Refactoring XML documents with XQuery Update and XSLT
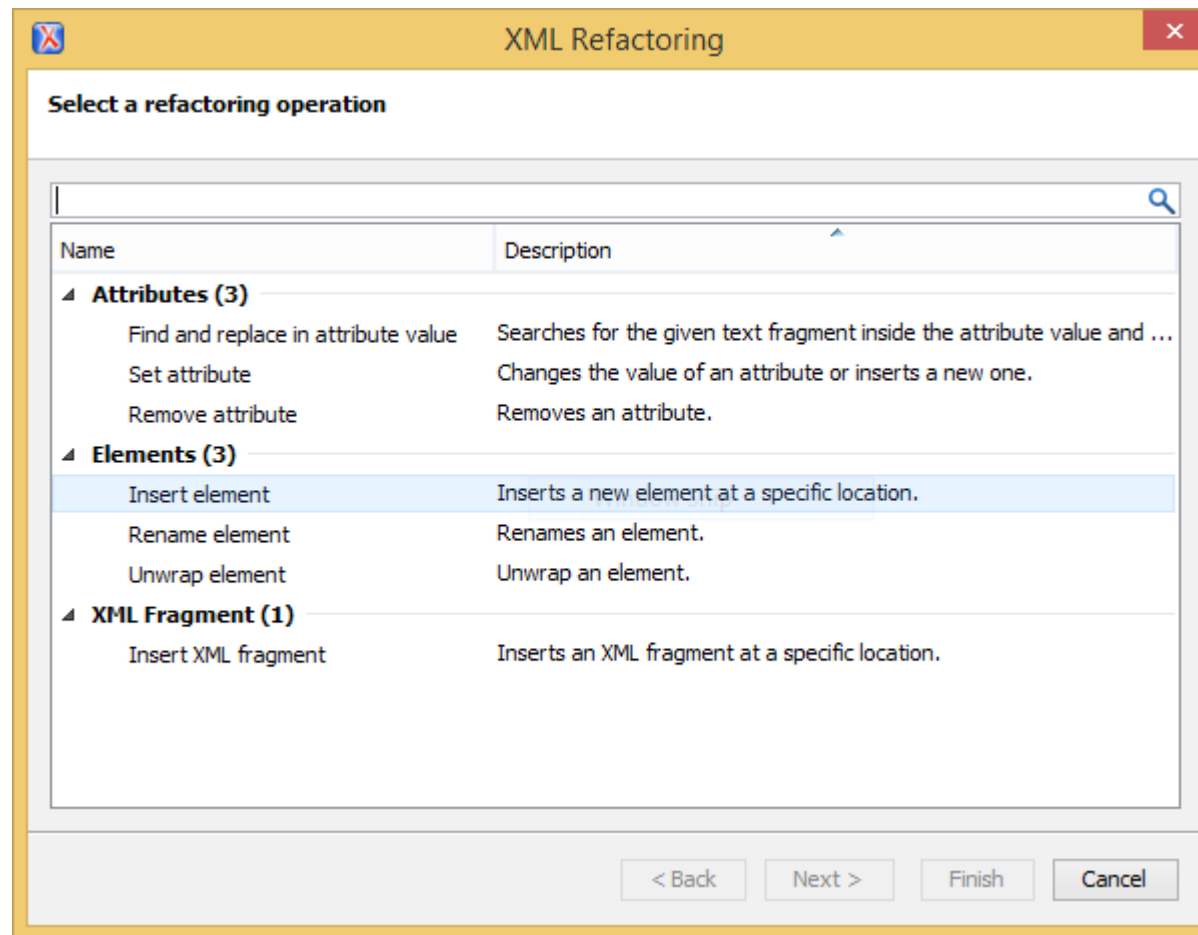