

Using PxPlus Word Object

PxPlus 2017 (v14) & PxPlus 2018 (v15)

PxPlus Word Object

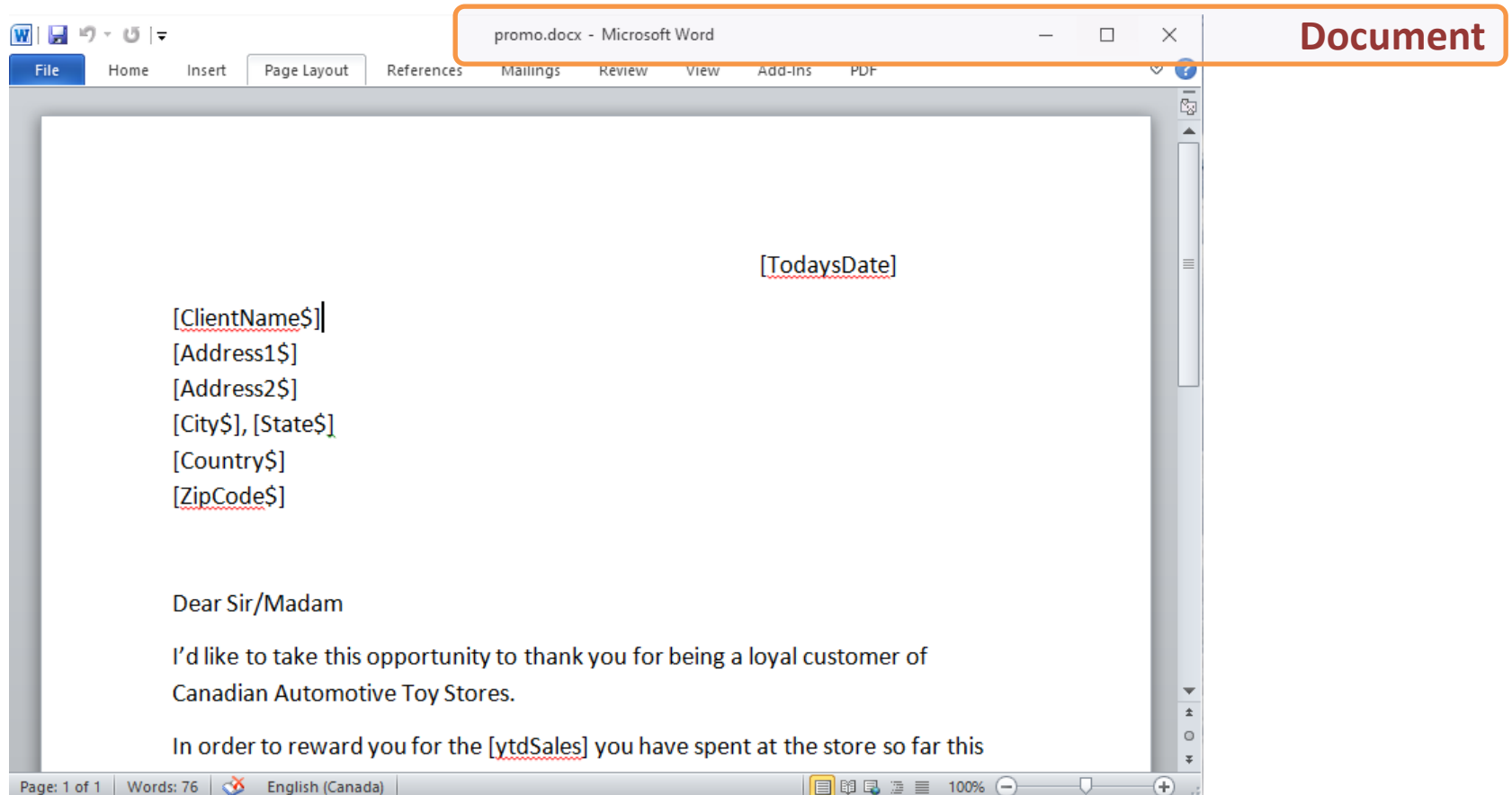
*obj/word.pvc

- Only the concept of 'Documents'
- Instantiation

```
w=new ("*obj/word")
```

where 'w' is the object identifier and could be any numeric variable

Word Screen



Application Properties

- **WORD** (*Read Only*)
 - Handle to the Word Application object
- **WCONSTANTS** (*Read Only*)
 - Handle to the Word Named Constants object
- **ERROR** (*Read Only*)
 - Handle to the Word Error object
- **VISIBLE**
 - Allows Word application to be made visible
 - Defaults to Off (0)
- **DISPLAY_ALERTS**
 - Allows suppression of Word message boxes (e.g. saving changes on close)
 - Defaults to Off (0)

Document Properties

- **ACTIVE_DOCUMENT** (*Read Only*)
 - Handle to the active document object
 - `w'Active_Document = w'WORD'ActiveDocument`
- **DOCUMENTS_COUNT** (*Read Only*)
 - Number of documents open
 - `w'Documents_Count = w'WORD'DOCUMENTS'Count`


