Excel static read

This component could need from excel by user defined range, output could be organized by excel column or row.

Four input:	
Path:	Excel file path (Compulsory)
Connect:	Bool input, default true. Please switch it to off after use so excel process could be killed
Sheet:	Integer input, default 1, first sheet
Range:	1. String list input, default "all", read all values in a sheet. 2. Each list item should be a row (**15:**15, same digit) or a column (AA**:AA**, same letter) in Excel. 3. Values from each list item will be output as a branch in the output datatree.
Two output:	
Output:	DataTree output for all values read from excel. According to "Row to list" toggle, output a row or a column to a list. Each item in the range list become a branch.
Message:	Error messages
One menu toggle:	
Row to list	Default unchecked, toggle between a column to a list in output or a row to a list

For **simple use**, just define a path for an excel file, values are read from entire first sheet.

The connect need to be set to false, otherwise excel process won't terminate. Excel process is not killed immediately after reading value to make the reading when change sheet or change range faster.

Excel Dynamic read

This component could read from excel by user defined range at real time, output could be organized by excel column or row. Changing in excel file could be immediately seen from component output. Also allow define input range by mouse drag in excel.

Four input:	
Path:	Excel file path (Compulsory)
Connect:	Bool input, default false, when true, excel window will pop out. Please switch it to off after use so excel process could be killed
Sheet:	Integer input, default 1, first sheet
Range:	1. String list input, default "all", read all values in a sheet. 2. Each list item should be a row (**15:**15, same digit) or a column (AA**:AA**, same letter) in Excel. 3. Values from each list item will be output as a branch in the output datatree.
Two output:	
Output:	DataTree output for all values read from excel. According to "Row to list" toggle, output a row or a column to a list. Each item in the range list become a branch.
Message:	Error messages
Two menu toggle:	
Row to list	Default unchecked, toggle between a column to a list in output or a row to a list
Graphic Control	Default unchecked, toggle between normal and graphic control mode. In graphic control mode, range and sheet input are ignored, range to read from excel are defined by mouse drag in excel

For **simple use**, just define a path for an excel file, set connect to true, a excel window will pop out, values are read from entire first sheet, value change in excel could be seen directly in output data tree.

One limitation is that Static read and Dynamic read does not work at the same time, because I cannot get more than one excel from Running Object Table right now.

For graphic control mode, some time excel get busy for very long (because of SheetSelectionChangeEventHandler?) Any suggestions, please let me know:-)

Excel Write

This component could write datatree from grasshopper to excel, output could be organized by excel column or row.

Five input:	
Path:	Excel file path (Compulsory), if file exist, it will be written to, otherwise, a new file will be created.
Data:	Data Tree input, the datatree should have only one level of branches. Each branch will be written to a row or a column depending on "List to Row" toggle.
Sheet:	Integer input, default 1, first sheet
Connect:	Bool input, default false, Please switch it to off after use so excel process could be killed
Range:	1. String list input, default "all", write to top left corner. 2. Each list item should be a cell (such as A15) in Excel. It defines the position the branch of data could start writting. 3. Values from each branch will be output as a row or a column. Number of item in Range should be the same as number of branches.
One output:	
Message:	Error messages.
Three menu toggle:	
List to Row	Default unchecked, toggle between write each branch to a column or a row.
Overwrite	Default unchecked. Allow overwritten to the file opened. If unchecked and try to write to a cell not empty, Error message will be generated.
Recording	Default unchecked, toggle between normal mode and recording mode. In recording mode, if datatree input change, no overwritten will be checked, item will be written to next cell in column or row.

For **simple use**, just define a path for an excel file, input a datatree and toggle the Connect. Datatree will be written to top left corner of first Excel sheet, one branch per column.

The recording mode is designed for cases with multiple sliders, when slider change,

all changes will be recorded. In case of using Galapagos, if all sliders are connected to this component, each iteration will be recorded and could be reload.