

Wrap a Java class in a COM object

Use the Microsoft *javareg* utility to register a java class as a COM server. Once registered, the Java class will be visible from all languages that can deal with COM objects. I am giving here some examples in VbScript, JScript, ASP and Powerbuilder.

NOTE: The class can be compiled with any JDK but the actual execution will use the Microsoft JVM installed on the system.

The *javareg* utility is part of the Microsoft Java SDK which can be freely downloaded from the [Microsoft Web site](#).

First a simple Java class.

```
[JavaSays.java]

package JavaCom;
public class JavaSays {
    public String Hello() {
        return "Hello world" ;
    }
    public String Say(String what) {
        return what ;
    }
}
```

Then this BAT file is executed to register our class.

```
javareg /register /class:JavaCom.JavaSays /progid:JavaCom.JavaSays
md c:\Windows\Java\TrustLib\JavaCom
copy JavaSays.class c:\Windows\Java\TrustLib\JavaCom
```

That's it. The system now has a COM object called JavaCom.JavaSays installed.

VbScript and JScript are useful scripting tools. They are now part of a regular Windows installation (or IE). If your Windows installation is too old, you can download the Windows Scripting Host from the [Microsoft Web site](#).

```
[VbScript TestJavaCom.vbs]

' VBSCRIPT connect to a Java COM object
Dim objJava
Set objJava = WScript.CreateObject("JavaCom.JavaSays")

strFromJava = objJava.Hello
MsgBox strFromJava, _
    0,
    "JAVA COM OUTPUT"

strFromJava = objJava.Say("Displayed by VbScript via a Java object")
MsgBox strFromJava, _
    0,
    "JAVA COM OUTPUT"

[JScript TestJavaCom.js]

// JSCRIPT connect to a Java COM object
var objJava = WScript.CreateObject("JavaCom.JavaSays")
var WSHShell = WScript.CreateObject("WScript.Shell");

strFromJava = objJava.Hello()
WSHShell.Popup(strFromJava,
    0,
    "JAVA COM OUTPUT",
    0 );

strFromJava = objJava.Say("Displayed by JScript via a Java object")
WSHShell.Popup(strFromJava,
    0,
```

```
"JAVA COM OUTPUT",  
0 );
```

[ASP TestJavaCom.asp]

```
<%  
    Set objJava = Server.CreateObject("JavaCom.JavaSays")  
%>  
<BR>  
test 1 : <% =objJava.Hello() %><BR>  
test 2 : <% =objJava.Say("From ASP via a Java Object") %>
```

[PowerBuilder]

```
OLEObject objJava  
string strFromjava  
  
objJava = CREATE OLEObject  
objJava.ConnectToNewObject("JavaCom.JavaSays")  
  
strFromJava = objJava.Hello()  
MessageBox("From PB via JavaCom", strFromJava)  
  
strFromJava = objJava.Say("Displayed by PB via a Java object")  
MessageBox("From PB via JavaCom", strFromJava)  
  
DESTROY objJava
```

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