points.
 setText(text) void Sets the contents of the list item as text.

setTextAlignment(textAlignment) ListItem Sets the text alignment.
Class NamedRange

Methods

Method	Return type	Brief description
getId()	String	Gets the ID of this NamedRange.
getName()	String	Gets the name of this NamedRange.
getRange()	Range	Gets the range of elements associated with this NamedRange.
remove()	void	Removes this NamedRange from the document.

Class PageBreak

Methods

Method	Return type	Brief description
copy()	PageBreak	Returns a detached, deep copy of the current element.
getAttributes()	Object	Retrieves the element's attributes.
getNextSibling()	Element	Retrieves the element's next sibling element.
getParent()	ContainerElement	Retrieves the element's parent element.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getType()	ElementType	Retrieves the element's ElementType.
isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
removeFromParent()	PageBreak	Removes the element from its parent.
setAttributes(attributes)	PageBreak	Sets the element's attributes.

Class Paragraph

Methods

Method	Return type	Brief description
appendHorizontalRule()	HorizontalRule	Creates and appends a new HorizontalRule.
appendInlinelImage(image)	InlinelImage	Creates and appends a new InlinelImage from the specified image blob.
appendInlinelImage(image)	InlinelImage	Appends the given InlinelImage.
appendPageBreak()	PageBreak	Creates and appends a new PageBreak.
appendPageBreak(pageBreak)	PageBreak	Appends the given PageBreak.
appendText(text)	Text	Creates and appends a new Text element with the specified contents.
appendText(text)	Text	Appends the given Text element.
clear()	Paragraph	Clears the contents of the element.
copy()	Paragraph	Returns a detached, deep copy of the current element.
editAsText()	Text	Obtains a Text version of the current element, for editing.
findElement(elementType)	RangeElement	Searches the contents of the element for a descendant of the specified type.
findElement(elementType, from)	RangeElement	Searches the contents of the element for a descendant of the specified type, starting from the specified RangeElement.

<code>findText(searchPattern)</code>	<code>RangeElement</code>	Searches the contents of the element for the specified text pattern using regular expressions.
<code>findText(searchPattern, from)</code>	<code>RangeElement</code>	Searches the contents of the element for the specified text pattern, starting from a given search result.
<code>getAlignment()</code>	<code>HorizontalAlignment</code>	Retrieves the <code>HorizontalAlignment</code> .
<code>getAttributes()</code>	<code>Object</code>	Retrieves the element's attributes.
<code>getChild(childIndex)</code>	<code>Element</code>	Retrieves the child element at the specified child index.
<code>getChildIndex(child)</code>	<code>Integer</code>	Retrieves the child index for the specified child element.
<code>getHeading()</code>	<code>ParagraphHeading</code>	Retrieves the <code>ParagraphHeading</code> .
<code>getIndentEnd()</code>	<code>Number</code>	Retrieves the end indentation, in points.
<code>getIndentFirstLine()</code>	<code>Number</code>	Retrieves the first line indentation, in points.
<code>getIndentStart()</code>	<code>Number</code>	Retrieves the start indentation.
<code>getLineSpacing()</code>	<code>Number</code>	Retrieves the line spacing, in points.
<code>getLinkUrl()</code>	<code>String</code>	Retrieves the link url.
<code>getNextSibling()</code>	<code>Element</code>	Retrieves the element's next sibling element.
<code>getNumChildren()</code>	<code>Integer</code>	Retrieves the number of children.
<code>getParent()</code>	<code>ContainerElement</code>	Retrieves the element's parent element.
<code>getPreviousSibling()</code>	<code>Element</code>	Retrieves the element's previous sibling element.
<code>getSpacingAfter()</code>	<code>Number</code>	Retrieves the spacing after the element, in points.
<code>getSpacingBefore()</code>	<code>Number</code>	Retrieves the spacing before the element, in points.
<code>getText()</code>	<code>String</code>	Retrieves the contents of the element as a text string.
<code>getTextAlignment()</code>	<code>TextAlignment</code>	Gets the text alignment.
<code>getType()</code>	<code>ElementType</code>	Retrieves the element's <code>ElementType</code> .
<code>insertHorizontalRule(childIndex)</code>	<code>HorizontalRule</code>	Creates and inserts a <code>HorizontalRule</code> at the specified index.
<code>insertInlinelImage(childIndex, image)</code>	<code>InlinelImage</code>	Creates and inserts a new <code>InlinelImage</code> from the specified image blob, at the specified index.
<code>insertInlinelImage(childIndex, image)</code>	<code>InlinelImage</code>	Inserts the given <code>InlinelImage</code> at the specified index.
<code>insertPageBreak(childIndex)</code>	<code>PageBreak</code>	Creates and inserts a new <code>PageBreak</code> at the specified index.
<code>insertPageBreak(childIndex, pageBreak)</code>	<code>PageBreak</code>	Inserts the given <code>PageBreak</code> at the specified index.
<code>insertText(childIndex, text)</code>	<code>Text</code>	Creates and inserts a new text element at the specified index.
<code>insertText(childIndex, text)</code>	<code>Text</code>	Inserts the given <code>Text</code> element at the specified index, with the specified text contents.
<code>isAtDocumentEnd()</code>	<code>Boolean</code>	Determines whether the element is at the end of the Document.
<code>isLeftToRight()</code>	<code>Boolean</code>	Retrieves the left-to-right setting.
<code>merge()</code>	<code>Paragraph</code>	Merges the element with the preceding sibling of the same type.
<code>removeChild(child)</code>	<code>Paragraph</code>	Removes the specified child element.
<code>removeFromParent()</code>	<code>Paragraph</code>	Removes the element from its parent.

