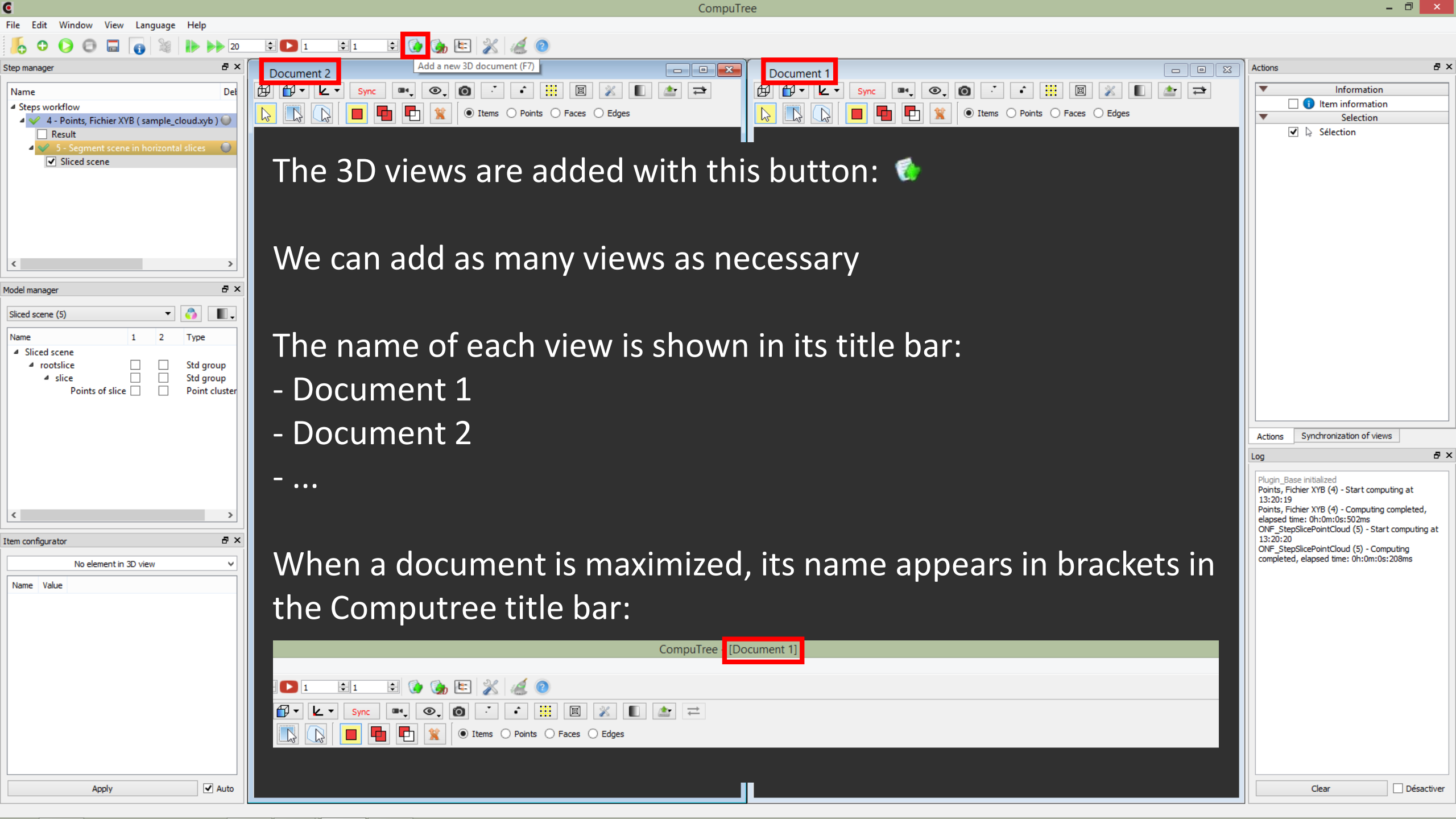
Tutorial CT02
EN

Using 3D views, Selection Toolbar

Alexandre Piboule, 19/07/2018, Computree v5.0.169


CompuTree
File Edit Window View Language Help
Add a new 3D document (F7)
Step manager
Name
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
Sliced scene (5)
Name 1 2 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point cluster
Item configurator
No element in 3D view
Name Value
Apply
Auto
Document 2
Document 1
Sync
Items Points Faces Edges
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:20:19
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:502ms
ONF_StepSlicePointCloud (5) - Start computing at 13:20:20
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:208ms
Clear
Désactiver
The 3D views are added with this button:
We can add as many views as necessary
The name of each view is shown in its title bar:
- Document 1
- Document 2
- ...
When a document is maximized, its name appears in brackets in the Computree title bar:
CompuTree - [Document 1]