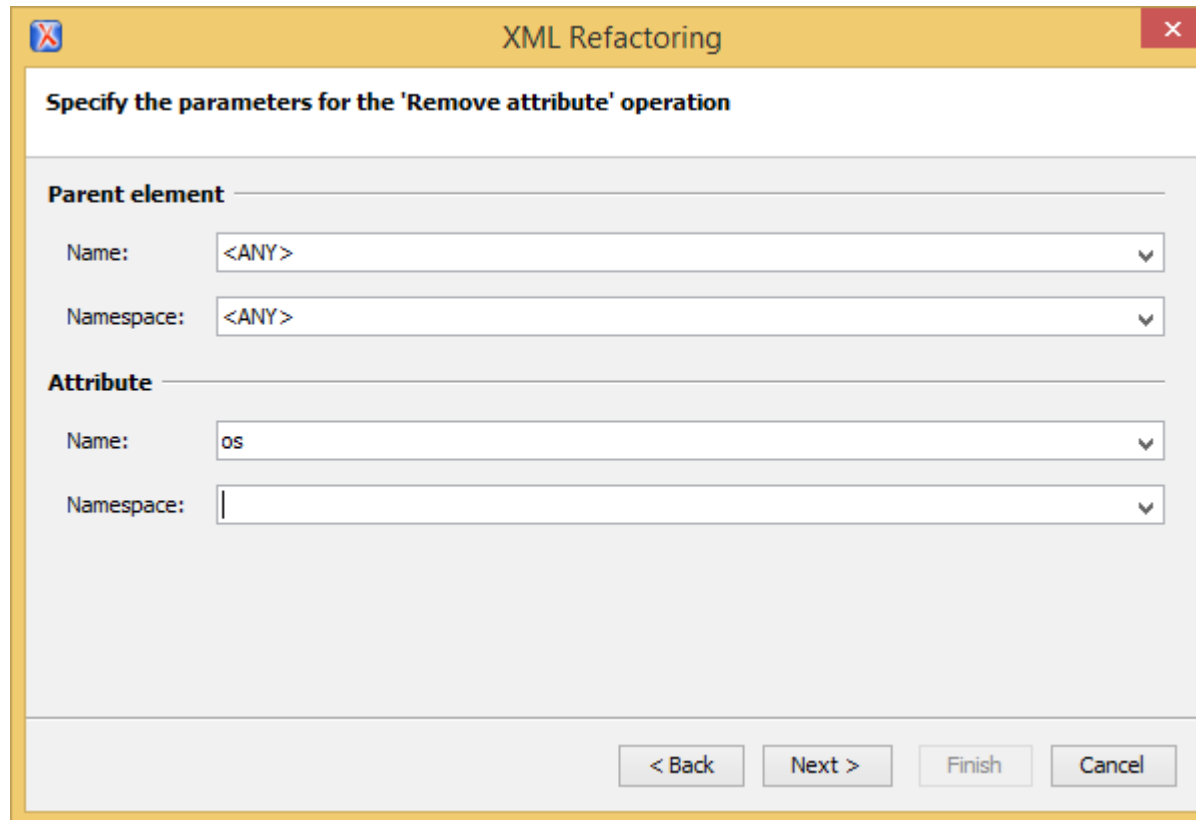
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Choose operation