replaceText(searchPattern, replacement)	Element	Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.
setAlignment(alignment)	Paragraph	Sets the HorizontalAlignment.
setAttributes(attributes)	Paragraph	Sets the element's attributes.
setHeading(heading)	Paragraph	Sets the ParagraphHeading.
setIndentEnd(indentEnd)	Paragraph	Sets the end indentation, in points.
setIndentFirstLine(indentFirstLine)	Paragraph	Sets the first line indentation, in points.
setIndentStart(indentStart)	Paragraph	Sets the start indentation, in points.
setLeftToRight(leftToRight)	Paragraph	Sets the left-to-right setting.
setLineSpacing(multiplier)	Paragraph	Sets the line spacing, as a quantity indicating the number of lines to use for spacing.
setLinkUrl(url)	Paragraph	Sets the link url.
setSpacingAfter(spacingAfter)	Paragraph	Sets the spacing after the element, in points.
setSpacingBefore(spacingBefore)	Paragraph	Sets the spacing before the element, in points.
setText(text)	void	Sets the contents of the paragraph as text.
setTextAlignment(textAlignment)	Paragraph	Sets the text alignment.

Class ParagraphHeading

Properties

Property	Type	Description
NORMAL	Enum	The heading option for normal text.
HEADING1	Enum	The highest heading option.
HEADING2	Enum	The second heading option.
HEADING3	Enum	The third heading option.
HEADING4	Enum	The fourth heading option.
HEADING5	Enum	The fifth heading option.
HEADING6	Enum	The lowest heading option.
TITLE	Enum	The title heading option.
SUBTITLE	Enum	The subtitle heading option.

Class Position

Methods

Method	Return type	Brief description
getElement()	Element	Gets the element that contains this Position.
getOffset()	Integer	Gets this Position's relative location within the element that contains it.
getSurroundingText()	Text	Creates an artificial Text element that represents the text and formatting of the Paragraph or ListItem that contains the Position, either directly or through a chain of child elements.
getSurroundingTextOffset()	Integer	Gets the offset of this Position within the Text element returned by getSurroundingText().
insertBookmark()	Bookmark	Creates and inserts a new Bookmark at this Position.

insertInlinelImage(image) InlinelImage Creates and inserts a new InlinelImage at this Position from the specified image blob.

insertText(text) Text Inserts the specified text at this Position.