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Debug

Steps workflow
- 4 - Points, Fichier XYB (sample_cloud.xyb)
  - Result
- 5 - Segment scene in horizontal slices
  - Sliced scene

Model manager

Result (4)

Name	1	Type
Result		
Group	☐	Std group
Scène	☑	Point scene
Intensité	☐	Point quint16 attributes
Scanner	☐	Scan position
File header	☐	XYB Header

Item configurator

Item with points

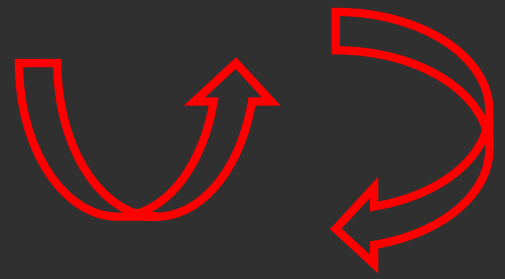
	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

The camera is manipulated with the mouse



By holding down the left mouse button you can apply a rotation of the camera

Actions

Information
- ☐ Item information

Selection
- ☑ Sélection

Actions | Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:55:12
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:565ms
ONF_StepSlicePointCloud (5) - Start computing at 13:55:13
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:314ms

Clear ☐ Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Debug

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- 4 - Points, Fichier XYB (sample_cloud.xyb)
  - Result
- 5 - Segment scene in horizontal slices
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Model manager

Result (4)

Name	1	Type
Result		
Group	☐	Std group
Scène	☑	Point scene
Intensité	☐	Point quint16 attributes
Scanner	☐	Scan position
File header	☐	XYB Header

Item configurator

Item with points

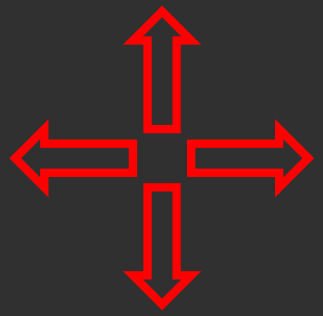
	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

The camera is manipulated with the mouse



By holding the right mouse button you can apply a translation of the camera

Actions

Information
- ☐ Item information

Selection
- ☑ Sélection

Actions | Synchronization of views

Log

Plugin_Base initialized
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Clear ☐ Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Debug

Steps workflow
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  - Result
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Model manager

Result (4)

Name	1	Type
Result		
Group	☐	Std group
Scène	☑	Point scene
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Scanner	☐	Scan position
File header	☐	XYB Header

Item configurator

Item with points

	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

The camera is manipulated with the mouse

The mouse wheel allows you to zoom in / out:

- Either by rolling it forward / backward
- Either by holding it down while moving backward / forward

