Replace attribute

Version 1.0.0, by Giorgio Bianchini

Description: Changes the value of an attribute of a node that matches a criterion.

Module type: FurtherTransformation

Module ID:

f17160ad-0462-449a-8a57-e1af775c92ba

This module is used to add or change an attribute of the tree depending on the value of another attribute.

Parameters

Attribute (search attribute)

Control type: Text box

This parameter determines the attribute that needs to match the search criterion. If the attribute name entered here does not exist in the tree, the module does nothing.

Attribute type (search attribute)

Control type: Attribute type

Default value: String

Possible values:

String

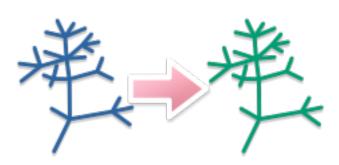
Number

This parameter should correspond to the correct attribute type for the attribute that needs to match the search criterion. If the attribute type is incorrect, the module does nothing.

Value (search attribute)

Control type: Text box

This text box is used to enter the value that needs to be matched.



Comparison type (Number)

Control type: Drop-down list

Default value: Equal

Possible values:

- Equal
- Smaller than
- Greater than

If the <u>Attribute type</u> of the attribute that is being matched is <u>Number</u>, the module can match attributes that are equal, smaller than or greather than the specified <u>Value</u>.

Comparison type (String)

Control type: Drop-down list

Default value: Normal

Possible values:

- Normal
- Case-insensitive
- Culture-aware
- Culture-aware, case-insensitive

If the Attribute type of the attribute that is being matched is String, this parameter determines how the strings are compared. If the value is Normal, the strings need to match exactly. If the value is Case insensitive, the case of the strings does not matter (e.g. AaBbCc matches both aabbcc and AABBCC). If the value is Culture-aware, the comparison takes into account culture-specific rules of the current display language of the OS (for example, in Hungarian ddzs would match dzsdzs).

Regex

Control type: Check box

Default value: Unchecked

If this check box is checked, string matches are performed using a regular expression. This makes it possible to search for complicated strings.

Apply recursively to all children

Control type: Check box

Default value: Unchecked

If this check box is checked, the replacement attribute is applied to all descendants of

matching nodes, regardless of whether the descendant actually matches the search criterion or not.

Attribute (replace attribute)

Control type: Text box

This parameter determines the name of the attribute whose value will be changed by this module. If the attribute already exists, its value will be replaced. If the attribute does not currently exist, it will be added to matching nodes. This attribute can be the same as the Attribute that is being matched.

Attribute type (replace attribute)

Control type: Attribute type

Default value: String

Possible values:

String

Number

This parameter determines the type of the new attribute.

Value (replace attribute)

Control type: Text box

This text box determines the value for the new attribute. The value should be coherent with the Attribute type, i.e. a (decimal) number if the attribute type is Number or a text string if the attribute type is String.

If the Regex check box is checked, it is possible to recall the value of capture groups here. Note that capture groups are specified by prepending the group index with a \$ sign (e.g. \$2 represents the second capture group in the regex).

Apply

Control type: Button

Further information

The two attributes can be the same, which causes the value of the attribute to be changed in-place (e.g. transform all taxon names to lowercase); if the two attributes are different, a new attribute can be added based on the value of an existing attribute (e.g. add an attribute

to all nodes with a support value lower than a certain threshold).

This module is also used by the "Replace" function of the *Search* module.