Class Range

Methods

Method	Return type	Brief description
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getRangeElements()	RangeElement[]	Gets all elements in this Range, including any partial Text elements (for example, in the case of a selection that includes only part of a Text element).
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Class RangeBuilder

Methods

Method	Return type	Brief description
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addElement(element)	RangeBuilder	Adds an entire Element to this RangeBuilder.
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addElement(textElement, startOffset, endOffsetInclusive)	RangeBuilder	Adds a partial Text element to this RangeBuilder.
--	--------------	---

addElementsBetween(startElement, endElementInclusive)	RangeBuilder	Adds two entire elements, and all elements between them, to this RangeBuilder.
---	--------------	--

addElementsBetween(startTextElement, startOffset, endTextElementInclusive, endOffsetInclusive)	RangeBuilder	Adds two partial Text elements, and all elements between them, to the RangeBuilder.
--	--------------	---

addRange(range)	RangeBuilder	Adds the contents of another RangeBuilder to this RangeBuilder.
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build()	Range	Constructs a RangeBuilder from the settings applied to the builder.
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getRangeElements()	RangeElement[]	Gets all elements in this Range, including any partial Text elements (for example, in the case of a selection that includes only part of a Text element).
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Class RangeElement

Methods

Method	Return type	Brief description
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getElement()	Element	Gets the Element that corresponds to this RangeElement.
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getEndOffsetInclusive()	Integer	Gets the position of the end of a partial range within the range element.
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getStartOffset()	Integer	Gets the position of the start of a partial range within the range element.
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isPartial()	Boolean	Determines whether this range element covers the entire element or a partial selection of the element's characters.
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Class Table

Methods

Method	Return type	Brief description
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appendTableRow() TableRow Creates and appends a new TableRow.
 appendTableRow(tableRow) TableRow Appends the given TableRow.
 clear() Table Clears the contents of the element.
 copy() Table Returns a detached, deep copy of the current element.
 editAsText() Text Obtains a Text version of the current element, for editing.
 findElement(elementType) RangeElement Searches the contents of the element for a descendant of the specified type.
 findElement(elementType, from) RangeElement Searches the contents of the element for a descendant of the specified type, starting from the specified RangeElement.
 findText(searchPattern) RangeElement Searches the contents of the element for the specified text pattern using regular expressions.
 findText(searchPattern, from) RangeElement Searches the contents of the element for the specified text pattern, starting from a given search result.
 getAttributes() Object Retrieves the element's attributes.
 getBorderColor() String Retrieves the border color.
 getBorderWidth() Number Retrieves the border width, in points.
 getCell(rowIndex, cellIndex) TableCell Retrieves the TableCell at the specified row and cell indices.
 getChild(childIndex) Element Retrieves the child element at the specified child index.
 getChildIndex(child) Integer Retrieves the child index for the specified child element.
 getColumnWidth(columnIndex) Number Retrieves the width of the specified table column, in points.
 getLinkUrl() String Retrieves the link url.
 getNextSibling() Element Retrieves the element's next sibling element.
 getNumChildren() Integer Retrieves the number of children.
 getNumRows() Integer Retrieves the number of TableRows.
 getParent() ContainerElement Retrieves the element's parent element.
 getPreviousSibling() Element Retrieves the element's previous sibling element.
 getRow(rowIndex) TableRow Retrieves the TableRow at the specified row index.
 getText() String Retrieves the contents of the element as a text string.
 getTextAlignment() TextAlignment Gets the text alignment.
 getType() ElementType Retrieves the element's ElementType.
 insertTableRow(childIndex) TableRow Creates and inserts a new TableRow at the specified index.
 insertTableRow(childIndex, tableRow) TableRow Inserts the given TableRow at the specified index.
 isAtDocumentEnd() Boolean Determines whether the element is at the end of the Document.
 removeChild(child) Table Removes the specified child element.
 removeFromParent() Table Removes the element from its parent.
 removeRow(rowIndex) TableRow Removes the TableRow at the specified row index.
 replaceText(searchPattern, replacement) Element Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.

