

Adding New Scripting Variables

As of version 2.0.14 of Sling Scripting Core, Sling Scripting allows bundles to contribute objects to the variables available to scripts by exposing OSGi services.

This can be done by implementing either `java.util.Map` or `org.apache.sling.scripting.api.BindingsValuesProvider`. Implement `org.apache.sling.scripting.api.BindingsValuesProvider` if you need access to the current script variables.

In either case, implementations are able to add one or more name/value pairs to the `javax.script.Bindings` object, but they **cannot** overwrite or remove any of the default scripting variables (defined here: [Scripting Variables](#)). These custom bindings can be configured to apply to **any** scripting language or a specific scripting language.

An example of the binding of a custom object using `java.util.Map` can be found in the `extensions.groovy` bundle ([source](#)):

```
import org.apache.sling.commons.json.groovy.JSONGroovyBuilder;

/**
 * BindingsValuesProvider which binds an instance of JSONGroovyBuilder.
 *
 * @scr.component immediate="true" metatype="no"
 * @scr.service
 *
 * @scr.property name="service.description" value="JSONGroovyBuilder BindingsValuesProvider"
 * @scr.property name="service.vendor" value="The Apache Software Foundation"
 *
 * @scr.property name="javax.script.name" value="groovy"
 */
public class JSONGroovyBuilderBindingsValuesProvider extends HashMap<String, Object> {

    public JSONGroovyBuilderBindingsValuesProvider() {
        super();
        put("jsonBuilder", new JSONGroovyBuilder());
    }
}
```

In this example, the `jsonBuilder` key is bound to an instance of `JSONGroovyBuilder` only for Groovy scripts.

An example of the binding of a custom object using `org.apache.sling.scripting.api.BindingsValuesProvider` can be found in the `jr` resource bundle ([source](#)):

```
import javax.jcr.Node;
import javax.script.Bindings;

import org.apache.sling.api.resource.Resource;
import org.apache.sling.scripting.api.BindingsValuesProvider;

/**
 * BindingsValuesProvider for currentNode object.
 *
 * @scr.component immediate="true" metatype="no"
 * @scr.service
 *
 * @scr.property name="service.description" value="CurrentNode BindingsValuesProvider"
 * @scr.property name="service.vendor" value="The Apache Software Foundation"
 *
 * @scr.property name="javax.script.name" value="any"
 */
public class CurrentNodeBindingsValuesProvider implements BindingsValuesProvider {

    /**
     * {@inheritDoc}
     */
    public void addBindings(Bindings bindings) {
        Resource resource = (Resource) bindings.get("resource");
        Node node = resource.adaptTo(Node.class);
        if (node != null) {
            bindings.put("currentNode", node);
        }
    }
}
```