

APACHE POI PPT - CLASSES AND METHODS

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In this chapter, we will learn about a few classes and methods under Apache POI API that are crucial to work on PPT files using Java programs.

Presentation

To create and manage a presentation, you have a class called XMLSlideShow in the package *org.apache.poi.xslf.usermodel*. Given below are some important methods and a constructor of this class.

Class : XMLSlideShow

Package : org.apache.poi.xslf.usermodel

S.No	Constructor and Description
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|---|--|
| 1 | XMLSlideShow <i>java.io.InputStream inputStream</i>
You can instantiate this class by passing an inputstream class object to it. |
|---|--|

S.No	Methods and Description
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|---|--|
| 1 | int addPicture <i>byte[] pictureData, int format</i>
Using this method, you can add a picture to a presentation. |
| 2 | XSLFSlide createSlide
Creates a blank slide in a presentation. |
| 3 | XSLFSlide createSlide <i>XSLFSlideLayout layout</i>
Creates a slide with a given slide layout. |
| 4 | java.util.List <XSLFPictureData> getAllPictures
Returns an array of all the pictures in a presentation. |
| 5 | java.awt.Dimension getPageSize
Using this method, you can get to know the current page size. |
| 6 | XSLFSlideMaster[] getSlideMasters
Returns the array of all the slides in a presentation. |
| 7 | XSLFSlide[] getSlides |

Returns all the slides in a presentation.

8

XSLFSlide removeSlide*int index*

Using this method, you can remove a slide from a presentation.

9

void setPageSize*java.awt.Dimension pgSize*

Using this method, you can reset the page size.

10

void setSlideOrder*XSLFSlide slide, int newIndex*

Using this method, you can reorder the slides.

Slide

To create and manage a slide in a presentation, the methods of the **XSLFSlide** class are used. Some important methods of this class are mentioned below.

Class : XSLFSlide

Package : org.apache.poi.xslf.usermodel

S.No	Methods and Description
1	XSLFBackground getBackground Returns the XSLFBackground object which can be used to retrieve details like color and anchor of the background of the slide. You can also draw shapes in the slide using this object.
2	XSLFSlideLayout getSlideLayout Provides access to the XSLFSlideLayout object of the current slide.
3	XSLFSlideMaster getSlideMaster Provides access to the slide master of the current slide.
4	XSLFTheme getTheme Returns the XSLFTheme object of the current slide.
5	java.lang.String getTitle Returns the title of the current slide.
6	XSLFSlide importContent <i>XSLFSheetsrc</i>

Copies the contents of another slide to this slide.

Slide Master

It is the component of the presentation having different slide layouts. The **XSLFSlideMaster** class gives you access to it. Mentioned below are some important methods of this class.

Class : XSLFSlideMaster

Package : org.apache.poi.xslf.usermodel

S.No	Description
1	XSLFBackground getBackground Returns the common background of the slide master.
2	XSLFSlideLayout getLayoutSlideLayouttype Returns the XSLFSlideLayout object.
3	XSLFSlideLayout[] getSlideLayouts Returns all the slide layouts in this slide master.

Slide Layout

The POI library has a class called **XSLFSlideLayout**, using which you can manage the layouts of a slide.

Class : XSLFSlideLayout

Package : org.apache.poi.xslf.usermodel

S.No	Method and Description
1	void copyLayoutXSLFSlideSlide This method will copy the placeholders from this layout to the given slide.

Text Paragraph

You can write content to the slide using **XSLFTextParagraph** class. Below mentioned are some important methods of this class.

Class : XSLFTextParagraph

Package : org.apache.poi.xslf.usermodel

S.No	Methods and Description
1	

XSLFTextRun addLineBreak

Inserts a line break in a paragraph.

2

XSLFTextRun addNewTextRun

Adds a new run of text in a paragraph.

3

void setBulletAutoNumberListAutoNumberscheme, intstartAt

Applies automatic numbered bullet points to the paragraph.

4

void setIndentdoublevalue

Sets the indent to the text in the paragraph.

5

void setLeftMargindoublevalue

This method is used to add the left margin of the paragraph.

6

void setLineSpacingdoublelinespacing

This method is used to set line spacing in the paragraph.

7

void setTextAlignTextAlignalign

This method is used to set alignment that is to be set to the paragraph.

Text Run

This is the lowest level of text separation within a text body. You have **XSLFTextRun** class to manage the text run of a paragraph. Below mentioned are some important methods of this class.

Class : XSLFTextParagraph

Package : org.apache.poi.xslf.usermodel

S.No	Methods and Description
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1

XSLFHyperlink createHyperlink

Creates a hyperlink in the presentation.

2

XSLFHyperlink getHyperlink

This method is used to get the hyperlink.

3

java.lang.String getText

Returns the value of this Text node as a Java string.

4

void setBold*booleanbold*

This method is used to set the text in Bold.

5

void setCharacterSpacing*doublespc*

Sets the spacing between characters within a text run.

6

void setFontColor*java. awt. Colorcolor*

Sets the font color of the text.

7

void setFontSize*doublefontSize*

Sets the font size of the text.

8

void setItalic*booleanitalic*

This method is used to make the paragraph italicized.

9

void setStrikethrough*booleanstrike*

This method is used to format a run of text as strikethrough text.

10

void setSubscript*booleanflag*

This method is used to format the text as subscript.

11

void setSuperscript*booleanflag*

This method is used to format the text in this run as superscript.

12

void setText*java. lang. Stringtext*

This method is used to set the text in a run.

13

void setUnderline*booleanunderline*

This method is used to underline the text in a text run.

Text shape

In PPT, we have shapes that can hold text within them. We can manage these using **XSLFTextShape** class. Mentioned below are some important methods of this class.

Class : XSLFTextShape

Package : org.apache.poi.xslf.usermodel

S.No	Methods and Description
1	void setPlaceholder <i>Placeholderplaceholder</i> Using this method, you can choose a place holder.
2	Placeholder getTextType Returns the type of the current placeholder.
3	void clearText Clears the text area of the current text shape.
4	XSLFTextParagraph addNewTextParagraph Adds a new paragraph run to a shape.
5	void drawContent <i>java. awt. Graphics2Dgraphics</i> This method allows you to draw any content on the slide.

HyperLink

The POI library has a class called **XSLFHyperlink** using which you can create a hyperlink in the presentation. Mentioned below are some important methods of this class.

Class : XSLFHyperlink

Package : org.apache.poi.xslf.usermodel

S.No	Methods and Description
1	java.net.URI getTargetURL Returns the URL existing in a slide of the presentation.
2	void setAddress <i>java. lang. Stringaddress</i> This method is used to set address to a URL.
3	void setAddress <i>XSLFSlideslide</i> Sets address to the URL present in a slide of the presentation.