setAttributes(attributes)	Table	Sets the element's attributes.
setBorderColor(color)	Table	Sets the border color.
setBorderWidth(width)	Table	Sets the border width, in points.
setColumnWidth(columnIndex, width)	Table	Sets the width of the specified column, in points.
setLinkUrl(url)	Table	Sets the link url.
setTextAlignment(textAlignment)	Table	Sets the text alignment.

Class TableCell

Methods

Method	Return type	Brief description
appendHorizontalRule()	HorizontalRule	Creates and appends a new HorizontalRule.
appendImage(image)	InlinelImage	Creates and appends a new InlinelImage from the specified image blob.
appendImage(image)	InlinelImage	Appends the given InlinelImage.
appendListItem(listItem)	ListlItem	Appends the given ListlItem.
appendListItem(text)	ListlItem	Creates and appends a new ListlItem.
appendParagraph(paragraph)	Paragraph	Appends the given Paragraph.
appendParagraph(text)	Paragraph	Creates and appends a new Paragraph.
appendTable()	Table	Creates and appends a new Table.
appendTable(cells)	Table	Appends a new Table containing the specified cells.
appendTable(table)	Table	Appends the given Table.
clear()	TableCell	Clears the contents of the element.
copy()	TableCell	Returns a detached, deep copy of the current element.
editAsText()	Text	Obtains a Text version of the current element, for editing.
findElement(elementType)	RangeElement	Searches the contents of the element for a descendant of the specified type.
findElement(elementType, from)	RangeElement	Searches the contents of the element for a descendant of the specified type, starting from the specified RangeElement.
findText(searchPattern)	RangeElement	Searches the contents of the element for the specified text pattern using regular expressions.
findText(searchPattern, from)	RangeElement	Searches the contents of the element for the specified text pattern, starting from a given search result.
getAttributes()	Object	Retrieves the element's attributes.
getBackgroundColor()	String	Retrieves the background color.
getChild(childIndex)	Element	Retrieves the child element at the specified child index.
getChildIndex(child)	Integer	Retrieves the child index for the specified child element.
getLinkUrl()	String	Retrieves the link url.
getNextSibling()	Element	Retrieves the element's next sibling element.
getNumChildren()	Integer	Retrieves the number of children.
getPaddingBottom()	Number	Retrieves the bottom padding, in points.
getPaddingLeft()	Number	Retrieves the left padding, in points.
getPaddingRight()	Number	Retrieves the right padding, in points.

getPaddingTop()	Number	Retrieves the top padding, in points.
getParent()	ContainerElement	Retrieves the element's parent element.
getParentRow()	TableRow	Retrieves the TableRow containing the current TableCell.
getParentTable()	Table	Retrieves the Table containing the current TableCell.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getText()	String	Retrieves the contents of the element as a text string.
getTextAlignment()	TextAlignment	Gets the text alignment.
getType()	ElementType	Retrieves the element's ElementType.
getVerticalAlignment()	VerticalAlignment	Retrieves the VerticalAlignment.
getWidth()	Number	Retrieves the width of the column containing the cell, in points.
insertHorizontalRule(childIndex)	HorizontalRule	Creates and inserts a new HorizontalRule at the specified index.
insertImage(childIndex, image)	InlinelImage	Creates and inserts an InlinelImage from the specified image blob, at the specified index.
insertImage(childIndex, image)	InlinelImage	Inserts the given InlinelImage at the specified index.
insertListItem(childIndex, listItem)	ListItem	Inserts the given ListItem at the specified index.
insertListItem(childIndex, text)	ListItem	Creates and inserts a new ListItem at the specified index.
insertParagraph(childIndex, paragraph)	Paragraph	Inserts the given Paragraph at the specified index.
insertParagraph(childIndex, text)	Paragraph	Creates and inserts a new Paragraph at the specified index.
insertTable(childIndex)	Table	Creates and inserts a new Table at the specified index.
insertTable(childIndex, cells)	Table	Creates and inserts a new Table containing the specified cells, at the specified index.
insertTable(childIndex, table)	Table	Inserts the given Table at the specified index.
isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
merge()	TableCell	Merges the element with the preceding sibling of the same type.
removeChild(child)	TableCell	Removes the specified child element.
removeFromParent()	TableCell	Removes the element from its parent.
replaceText(searchPattern, replacement)	Element	Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.
setAttributes(attributes)	TableCell	Sets the element's attributes.
setBackgroundColor(color)	TableCell	Sets the background color.
setLinkUrl(url)	TableCell	Sets the link url.
setPaddingBottom(paddingBottom)		

