

Tapestry5HowToAddMapBindingPrefix

This page describes how to add a map binding prefix to Tapestry 5.

The map binding prefix allows you to specify a map like this:

```
 ${map:key1=value1,key2=value2} or <t:component t:parameter="map:key1=value1,key2=value2"/>
```

This will create a Map<String, Object> with key1 and key2 as keys and the values of the bindings value1 and value2 as values.

First create the MapBinding:

```
public class MapBinding extends AbstractBinding {  
  
    private final Map<String, Binding> delegates;  
    private final boolean invariant;  
  
    public MapBinding(Map<String, Binding> delegates, boolean invariant) {  
        this.delegates = delegates;  
        this.invariant = invariant;  
    }  
  
    public Object get() {  
        Map<String, Object> values = new HashMap<String, Object>(delegates.size());  
  
        for (Map.Entry<String, Binding> entry : delegates.entrySet()) {  
            values.put(entry.getKey(), entry.getValue().get());  
        }  
  
        return values;  
    }  
  
    public boolean isInvariant() {  
        return invariant;  
    }  
  
    public Class<Map> getBindingType() {  
        return Map.class;  
    }  
}
```

Then create the MapBindingFactory:

```

/**
 * Factory for map bindings. Map bindings parse comma-delimited lists of key=value pairs into {@link Map maps}.
 Keys are
 * always string literals while the values can be any binding expression, for which the default prefix is prop.
 */
public class MapBindingFactory implements BindingFactory {

    private final BindingSource bindingSource;

    public MapBindingFactory(BindingSource source) {
        this.bindingSource = source;
    }

    public Binding newBinding(String description, ComponentResources container, ComponentResources component,
                             String expression, Location location) {
        Map<String, Binding> delegates = new HashMap<String, Binding>();
        String[] entries = expression.split(",");
        boolean invariant = true;

        for (String entry : entries) {
            String[] parts = entry.split("=");
            if (parts.length != 2) throw new RuntimeException(String.format("Entry '%s' is malformed", entry));

            String name = parts[0];
            String value = parts[1];

            Binding binding = bindingSource.newBinding(description, container, component,
                BindingConstants.PROP, value, location);
            invariant = invariant && binding.isInvariant();
            delegates.put(name, binding);
        }
        return new MapBinding(delegates, invariant);
    }
}

```

And then contribute it to the BindingSource configuration:

```

public static void contributeBindingSource(MappedConfiguration<String, BindingFactory> configuration,
                                         BindingSource bindingSource) {
    configuration.add("map", new MapBindingFactory(bindingSource));
}

```

Again, the keys are always string literals and the values themselves can be any binding expression, for which the default binding prefix is prop.

That's all there is to it.