Actions

Information
- Item information

Selection
- Sélection

Actions | Synchronization of views

Log

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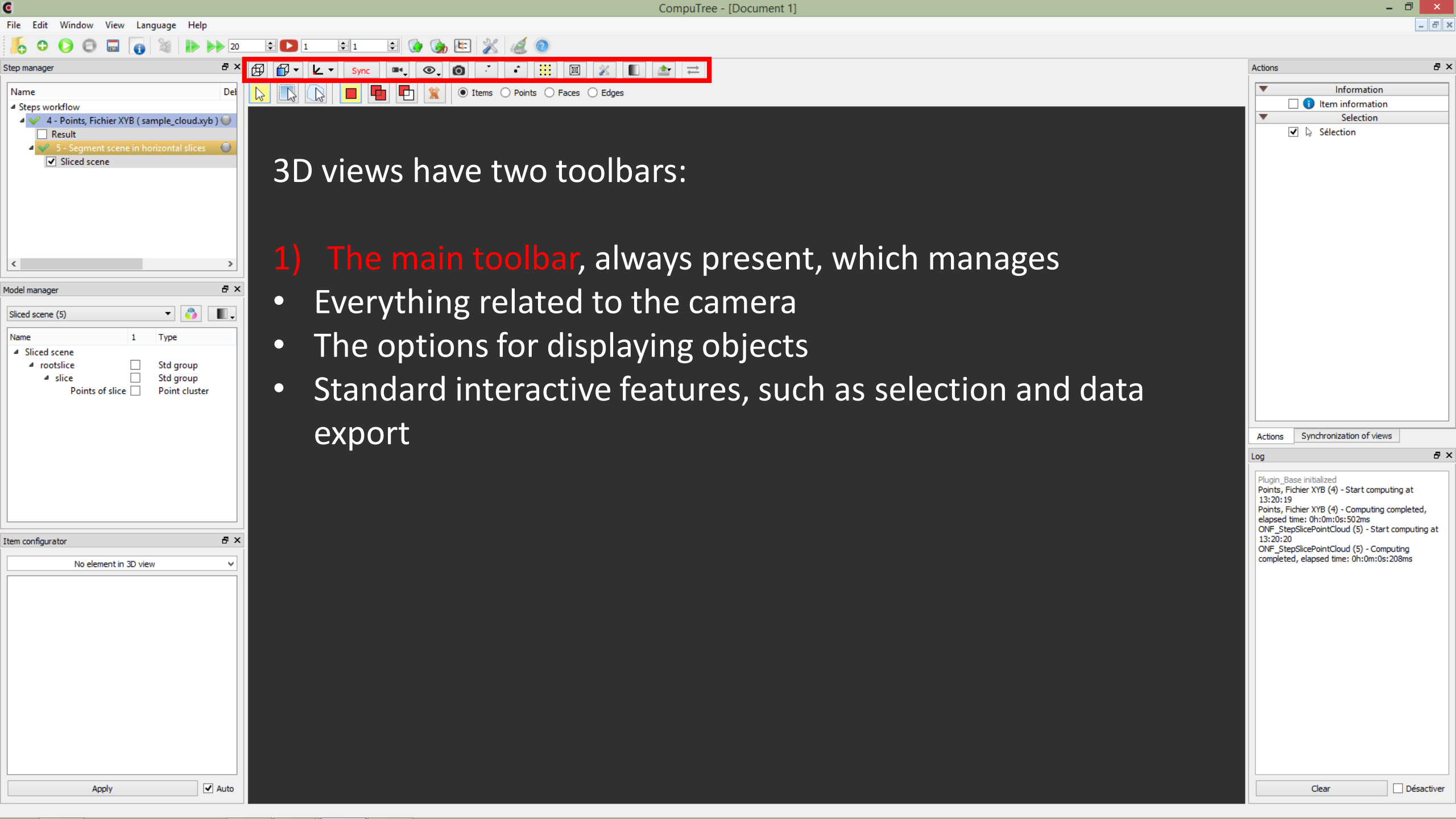
Clear ☐ Désactiver


