
How to draw a Composite Structure Diagram in UML

[Composite structure diagram](#) is a kind of [UML diagram](#) that visualizes the internal structure of a class or collaboration. It is a kind of component diagram mainly used in modeling a system at micro point-of-view.

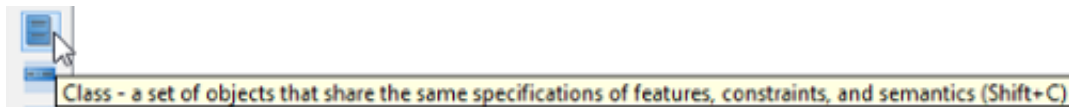
Creating composite structure diagram

Perform the following steps to create a UML composite structure diagram.

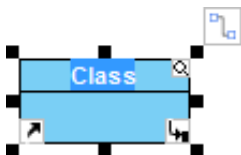
1. Select **Diagram > New** from the application toolbar.
2. In the **New Diagram** window, select **Composite Structure Diagram**.
3. Click **Next**.
4. Enter the diagram name and description. The **Location** field enables you to select a model to store the diagram.
5. Click **OK**.

Creating class

To create a class in composite structure, click **Class** on the diagram toolbar and then click on the diagram.



A class will be created.



Creating part

To create a part inside a class:

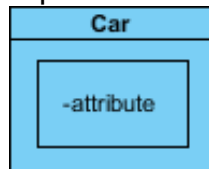
1. Move your mouse pointer over the class.
2. Click on the **Resource Catalog** button.



3. Select **New Part** from Resource Catalog.



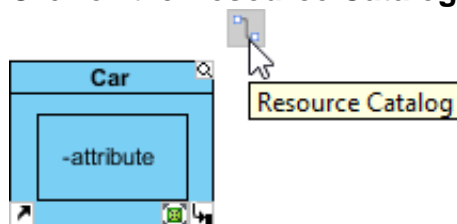
A part is created.



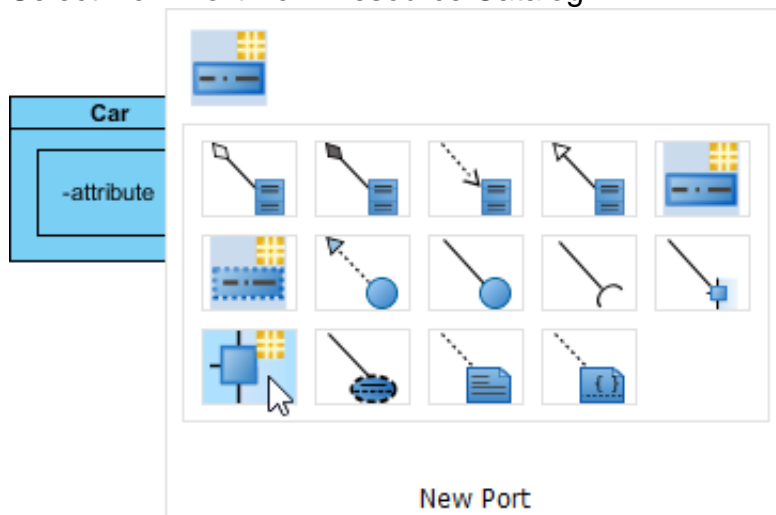
Creating port

To create a port that attaches to a class:

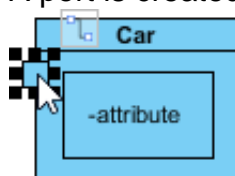
1. Move your mouse pointer over the class.
2. Click on the **Resource Catalog** button.



3. Select **New Port** from Resource Catalog.



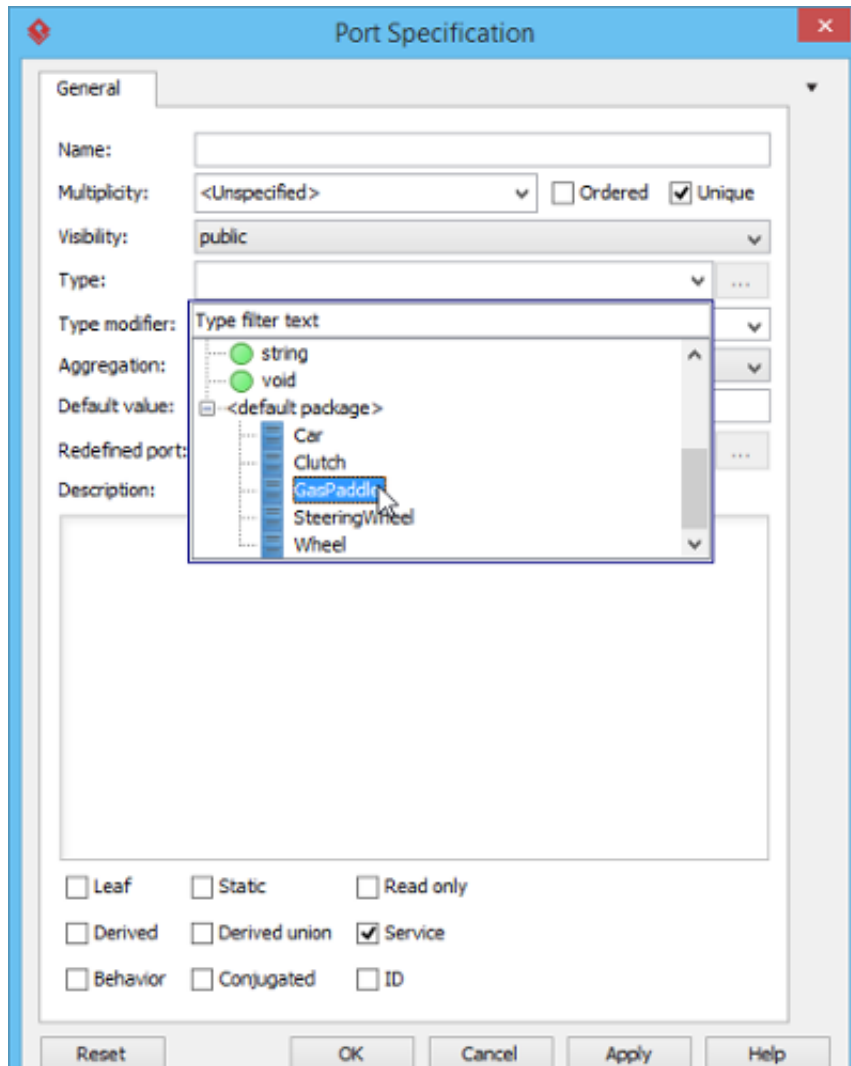
A port is created.



Specifying type of port

Right-click the port and select **Open Specification...** from the pop-up menu. The **Port Specification** window appears.

Click the combo box of **Type** and select a class.



Click **OK** button to apply the changes. Type will be shown on the caption of the port.



: GasPaddle

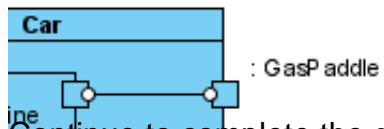
Creating connector

To create connector, click **Connector** on the diagram toolbar.



Connector - specifies a link that enables communication between two or more instances (Q)

Drag from the source shape, move the mouse over the target shape and then release the mouse button to create the connector.



Continue to complete the diagram.

