# Pattern

Maps to a UML Attribute with the stereotype *XSDpattern.* The name and type of such an attribute do not make sense.

- value – to Attribute initial value or TaggedValue with name 'value'.

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**pattern XML representation summary**

```
<pattern
        id = ID
        value = anySimpleType
        {any attributes with non-schema namespace…}>
        Content: (annotation?)
</pattern>
{value} must be a valid regular expression.
```

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**pattern XML code sample**

```
The following is the definition of a user-derived datatype which is a better representation of postal codes in
the United States, by limiting strings to
those which are matched by a specific regular expression.

<simpleType name='better-us-zipcode'>
        <restriction base='string'>
                <pattern value='[0-9]{5}(-[0-9]{4})?'/>
        </restriction>
</simpleType>
```