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name
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5 - Segment scene in horizontal slices
Sliced scene
Model manager
Sliced scene (5)
Name 1 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point cluster
Item configurator
No element in 3D view
Apply
Auto
Sync
Items Points Faces Edges
3D views have two toolbars:
1) The main toolbar, always present, which manages
• Everything related to the camera
• The options for displaying objects
• Standard interactive features, such as selection and data export
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
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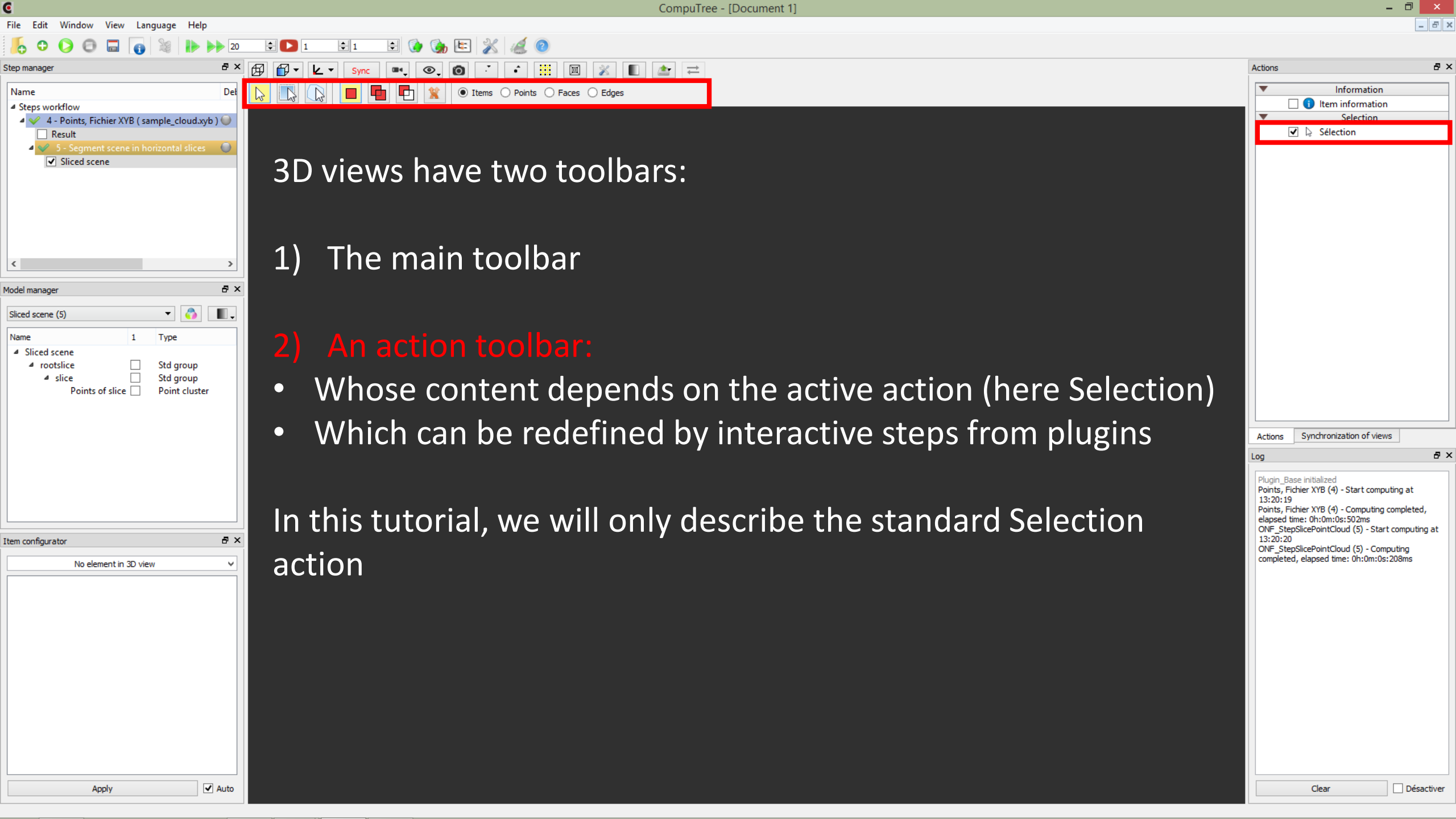
Clear
Désactiver


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
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Sliced scene (5)
Name 1 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point cluster
Item configurator
No element in 3D view
Apply
Auto
Sync
Items Points Faces Edges
3D views have two toolbars:
1) The main toolbar
2) An action toolbar:
• Whose content depends on the active action (here Selection)
• Which can be redefined by interactive steps from plugins
In this tutorial, we will only describe the standard Selection action
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
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ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:208ms
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Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Del

Steps workflow
- 4 - Points, Fichier XYB (sample_cloud.xyb)
  - Result
- 5 - Segment scene in horizontal slices
  - Sliced scene

Model manager

Sliced scene (5)

Name	1	Type
Sliced scene		
rootslice	☐	Std group
slice	☐	Std group
Points of slice	☑	Point cluster

Item configurator

Point cluster

	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate
4	Barycenter	☐ Activate
5	Polyline	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