TableCell **Sets the** bottom padding, in points.

setPaddingLeft(paddingLeft) TableCell Sets the left padding, in points.

setPaddingRight(paddingTop) TableCell Sets the right padding, in points.

setPaddingTop(paddingTop) TableCell Sets the top padding, in points.
 setText(text) TableCell Sets the contents as plain text.
 setTextAlignment(textAlignment) TableCell Sets the text alignment.
 setVerticalAlignment(alignment) TableCell Sets the vertical alignment.
 setWidth(width) TableCell Sets the width of the column containing the current cell, in points.
 Class TableOfContents

Methods

Method	Return type	Brief description
clear()	TableOfContents	Clears the contents of the element.
copy()	TableOfContents	Returns a detached, deep copy of the current element.
editAsText()	Text	Obtains a Text version of the current element, for editing.
findElement(elementType)	RangeElement	Searches the contents of the element for a descendant of the specified type.
findElement(elementType, from)	RangeElement	Searches the contents of the element for a descendant of the specified type, starting from the specified RangeElement.
findText(searchPattern)	RangeElement	Searches the contents of the element for the specified text pattern using regular expressions.
findText(searchPattern, from)	RangeElement	Searches the contents of the element for the specified text pattern, starting from a given search result.
getAttributes()	Object	Retrieves the element's attributes.
getChild(childIndex)	Element	Retrieves the child element at the specified child index.
getChildIndex(child)	Integer	Retrieves the child index for the specified child element.
getLinkUrl()	String	Retrieves the link url.
getNextSibling()	Element	Retrieves the element's next sibling element.
getNumChildren()	Integer	Retrieves the number of children.
getParent()	ContainerElement	Retrieves the element's parent element.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getText()	String	Retrieves the contents of the element as a text string.
getTextAlignment()	TextAlignment	Gets the text alignment.
getType()	ElementType	Retrieves the element's ElementType.
isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
removeFromParent()	TableOfContents	Removes the element from its parent.
replaceText(searchPattern, replacement)	Element	Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.
setAttributes(attributes)	TableOfContents	Sets the element's attributes.
setLinkUrl(url)	TableOfContents	Sets the link url.
setTextAlignment(textAlignment)	TableOfContents	Sets the text alignment.

