

UML Stereotype Tutorial - Working with Styles

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You can extend a model element from a stereotype to give it specific identify and specify its domain specific properties. Moreover, you can <u>define formatting properties</u> to stereotype, such as fill color and border style, to make model elements that extend the stereotype follow. In this tutorial, we will make use of a simple <u>class diagram</u> to show how to format a stereotype called *API*, and how to format an API class by applying stereotype.

- 1. Download <u>Simple-Shape-Generator.vpp</u>. You can also find this file at the bottom of this tutorial.
- 2. Open the downloaded .vpp file in Visual Paradigm. To open a project, select **Project > Open** from the application toolbar. You can see the class diagram below.



 We want to model the fact that class Shape is an API class. We can do this by defining and applying an API stereotype. Select Windows > Configuration > Configure Stereotypes... from the toolbar. 4. In the **Configure Stereotypes** window, expand the tree node Class, and select Class. Click **Add...** at the bottom.

•	Configure Stereo	types	×
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Scope: Workspace 🗸		Number of stereotypes shown in popup menu: 10 💊	
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Attribute	Control		
Binding	Mathematical Constants		
Class	CORBAException		
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		6	
Import Export		OK Cancel Help	

5. In the stereotype specification, enter *API* as name.

6. Here you can see three options in the specification dialog box. They are **Fill**, **Line** and **Font**. By setting them, you can make classes that extend the *API* stereotype share the formatting properties defined. Let's try **Fill** first. Check **Use** for **Fill**. Click on the ... button. Select **gray** as color.

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7. Similar, check **Use** for Line and edit its properties. Select a style of dotted line, set 3 as weight, blue as color.



8. Finally, check **Use** for **Font** and edit its properties. Select a font you like (Comic Sans MS is used in this tutorial), set **bold**, and select **14** as font size, which makes the text bigger than default.

\$	Select Font		×		
Font Name:		Font Style:	Font Size		
Comic Sans MS		Bold	14		
Century Gothic	^	Regular	11 ^		
Chiller		Italic	12		
Colonna MT		Bold	14		
Comic Sans MS		Bold Italic	16		
Consolas			18		
Constantia			20		
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Font Color : Black					
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	_ Aa Bb Cc				
OK Cancel					

- 9. Click **OK** to confirm the changes in Stereotype Specification. Click **OK** in Configure Stereotype dialog box to close it.
- Now, we need to make the class Shape extend the API stereotype. Right-click on the class Shape and select Stereotypes > API from the popup menu.



11. The appearance of class is updated to follow that defined for the stereotype API.





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