

# How to create graphic primitives for Process Graphics 2

- create a new C# class library project. Save the solution as „ElementTutorial“.
- Open the project properties
- On the tab „Application“: Change the target framework to 3.5
- On the tab „Signing“: check „sign the assembly“, browse for
- Extract the public strong name signature key from some other graphic primitive assembly. We can get it by using the dotnet strong name tool. More informations here: <https://msdn.microsoft.com/en-us/library/k5b5tt23%28VS.80%29.aspx>  
This is the complete command:  
**„c:\Program Files\Microsoft SDKs\Windows\v6.0A\Bin\sn.exe“ -e „c:\Program Files (x86)\ABB Industrial IT\Operate IT\Process Portal A\bin\GraphicPrimitives\ABB.xA.ProcessGraphics.AspectViewPrimitives.dll“ „PG2Key.snk“**  
This should create an 160 byte small file „PG2Key.snk“.  
Hint: if you copy&paste the command, replace all „ and “. My office program have done something weird with this characters.
- Open the C# project properties
- On the tab „Application“: Change the target framework to 3.5
- On the tab „Signing“: check „Sign the assembly“, browse for the PG2Key.snk, check „Delay Sign only“ too.
- Implement the Classfiles
- Build the solution
- Copy the created DLL to **c:\Program Files (x86)\ABB Industrial IT\Operate IT\Process Portal A\bin\GraphicPrimitives\**
- Mark the DLL for strong name validation bypassing. Another job for the SN-Tool:  
**„c:\Program Files\Microsoft SDKs\Windows\v6.0A\Bin\sn.exe“ -Vr „c:\Program Files (x86)\ABB Industrial IT\Operate IT\Process Portal A\bin\GraphicPrimitives\ElementTutorial.dll“**  
(Change the dll name if you use an other one)  
Hint: if you copy&paste the command, replace all „ and “.
- Open PG2 graphics editor and show how it works.