Class TableRow

Methods

Method	Return type	Brief description
appendTableCell()	TableCell	Creates and appends a new TableCell.
appendTableCell(textContents)	TableCell	Appends the given TableCell containing the specified text.
appendTableCell(tableCell)	TableCell	Appends the given TableCell.
clear()	TableRow	Clears the contents of the element.
copy()	TableRow	Returns a detached, deep copy of the current element.
editAsText()	Text	Obtains a Text version of the current element, for editing.
findElement(elementType)	RangeElement	Searches the contents of the element for a descendant of the specified type.
findElement(elementType, from)	RangeElement	Searches the contents of the element for a descendant of the specified type, starting from the specified RangeElement.
findText(searchPattern)	RangeElement	Searches the contents of the element for the specified text pattern using regular expressions.
findText(searchPattern, from)	RangeElement	Searches the contents of the element for the specified text pattern, starting from a given search result.
getAttributes()	Object	Retrieves the element's attributes.
getCell(cellIndex)	TableCell	Retrieves the TableCell at the specified cell index.
getChild(childIndex)	Element	Retrieves the child element at the specified child index.
getChildIndex(child)	Integer	Retrieves the child index for the specified child element.
getLinkUrl()	String	Retrieves the link url.
getMinimumHeight()	Integer	Retrieves the minimum height, in points.
getNextSibling()	Element	Retrieves the element's next sibling element.
getNumCells()	Integer	Retrieves the number of cells in the row.
getNumChildren()	Integer	Retrieves the number of children.
getParent()	ContainerElement	Retrieves the element's parent element.
getParentTable()	Table	Retrieves the Table containing the current row.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getText()	String	Retrieves the contents of the element as a text string.
getTextAlignment()	TextAlignment	Gets the text alignment.
getType()	ElementType	Retrieves the element's ElementType.
insertTableCell(childIndex)	TableCell	Creates and inserts a new TableCell at the specified index.
insertTableCell(childIndex, textContents)	TableCell	Inserts the given TableCell at the specified index, containing the given text.
insertTableCell(childIndex, tableCell)	TableCell	Inserts the given TableCell at the specified index.
isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
merge()	TableRow	Merges the element with the preceding sibling of the same type.
removeCell(cellIndex)	TableCell	Removes the TableCell at the specified cell index.
removeChild(child)	TableRow	Removes the specified child element.
removeFromParent()	TableRow	Removes the element from its parent.

replaceText(searchPattern, replacement)	Element	Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.
setAttributes(attributes)	TableRow	Sets the element's attributes.
setLinkUrl(url)	TableRow	Sets the link url.
setMinimumHeight(minHeight)	TableRow	Sets the minimum height, in points.
setTextAlignment(textAlignment)	TableRow	Sets the text alignment.

Class Text

Methods

Method	Return type	Brief description
appendText(text)	Text	Appends the specified text at the given character offset.
copy()	Text	Returns a detached, deep copy of the current element.
deleteText(startOffset, endOffsetInclusive)	Text	Deletes a range of text.
editAsText()	Text	Obtains a Text version of the current element, for editing.
findText(searchPattern)	RangeElement	Searches the contents of the element for the specified text pattern using regular expressions.
findText(searchPattern, from)	RangeElement	Searches the contents of the element for the specified text pattern, starting from a given search result.
getAttributes()	Object	Retrieves the element's attributes.
getAttributes(offset)	Object	Retrieves the attributes at the specified character offset.
getBackgroundColor()	String	Retrieves the background color setting.
getBackgroundColor(offset)	String	Retrieves the background color at the specified character offset.
getFontFamily()	FontFamily	Retrieves the font family setting.
getFontFamily(offset)	FontFamily	Retrieves the font family at the specified character offset.
getFontSize()	Integer	Retrieves the font size setting.
getFontSize(offset)	Integer	Retrieves the font size at the specified character offset.
getForegroundColor()	String	Retrieves the foreground color setting.
getForegroundColor(offset)	String	Retrieves the foreground color at the specified character offset.
getLinkUrl()	String	Retrieves the link url.
getLinkUrl(offset)	String	Retrieves the link url at the specified character offset.
getNextSibling()	Element	Retrieves the element's next sibling element.
getParent()	ContainerElement	Retrieves the element's parent element.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getText()	String	Retrieves the contents of the element as a text string.
getTextAlignment()	TextAlignment	Gets the text alignment.
getTextAlignment(offset)	TextAlignment	Gets the text alignment for a single character.
getTextAttributeIndices()	Integer[]	Retrieves the set of text indices that correspond to the start of distinct text formatting runs.
getType()	ElementType	Retrieves the element's ElementType.
insertText(offset, text)	Text	Inserts the specified text at the given character offset.

isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
isBold()	Boolean	Retrieves the bold setting.
isBold(offset)	Boolean	Retrieves the bold setting at the specified character offset.
isItalic()	Boolean	Retrieves the italic setting.
isItalic(offset)	Boolean	Retrieves the italic setting at the specified character offset.
isStrikethrough()	Boolean	Retrieves the strikethrough setting.
isStrikethrough(offset)	Boolean	Retrieves the strikethrough setting at the specified character offset.
isUnderline()	Boolean	Retrieves the underline setting.
isUnderline(offset)	Boolean	Retrieves the underline setting at the specified character offset.
merge()	Text	Merges the element with the preceding sibling of the same type.
removeFromParent()	Text	Removes the element from its parent.
replaceText(searchPattern, replacement)	Element	Replaces all occurrences of a given text pattern with a given replacement string, using regular expressions.
setAttributes(startOffset, endOffsetInclusive, attributes)	Text	Applies the specified attributes to the given character range.
setAttributes(attributes)	Text	Sets the element's attributes.
setBackgroundColor(startOffset, endOffsetInclusive, color)	Text	Sets the background color for the specified character range.
setBackgroundColor(color)	Text	Sets the background color.
setBold(bold)	Text	Sets the bold setting.
setBold(startOffset, endOffsetInclusive, bold)	Text	Sets the bold setting for the specified character range.
setFontFamily(family)	Text	Sets the font family.
setFontFamily(startOffset, endOffsetInclusive, family)	Text	Sets the font family for the specified character range.
setFontSize(size)	Text	Sets the font size.
setFontSize(startOffset, endOffsetInclusive, size)	Text	Sets the font size for the specified character range.
setForegroundColor(startOffset, endOffsetInclusive, color)	Text	Sets the foreground color for the specified character range.
setForegroundColor(color)	Text	Sets the foreground color.
setItalic(italic)	Text	Sets the italic setting.
setItalic(startOffset, endOffsetInclusive, italic)	Text	Sets the italic setting for the specified character range.
setLinkUrl(startOffset, endOffsetInclusive, url)	Text	Sets the link url for the specified character range.
setLinkUrl(url)	Text	Sets the link url.
setStrikethrough(strikethrough)	Text	Sets the strikethrough setting.
setStrikethrough(startOffset, endOffsetInclusive, strikethrough)	Text	Sets the strikethrough setting for the specified character range.

setText(text) Text Sets the text contents.
 setTextAlignment(startOffset, endOffsetInclusive, textAlignment) Text Sets the text alignment for a given character range.
 setTextAlignment(textAlignment) Text Sets the text alignment.
 setUnderline(underline) Text Sets the underline setting.
 setUnderline(startOffset, endOffsetInclusive, underline) Text Sets the underline setting for the specified character range.
 Class TextAlignment

Properties

Property	Type	Description
NORMAL	Enum	The normal text alignment.
SUPERSCRIFT	Enum	The superscript text alignment.
SUBSCRIPT	Enum	The subscript text alignment.

Class UnsupportedElement

Methods

Method	Return type	Brief description
copy()	UnsupportedElement	Returns a detached, deep copy of the current element.
getAttributes()	Object	Retrieves the element's attributes.
getNextSibling()	Element	Retrieves the element's next sibling element.
getParent()	ContainerElement	Retrieves the element's parent element.
getPreviousSibling()	Element	Retrieves the element's previous sibling element.
getType()	ElementType	Retrieves the element's ElementType.
isAtDocumentEnd()	Boolean	Determines whether the element is at the end of the Document.
merge()	UnsupportedElement	Merges the element with the preceding sibling of the same type.
removeFromParent()	UnsupportedElement	Removes the element from its parent.
setAttributes(attributes)	UnsupportedElement	Sets the element's attributes.

Class VerticalAlignment

Properties

Property	Type	Description
BOTTOM	Enum	The bottom-alignment option.
CENTER	Enum	The center-alignment option.
TOP	Enum	The top-alignment option.

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