Document Methods

Arguments in
blue italics
are optional

- CreateDocument(path\$)
 - No overwrite_flag argument – always replaces
 - OpenDocument(path\$)
 - SetDocument(document or document_name\$)
 - SaveDocument(*document or document_name\$*)
 - SaveDocuments()
 - SaveAsDocument(document_path\$, *document or document_name\$*)
 - PrintDocument(*document or document_name\$*)
 - CloseDocument(*document or document_name\$*)
 - CloseDocuments()
- 'document' 1 is always the **last** document opened. All other documents move up one index higher

Note:

SaveAsDocument() Method

- SaveAsDocument(document_path\$, *document or document_name\$*)
- Enhanced for PxPlus 2018 
- Allows a document or a document_name\$ to be specified (rather than always saving the current document)
- Saves the document with the file type specified in the document_path\$ variable
 - Defaults to a Word Document file type (.docx)
 - Also supports the file types on the following slide

SaveAsDocument – File Extensions

Extension	Description	Extension	Description
.docx	Word Document (default)	.xps	XPS Document
.docm	Word Macro-Enabled Document	.mht, .mhtml	Single File Web Page
.doc	Word 97-2003 Document	.htm, .html	Web Page
.dotx	Word Template	.rtf	Rich Text Format
.dotm	Word Macro-Enabled Template	.txt	Plain Text
.dot	Word 97-2003 Template	.xml	Word XML Document
.pdf	PDF	.odt	OpenDocument Text

Find Methods

- Find(find\$, *document or document_name\$, instance*)
 - To specify *instance* argument for the active document – must pass 0 for *document* or null for *document_name\$*
- FindInsert(find\$, insert\$, *document or document_name\$, instance*)
- FindReplace(find\$, replace\$, *document or document_name\$, instance*)
- FindReplaceAll(find\$, replace\$, *document or document_name\$ or "All"*)

Properties related to FIND methods

- **CASE_SENSITIVE_SEARCH**
 - Defaults to '0' for case insensitive searches
 - Set to '1' for case sensitive searches
- **INSERT_BEFORE**
 - Defaults to '0' to insert text after position located
 - Set to '1' to insert text before position located
- **SEARCH_FORWARD**
 - Defaults to '1' to search from start to end
 - Set to '0' to search from the end of the document

Format Methods

- FindSetColor(find\$, color_index or color\$, *document or document_name\$, instance*)
 - Word color_index is an integer value from 1 to 56
 - color\$ is one of 16 basic PxPlus named colors such as "blue" or "dark yellow"
 - RGB colors not yet supported
- FindSetFont(find\$, font\$, *document or document_name\$, instance*)
 - font\$ is comma separated "name\$,size\$,style\$"
 - e.g. "Tahoma" or "Tahoma,9,Italics"

Word Constants and Error Objects

- If required, Word Named Constants may be accessed via the **WCONSTANTS** property

```
w' WCONSTANTS' wdColorBrightGreen (65280)
```

```
w' WCONSTANTS' wdAlignPageNumberCenter (1)
```

- Checking the **ERROR'Description\$** property may give more information if a method fails

Word Demo

[TodaysDate]

[ClientName\$]
[Address1\$]
[Address2\$]
[City\$], [State\$]
[Country\$]
[ZipCode\$]

Dear Sir/Madam:

I would like to take this opportunity to thank you for being a loyal customer of Canadian Automotive Toy Stores.

To reward you for the [ytdSales] you have spent at the store so far this year, we are enclosing a 25% off coupon for use anytime during the rest of [YearDate].

Enjoy your toy shopping!

Sincerely,

S. Manager

Sr. Sales Manager, Canadian Automotive Toy Stores

- Replace given placeholders in a template document with variable data from an application data file

Word Demo Program

1. Open 'client.dat' data file
2. Instantiate Word object
3. Select all clients with YTD sales over \$10,000
 - Open Document promo.docx
 - Locate client related defined placeholders and replace them with client specific data
 - Populate date placeholders
 - Format selected text
 - Save as Word document and PDFs
 - Close the document
4. Drop Word object and close data file

Word Demo Program Results

- 5 letters created in the output directory with personalized information
- 5 PDF documents created

March 15, 2018

Wise Junk Removal
2329 Golden Treasure Private
P.O. Box 38
Sterling, NU
Canada
X00 5M9

Dear Sir/Madam

I'd like to take this opportunity to thank you for being a loyal customer of Canadian Automotive Toy Stores.

In order to reward you for the \$11,809.10 you have spent at the store so far this year, we are enclosing a **25% off coupon** for use anytime during the rest of 2018.

Enjoy your toy shopping!

Sincerely,

S Manager
Sr. Sales Manager, Canadian Automotive Toy Stores

Running on WindX

- Probably want to run locally on the workstation
- Instantiation

```
x=new (" [lcl] *obj/excel")  
      or  
w=new (" [lcl] *obj/word")
```

- Path\$ arguments cannot include [lcl] or [wdx] tags

Review

- Created flexible methods for the most common functionality from Microsoft's objects
- Simplify and speed development
- Experienced users can still access all Microsoft functionality via properties exposing handles to the MS objects, errors and constants

Additional Resources

The help link(s) below refer to the current on-line help pages. The functionality may have been further updated since the PxPlus 2018 (version 15) release.

- [PxPlus Word Object](#)
- [PxPlus Excel Object](#)