Testing Schematron with XSpec

Sandro Cirulli
XSpec co-maintainer

XML Prague 2018

What is XSpec?

- XSpec is an open source **unit test** and behaviour-driven development (BDD) framework **for XSLT, XQuery, and Schematron**

- **XSpec v1.0.0** was released on **4th February 2018**

- XSpec is **included in oXygen**

XSpec

Unit Test and Behaviour Driven Development (BDD) Framework for XSLT, XQuery, and Schematron

https://github.com/xspec/xspec

New Feature: Schematron Support

- Feature request came from **XML Prague 2017**

- Vincent Lizzi added **Schematron support in XSpec**

- Mark Dunn and AirQuick made **XSpec tests for Schematron runnable via Ant**

- The feature is **available in XSpec v1.0.0**

- **Documentation and tutorials available** on the XSpec wiki

Schematron Support
demo-01.xml

```xml
<?xml version="1.0"?>
<article>
  <title>Example</title>
</article>
```

```xml
<sch:schema
    xmlns:sch="http://purl.oclc.org/dsdl/schematron"
    queryBinding="xslt2">

    <sch:pattern>
        <sch:rule context="article">
            <sch:assert test="title" id="a001">
                article should have a title
            </sch:assert>
        </sch:rule>
    </sch:pattern>

</sch:schema>
```

```xml
<x:description
        xmlns:x="http://www.jenitennison.com/xslt/xspec"
        schematron="demo-01.sch">

    <x:scenario label="Given an XML file with an article">

      <x:context href="demo-01.xml"/>

      <x:scenario label="article should have a title">
          <x:expect-not-assert id="a001"/>
      </x:scenario>

    </x:scenario>

</x:description>
```

Useful Links

Thank you for your attention!

XSpec:
github.com/xspec/xspec

Documentation for Schematron support in XSpec:
github.com/xspec/xspec/wiki/Getting-Started-with-XSpec-and-Schematron
github.com/xspec/xspec/wiki/Writing-Scenarios-for-Schematron

Slides:
github.com/xspec/xspec/issues/158

Join the **XSpec Users Meetup at 17:30** in this room!