{--} Custom script

Version 1.1.0, by Giorgio Bianchini

Description: Executes custom code.

Module type: FurtherTransformation

Module ID: a76d00d2-95e0-4274-a77d-1439a013e3d9

This module makes it possible to execute custom C# code to transform the tree. This can be useful either to perform one-off complicated modifications of the tree, or as a first step in developing a new module for TreeViewer.

Parameters

Description

Control type: Text box

Default value: Describe the script

This parameter can be used to provide a short description to quickly identify what the module does without having to look at the source code. It is ignored by the module.

Source code

Control type: Source code

Default value:

```
using PhyloTree;
using System.Collections.Generic;
using TreeViewer;
using System;

namespace a22ab59e74dce49c0878a7dfc78ed985d
{
    //Do not change class name
    public static class CustomCode
    {
        //Do not change method signature
        public static void PerformAction(ref TreeNode tree,
    TreeCollection trees, InstanceStateData stateData, Action
double> progressAction)
```

```
{
    //TODO: do something with the tree
}
}
```

This parameter contains the source code of the script. The arguments to the PerformAction method are as follows:

- tree: the transformed tree that has been computed by the Transformed module and any preceding Further transformation modules.
- trees: the collection of trees that were originally read from the file.
- stateData: an InstanceStateData object that can be used to access features in way that does not depend on the program running in command-line or GUI mode.
- progressAction: as your script does its thing, it should invoke this Action with a value between 0 and 1 to give feedback to the user about the progress.

Further information

The difference between this module and the other module with the same name is that this module acts as a Further transformation, while the other *Custom script* module (id cdb74bfb-8a90-48b3-815a-8f908d2a1ff5) is instead a Plot action.

The code in the module can do anything, including loading additional data from a file on disk. However, this is discouraged, becaus it ties the tree file on the computer it was created on. A better approach to load additional data would be to import the data file as an attachment and read the data from the attachment. Attachments can be accessed using the Attachments property of the stateData object that is passed as a method parameter.

Furthermore, since the code in the module can do anything, it may also be a security risk to open files originating from unknown sources; thus, you should either make sure that any file you open comes from a reputable source, or avoid loading source code from tree files at all.