Configure operation parameters

Select scope

Use cases

The XML Refactoring tool can address two types of use-cases:

- **simple changes** in XML document by using **predefined operations**
- **complex changes** that implies the creation of a **custom operation**

Change Attribute Value

Use the XML Refactoring tool to modify an entry from a multi-value attribute

```
<para os="linux;windows;mac">
    Before installing the photo...</para>
```

```
<para os="linux;win;mac">
    Before installing the photo...</para>
```

Rename an element

P: Convert the first bolded paragraph from a section to the section title.
S: Use the XML Refactoring to change the structure of an XML document by renaming and unwraping an element.

```xml
<section>
    <p><b>Lock your phone</b></p>
    <p>To lock your phone, press the <term>Lock</term> key with this icon <image
        href="../image/Lock.jpg" id="image_pmp_g14_2g" height="1em"/>.</p>
</section>
```

```xml
<section>
    <title>Lock your phone</title>
    <p>To lock your phone, press the <term>Lock</term> key with this icon <image
        href="../image/Lock.jpg" id="image_pmp_g14_2g" height="1em"/>.</p>
</section>
```
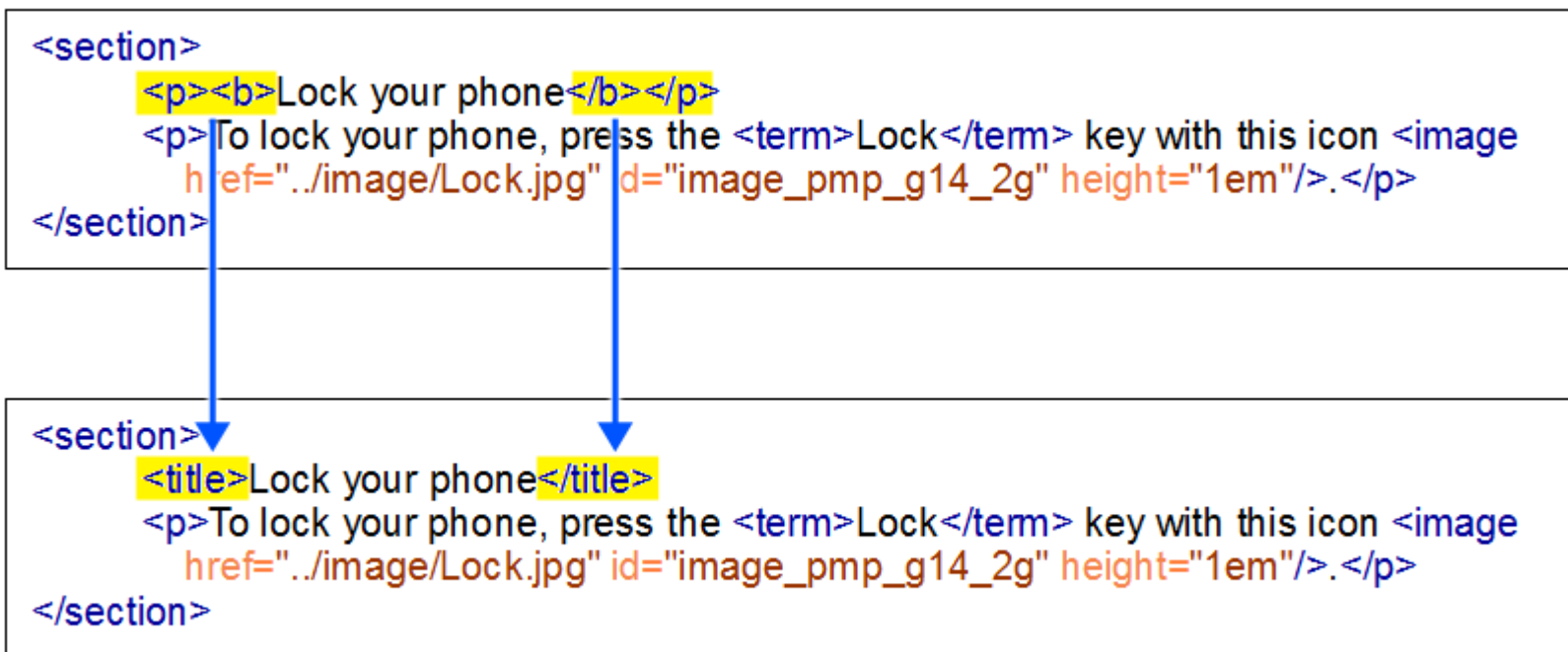
Predefined operations

