

Schematron QuickFix (update)

on XML Prague

Thursday, 09 February 2017

QuickFix Concept Summary



Extension language of Schematron:

```
<sch:rule context="b">
    <sch:assert test=".//b" sqf:fix="resolveBold"</pre>
        >Recursive bold elements
    <sqf:fix id="resolveBold">
        <sqf:description>
            <sqf:title</pre>
                                                                  Title
                >Change the bold element into text
            </saf:title>
        </sqf:description>
        <sqf:replace match=".//b" select="text()"/>
    </sqf:fix>
</sch:rule>
                                                               Action
```

- Read more on <u>www.schematron-quickfix.com</u>
- Supported by Oxygen since version 17.0

Second Draft - News Summary



- Complete specification
- Generic QuickFixes (Attribute use-for-each)
- New content model of the sqf:fix element
- Multiple descriptions for different languages
- Plans, open issues, ideas
 - RELAX NG schema
 - unparsed-copy mode to avoid resolving entities / default attribute values
 - Localisation by extracting the human readable language into external files (open discussion).

QuickFix Content Model



- In the old Content Model, the sqf:call-fix was useless
- The new Content Model is very lax:

Additional Rules:

- There should not be two descriptions for the same language
- A call-fix inherits the descriptions of the called QF
 - which have a language other than those of the calling QF
 - If there is no other sqf:call-fix or action element in the same QF





```
<sqf:fix id="movePerson">
    <sqf:description>
        <sqf:title>Move this element at the end of the document
        </saf:title>
    </sqf:description>
    <sqf:call-fix ref="moveQuickFix">
        <sqf:with-param name="moveContext" select="."/>
        <sqf:with-param name="moveTo" select="/*"/>
    </saf:call-fix>
</sqf:fix>
<sqf:fix id="moveQuickFix">
    <sqf:param name="moveContext" required="yes"/>
    <sqf:param name="moveTo" required="yes"/>
    <saf:description>
        <sqf:title>Move the element <name path="$moveContext"/>
            into the element <name path="$moveTo"/>.</sqf:title>
    </saf:description>
    <sqf:add match="$moveTo" position="last-child" select="$moveContext"/>
    <sqf:delete match="$moveContext"/>
</sqf:fix>
```



```
<sqf:fix id="movePerson">
    <sqf:call-fix ref="moveQuickFix">
        <sqf:with-param name="moveContext" select="."/>
        <sqf:with-param name="moveTo" select="/*"/>
    </saf:call-fix>
</sqf:fix>
<sqf:fix id="moveQuickFix">
    <sqf:param name="moveContext" required="yes"/>
    <sqf:param name="moveTo" required="yes"/>
    <saf:description>
        <sqf:title>Move the element <name path="$moveContext"/>
            into the element <name path="$moveTo"/>.</sqf:title>
    </saf:description>
    <sqf:add match="$moveTo" position="last-child" select="$moveContext"/>
    <sqf:delete match="$moveContext"/>
</sqf:fix>
```



```
<sqf:fix id="movePerson">
    <sqf:description>
        <sqf:title>Move this element at the end of the document
            and delete its parent.</sqf:title>
    </saf:description>
    <sqf:call-fix ref="moveQuickFix">
        <sqf:with-param name="moveContext" select="."/>
        <sqf:with-param name="moveTo" select="/*"/>
    </saf:call-fix>
    <sqf:delete match="parent::*"/>
</sqf:fix>
<sqf:fix id="moveQuickFix">
    <sqf:param name="moveContext" required="yes"/>
    <sqf:param name="moveTo" required="yes"/>
    <saf:description>
        <sqf:title>Move the element <name path="$moveContext"/>
            into the element <name path="$moveTo"/>.</sqf:title>
    </saf:description>
    <sqf:add match="$moveTo" position="last-child" select="$moveContext"/>
    <sqf:delete match="$moveContext"/>
</sqf:fix>
```



```
<sqf:fix id="movePerson">
    <sqf:description>
        <saf:title>Move the element and the element
            before at the end of the document.</sqf:title>
    </saf:description>
    <sqf:call-fix ref="moveQuickFix">
        <sqf:with-param name="moveContext" select="."/>
        <sqf:with-param name="moveTo" select="/*"/>
    </saf:call-fix>
    <sqf:call-fix ref="moveQuickFix">
        <sqf:with-param name="moveContext" select="preceding-sibling::*[1]"/>
        <sqf:with-param name="moveTo" select="/*"/>
    </saf:call-fix>
</sqf:fix>
<sqf:fix id="moveQuickFix">
    <sqf:param name="moveContext" required="yes"/>
    <sqf:param name="moveTo" required="yes"/>
    <saf:description>
        <sqf:title>Move the element <name path="$moveContext"/>
            into the element <name path="$moveTo"/>.</sqf:title>
    </saf:description>
    <sqf:add match="$moveTo" position="last-child" select="$moveContext"/>
    <sqf:delete match="$moveContext"/>
</sqf:fix>
```

Escali Web Implementation



http://www.escali.schematron-quickfix.com