

# Compare trees

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*Version 1.0.0, by Giorgio Bianchini*

**Description:** Compares a tree with another tree loaded as an attachment or from the loaded trees.

**Module type:** FurtherTransformation

**Module ID:** 36ca9f8c-25b2-4b2b-aa16-308227788e5d

This module compares the current tree with another tree or another set of trees. The other tree can be specified either as an attachment containing one or more trees, or it can be one of the loaded trees.

For each branch in the current tree, the model will determine whether the split induced by the branch is present or compatible with the other tree(s). The results of these comparisons (Yes or No) are stored in the attributes `prefix_Present` and `prefix-Compatible` for each node (where `prefix_` is the value of the [Prefix](#) attribute). If multiple trees have been selected, the value of these attributes will be a number ranging from 0 to 1, showing in what proportion of the trees the split is present or compatible.

If the [Store attributes on equivalent splits](#) check box is checked (and only one tree is selected for comparison), for each split that is present in both trees, all the attributes from the other tree are copied on the current tree too, with the specified [Prefix](#).

## Parameters

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### Tree source

**Control type:** Drop-down list

**Default value:** Attachment

**Possible values:**

- Loaded tree
- Attachment

This parameter determines what tree is used for the comparison. If this is `Loaded tree`, the other tree is one of the loaded trees. If this is `Attachment`, the other tree is a tree that has been loaded as an attachment.

### Tree

**Control type:** Attachment

If the value for [Tree source](#) is `Attachment`, this parameter determines the attachment from which the tree is loaded. The tree is loaded using the File type module that reports the highest compatibility. If the attachment contains multiple trees, only the first tree is used.

## Tree index

**Control type:** Number spin box

**Default value:** 1

**Range:** [ 1,  $+\infty$  )

If the value for [Tree source](#) is `Loaded tree`, this parameter determines which one of the loaded trees is used for the comparison.

## Use tree name as prefix

**Control type:** Check box

**Default value:** Checked

If this check box is checked, the prefix to use for attribute names is determined automatically from the name of the attachment or the loaded tree index. Otherwise, it can be specified manually.

## Prefix

**Control type:** Text box

**Default value:** Other\_

If the [Use tree name as prefix](#) check box is unchecked, this text box can be used to determine the prefix that will be used for attribute names.

## Store attributes on equivalent splits

**Control type:** Check box

**Default value:** Checked

If this check box is checked, for splits that are present in both trees, attributes are copied from the other tree on to the current tree. Each attribute is prefixed with the [Prefix](#).

## Apply

**Control type:** Button

This button applies the changes to the other parameter values and signals that the tree needs to be redrawn.