Attribute operations

- Set attribute
- Remove attribute
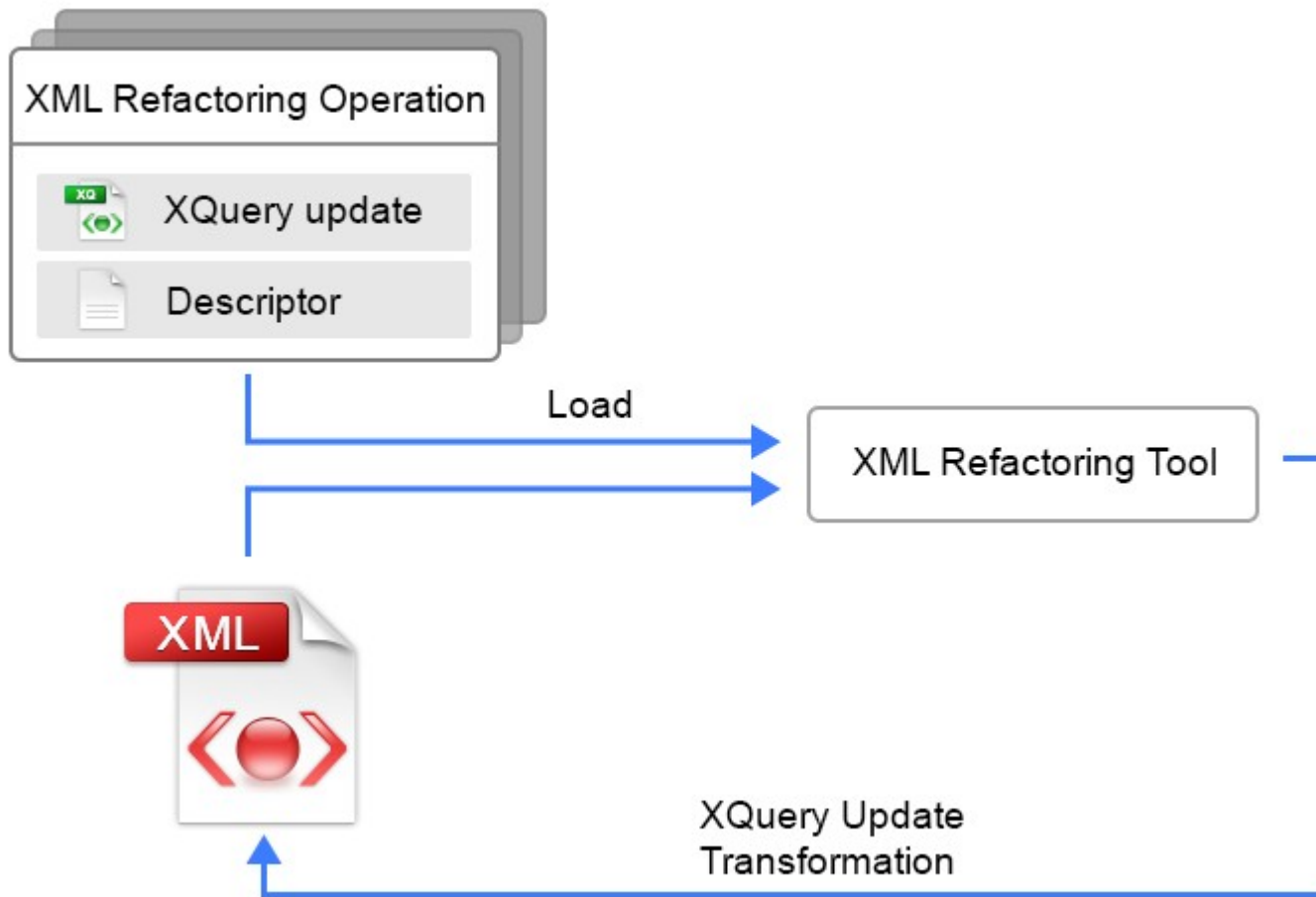- Find and replace in attribute value

