Groovy script tool API

'eval' Method

eval(String script)

This method will evaluate a Groovy code from a string and return the result.

```
$groovy.eval("println 'Hello World!'")
```

eval(String script, String bindingName, Object bindingObject)

This method will evaluate a Groovy code with a single binding object and specified binding name. The code will be evaluated from a string. The binding name will be used as the name for this object.

```
#foreach ($c in $Class)
$groovy.eval("println classname", "classname", $c.name)
#end
```

eval(String script, Map bindingMap)

This method will evaluate a Groovy code with a set of binding arguments (a name and an object). The code will be evaluated from a string. The binding map consists of key-value pairs for the binding name and the binding object.

```
#set ($dict = $map.createHashMap())
#set ($void = $dict.put("first", "foo"))
#set ($void = $dict.put("last", "bar"))
$groovy.eval("println first + last", $dict)
```

Or

```
$groovy.eval("println first + ' ' + last", {"first":"foo", "last":"bar"})
```

The second code contains curly brackets; '{' and '}' characters, which are not allowed to be used in any *RTF* template. For the *RTF* template, use the first code instead.

'execute' method

execute(String filename)

This method will execute a Groovy file. The 'filename' parameter refers to a name of the Groovy file, an absolute path to the Groovy file, or a relative path starting from the template to the Groovy file.

```
$groovy.execute("filename.groovy")
```

If the Groovy file contains Groovy functions, you can recall the functions by using 'eval()' methods.

```
$groovy.execute('filename.groovy')
$groovy.eval("new groovy().functionname()")
```

execute(String filename, String bindingName, Object bindingObject)

This method will execute a Groovy file with a single binding object and specified binding name. The 'filename' parameter refers to a name of the Groovy file, an absolute path to the Groovy file, or a relative path starting from the template to the Groovy file. The binding name will be used as the name for this object.

File filename.groovy

```
"Class name is " + $c.name
```

The template code

```
#foreach ($c in $Class)
$groovy.execute("filename.groovy", 'c', $c)
#end
```

execute(String filename, Map bindingMap)

This method will execute a Groovy file with a set of binding arguments (a name and an object). The 'filename' parameter refers to a name of the Groovy file, an absolute path to the Groovy file, or a relative path starting from the template to the Groovy file. The binding map consists of key-value pairs for the binding name and the binding object.

File filename.groovy

```
first + " " + last
```

The template code

```
#set ($dict = $map.createHashMap())
#set ($void = $dict.put("first", "foo"))
#set ($void = $dict.put("last", "bar"))
$groovy.execute("filename.groovy", $dict)
```



- *Absolute Path*: If the 'filename' is provided with an absolute path, Groovy Tool will read the Groovy file from an absolute location such as **$groovy.execute('***c:/mycode/readclass.groovy***')**.
- *Relative Path*: If the 'filename' is provided with a relative path, Groovy Tool will read the template from a relative location. This relative location starts from the current directory in which the template is located such as **$groovy.execute('***readclass.groovy***')**.