Let's start with the main toolbar

Actions

Information
- ☐ Item information

Selection
- ☑ Sélection

Actions | Synchronization of views

Log

Plugin_Base initialized
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Clear ☐ Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Del

Steps workflow

4 - Points, Fichier XYB (sample_cloud.xyb)

Result

5 - Segment scene in horizontal slices

Sliced scene

Model manager

Sliced scene (5)

Name	1	Type
Sliced scene		
rootslice	☐	Std group
slice	☐	Std group
Points of slice	☑	Point cluster

Item configurator

Point cluster

	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate
4	Barycenter	☐ Activate
5	Polyline	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

The first button allows to refocus the view on the currently visible data

By default the view is centered on the coordinates (0,0,0).
It is therefore necessary to use this button to "find" data.

Actions

Information

Item information

Selection

Sélection

Actions Synchronization of views

Log

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ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:208ms

Clear ☐ Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name

Steps workflow
- 4 - Points, Fichier XYB (sample_cloud.xyb)
  - Result
- 5 - Segment scene in horizontal slices
  - Sliced scene

Model manager

Sliced scene (5)

Name	1	Type
Sliced scene		
rootslice		Std group
slice		Std group
Points of slice	✓	Point cluster

Item configurator

Point cluster

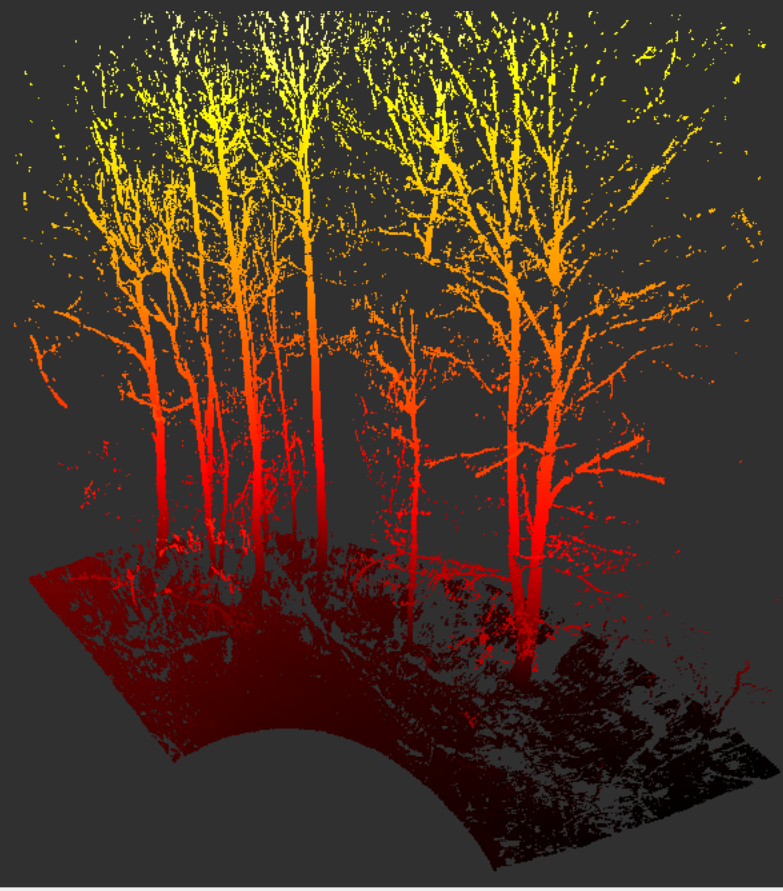
	Name	Value
1	Points	✓ Activate
2	Bounding Shape	Activate
3	Bounding Shape center	Activate
4	Barycenter	Activate
5	Polyline	Activate

Apply ✓ Auto

Sync

Items Points Faces Edges

The second button gives access to 6 standard orientations of the camera, according to the 3 axes, and in the two opposite directions



Actions

Information
- Item information

Selection
- ✓ Sélection

Actions | Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:20:19
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:502ms
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ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:208ms

Clear Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Del

Steps workflow
- 4 - Points, Fichier XYB (sample_cloud.xyb)
  - Result
  - 5 - Segment scene in horizontal slices
    - Sliced scene

Model manager

Sliced scene (5)

Name	1	Type
Sliced scene		
rootslice	☐	Std group
slice	☐	Std group
Points of slice	☑	Point cluster

