

sgNeoPPTX

PowerPoint Import & Viewer Plugin

USER HELP & ACTION REFERENCE

Import PowerPoint presentations into VisualNEO Win, display PPTX files at runtime, navigate slides, and convert slides into editable native VisualNEO Win pages.

Plugin: sgNeoPPTXPlugin

Publisher: Saptarshi Ghosh / LIS Software Lab

Platform: VisualNEO Win classic plugin / Win32

Primary capability: PPTX viewing plus native VisualNEO publication generation.

Important: The native import operation creates a VisualNEO **.pub** containing native VisualNEO objects. The generated publication is designed to run without Microsoft PowerPoint.

1. Overview

sgNeoPPTX provides two complementary workflows:

- **Runtime Viewer:** attach a PPTX presentation to a VisualNEO Rectangle and navigate its slides while the publication is running.
- **Native Import:** convert PPTX slides into VisualNEO pages with editable native objects such as text, pictures, rectangles, round rectangles, ellipses and lines.

The importer includes support for theme fonts and colors, rich text runs, paragraph alignment and indentation, image cropping, image flips/rotation, and group-transform handling.

2. Action Summary

Action	Parameters	Purpose
sgPPTXAttach	Rectangle, PPTX file, slide-count variable	Attach and display a PPTX viewer.
sgPPTXDetach	Rectangle	Remove the viewer from a Rectangle.
sgPPTXGotoSlide	Rectangle, slide number	Display a selected 1-based slide.
sgPPTXNextSlide	Rectangle	Advance to the next slide.
sgPPTXPrevSlide	Rectangle	Return to the previous slide.
sgPPTXImport	PPTX file, output .pub	Create a native VisualNEO publication from PPTX.

1. sgPPTXAttach

Attach a PowerPoint (.pptx) slide viewer to an existing VisualNEO Rectangle object.

#	Parameter	Type	Description
1	RectangleName	Text / object name	Name of the existing Rectangle that will host the viewer.
2	PPTXFileName	Text / filename	PowerPoint .pptx file to load. A variable/expression may be supplied.
3	VariableName	VisualNEO variable	Variable receiving the number of slides in the loaded presentation.

Typical design-time dialog: select the host Rectangle, browse for the PPTX file, and select the variable that will receive the slide count.

Example:

```
sgPPTXAttach "[PPTXViewer]" "C:\Presentations\Training.pptx" "[SlideCount]"
```

After execution, **[SlideCount]** contains the number of slides. The plugin also publishes runtime information such as **[PPTXCurrentSlide]**, **[PPTXSlideCount]**, and **[PPTXShapeCount]**.

2. sgPPTXDetach

Remove a PowerPoint viewer previously attached to a Rectangle.

#	Parameter	Type	Description
1	RectangleName	Text / object name	Rectangle containing the PPTX viewer to remove.

Use this when a presentation is no longer required or before attaching a different presentation to the same Rectangle.

```
sgPPTXDetach "[PPTXViewer]"
```

3. sgPPTXGotoSlide

Display a specific slide in an attached PPTX viewer. Slide numbering is 1-based.

#	Parameter	Type	Description
1	RectangleName	Text / object name	Rectangle containing the attached PPTX viewer.
2	SlideNumber	Numeric	Slide number to display; 1 means the first slide.

```
sgPPTXGotoSlide "[PPTXViewer]" "5"
```

A variable/expression can be used for the slide number:

```
sgPPTXGotoSlide "[PPTXViewer]" "[RequestedSlide]"
```

4. sgPPTXNextSlide

Advance the attached PPTX viewer to the next slide.

#	Parameter	Type	Description
1	RectangleName	Text / object name	Rectangle containing the attached PPTX viewer.

```
sgPPTXNextSlide "[PPTXViewer]"
```

The viewer's navigation panel also provides a Next button. At the final slide, navigation remains within the valid slide range.

5. sgPPTXPrevSlide

Move the attached PPTX viewer back to the previous slide.

#	Parameter	Type	Description
1	RectangleName	Text / object name	Rectangle containing the attached PPTX viewer.

```
sgPPTXPrevSlide "[PPTXViewer]"
```

At the first slide, navigation remains within the valid slide range.

6. sgPPTXImport

Convert a PowerPoint presentation into a native VisualNEO Win publication (.pub).

#	Parameter	Type	Description
1	PPTXFile	Filename	Source PowerPoint presentation (.pptx).
2	OutputPub	Filename	Destination VisualNEO Win publication (.pub).

Basic example:

```
sgPPTXImport "C:\Presentations\AnnualReport.pptx" "C:\Projects\AnnualReport.pub"
```

The importer creates one VisualNEO page for each PPTX slide and maps supported PPTX content to native VisualNEO objects. Media files are copied into the publication's media area and the generated publication is configured for external-file copying.

On successful import, the plugin sets status variables including:

- **[PPTXImportedPub]** — generated publication path.
- **[PPTXImportedSlides]** — number of imported slides.
- **[PPTXImportedObjects]** — number of generated native objects.