Element operations

- Insert element
- Rename element
- Wrap element
- Wrap element content
- Unwrap element
- Delete element
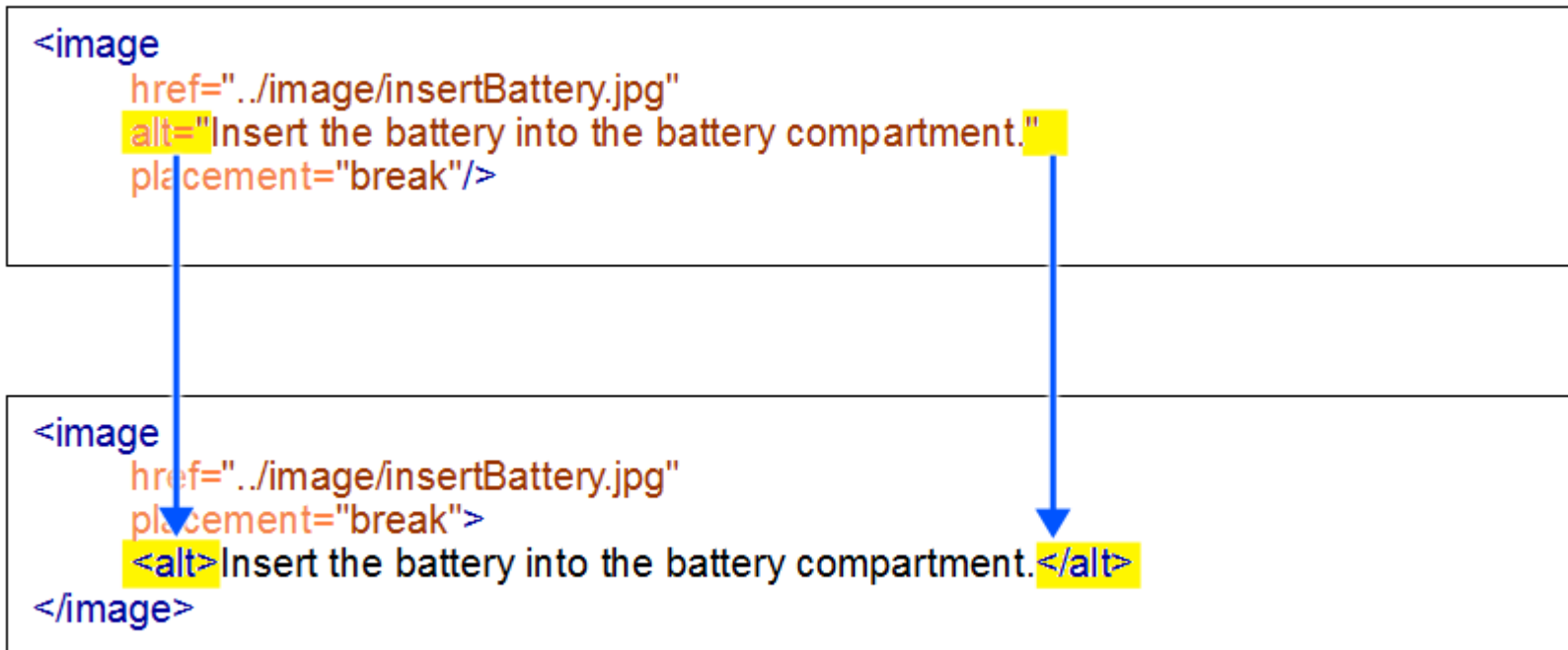- Delete element content

XML fragment operations

- Insert XML fragment
- Replace element with XML fragment
- Replace element content with XML fragment

XML Refactoring process

Convert an attribute to an element

P: Convert the **alt** attribute from an **image** to an element with the same name
S: Define a custom operation and use the XML Refactoring tool to execute it.

Future plans

- Define **custom operations** by specifying **XSLT scripts**
- Allow users to **share** their **custom operations**
- Add **Favorites support**
- Allow **querying the default attributes**

Thank you!

Questions?

XML Editor
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