In the Auto-Open build, the generated .pub is also passed to the Windows file association so VisualNEO Win can open it automatically when a .pub association is configured.

Example using a project folder:

```
SetVar "[PPTXFile]" "C:\Projects\Course.pptx"  
sgPPTXImport "[PPTXFile]" "C:\Projects\Course.pub"
```

The action editor can also choose the output location using the normal VisualNEO file-selection interface.

3. Recommended Runtime Navigation Pattern

A simple presentation player can be built with three buttons and one Rectangle.

```
sgPPTXAttach "[Viewer]" "C:\Presentations\Lecture.pptx" "[Slides]"  
  
; Next button  
sgPPTXNextSlide "[Viewer]"  
  
; Previous button  
sgPPTXPrevSlide "[Viewer]"  
  
; Jump button  
sgPPTXGotoSlide "[Viewer]" "[JumpTo]"
```

The plugin's built-in navigation panel provides Prev, slide status, a page-number entry box, Go, and Next.

4. Native Import Workflow

Step	Operation
1	Choose the source .pptx file.
2	Choose the destination .pub file.

Step	Operation
3	Run sgPPTXImport.
4	The importer creates VisualNEO pages corresponding to PPTX slides.
5	Supported text, images and shapes become native/editable VisualNEO objects.
6	Open the generated .pub in VisualNEO Win and continue editing.
7	Compile the publication as a normal VisualNEO application.

5. Examples

Example A — Display a presentation and navigate it

```
sgPPTXAttach "[Viewer]" "[PresentationFile]" "[SlideCount]"

; First slide
sgPPTXGotoSlide "[Viewer]" "1"

; Next
sgPPTXNextSlide "[Viewer]"
```

Example B — User chooses a slide number

```
sgPPTXGotoSlide "[Viewer]" "[SlideNumber]"
```

Example C — Convert PPTX to an editable publication

```
sgPPTXImport "C:\Training\Module1.pptx" "C:\Training\Module1.pub"
```

Example D — Import and then use the generated path

```
sgPPTXImport "[SourcePPTX]" "[TargetPUB]"
AlertBox "Import Complete" "[PPTXImportedPub]"
```

6. Supported Import Features

Feature	Support / behavior
Slides	Each PPTX slide is converted to a VisualNEO page.
Text	Text is imported as native VisualNEO text objects where supported.
Rich text	Run-level font, size, bold, italic, underline and color information is processed.
Theme	Theme major/minor fonts and scheme colors/transforms are processed.
Paragraphs	Alignment, indentation and bullet information are processed.
Images	Images become editable VisualNEO Picture objects; cropping is physically applied where supported.
Image transforms	Image flips and rotation are handled during import while retaining Picture editability.
Shapes	Common rectangles, rounded rectangles, ellipses and lines are mapped to native objects.
Groups	Group transforms such as rotation are flattened; group path information is retained in object naming.
Media	Supported video/audio media can be mapped to VisualNEO media objects; exact behavior depends on the PPTX content.

7. Variables and Status Information

The viewer can return the slide count through the variable supplied to **sgPPTXAttach**. During runtime the plugin also exposes useful presentation status variables:

Variable	Meaning
[PPTXCurrentSlide]	Current slide number.
[PPTXSlideCount]	Total number of slides.
[PPTXShapeCount]	Number of rendered/imported objects reported by the viewer.
[PPTXImportedPub]	Path of the most recently generated native .pub.
[PPTXImportedSlides]	Number of slides imported by sgPPTXImport.
[PPTXImportedObjects]	Number of native objects generated by the importer.

8. Design-Time Action Editors

- **sgPPTXAttach**: provides a custom properties dialog with Rectangle selection, PPTX Browse, and VisualNEO Variable selection.
- **sgPPTXDetach / Goto / Next / Prev**: use the Rectangle selector where applicable.
- **sgPPTXImport**: prompts for the source PPTX and destination .pub.

For the Attach action, the file field remains editable so an author can enter a VisualNEO variable/expression manually when required.

9. Troubleshooting

Problem	Check
Viewer does not appear	Confirm that the Rectangle exists and that the PPTX path is valid.
Slide number does not change	Use 1-based slide numbering and confirm the requested number is within the presentation range.

Problem	Check
Import fails	Confirm that the source .pptx is accessible and the destination folder is writable.
Images/media are missing	Check the generated publication's media files and the external-file-copy deployment settings.
Auto-open does not occur	The .pub is still generated; check that Windows has an association for .pub files/VisualNEO Win.
Unexpected formatting	PPTX contains features outside the native mapping supported by the importer; inspect the generated native obj

10. Quick Reference

```

sgPPTXAttach "[Viewer]" "Presentation.pptx" "[SlideCount]"
sgPPTXDetach "[Viewer]"
sgPPTXGotoSlide "[Viewer]" "3"
sgPPTXNextSlide "[Viewer]"
sgPPTXPrevSlide "[Viewer]"
sgPPTXImport "Presentation.pptx" "Presentation.pub"

```

This help file describes the six actions registered by the current sgNeoPPTX classic plugin build and their documented parameters and examples.