Item configurator

Point cluster

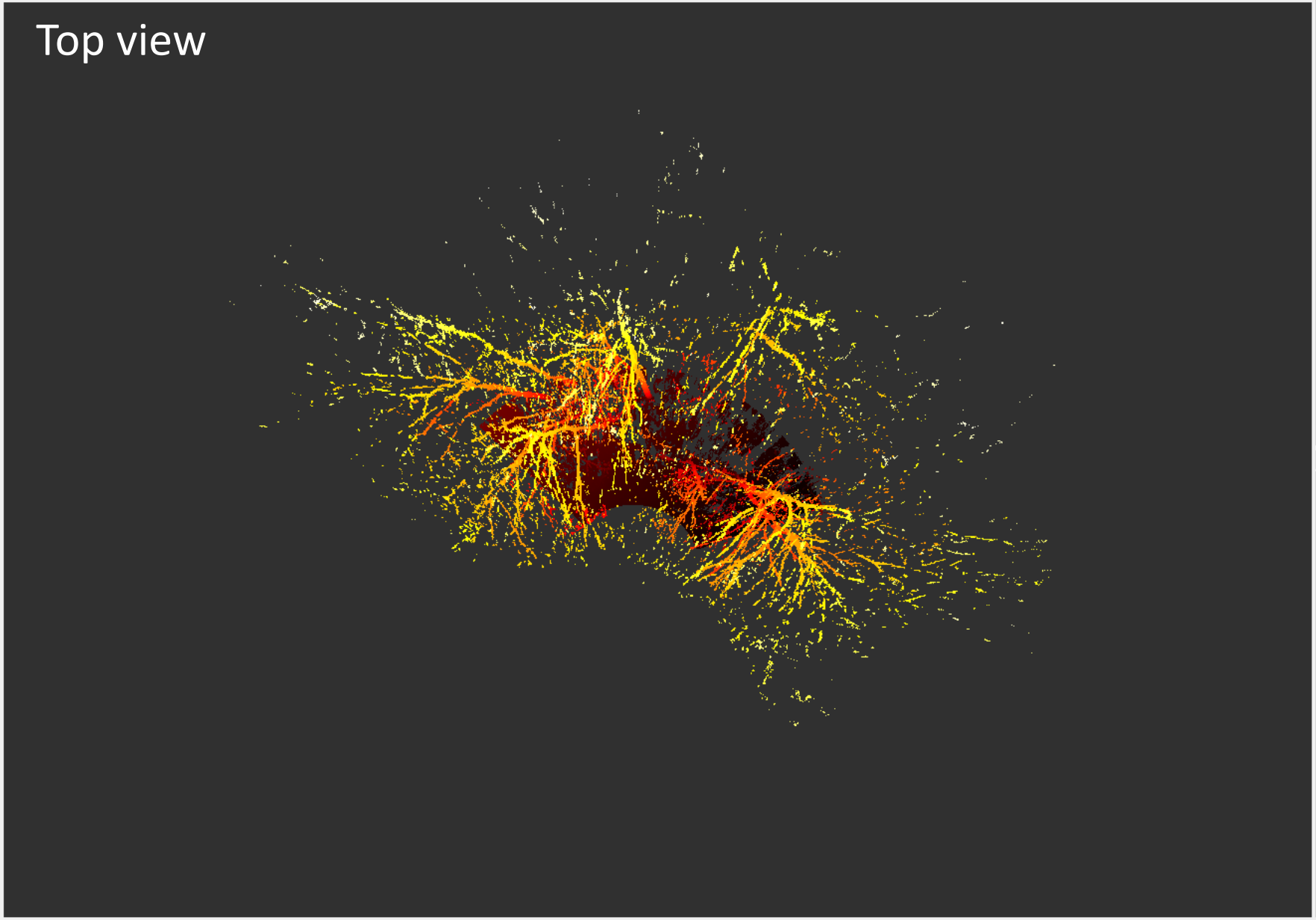
	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate
4	Barycenter	☐ Activate
5	Polyline	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

Top view



Actions

Information
- ☐ Item information

Selection
- ☑ Sélection

Actions | Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:20:19
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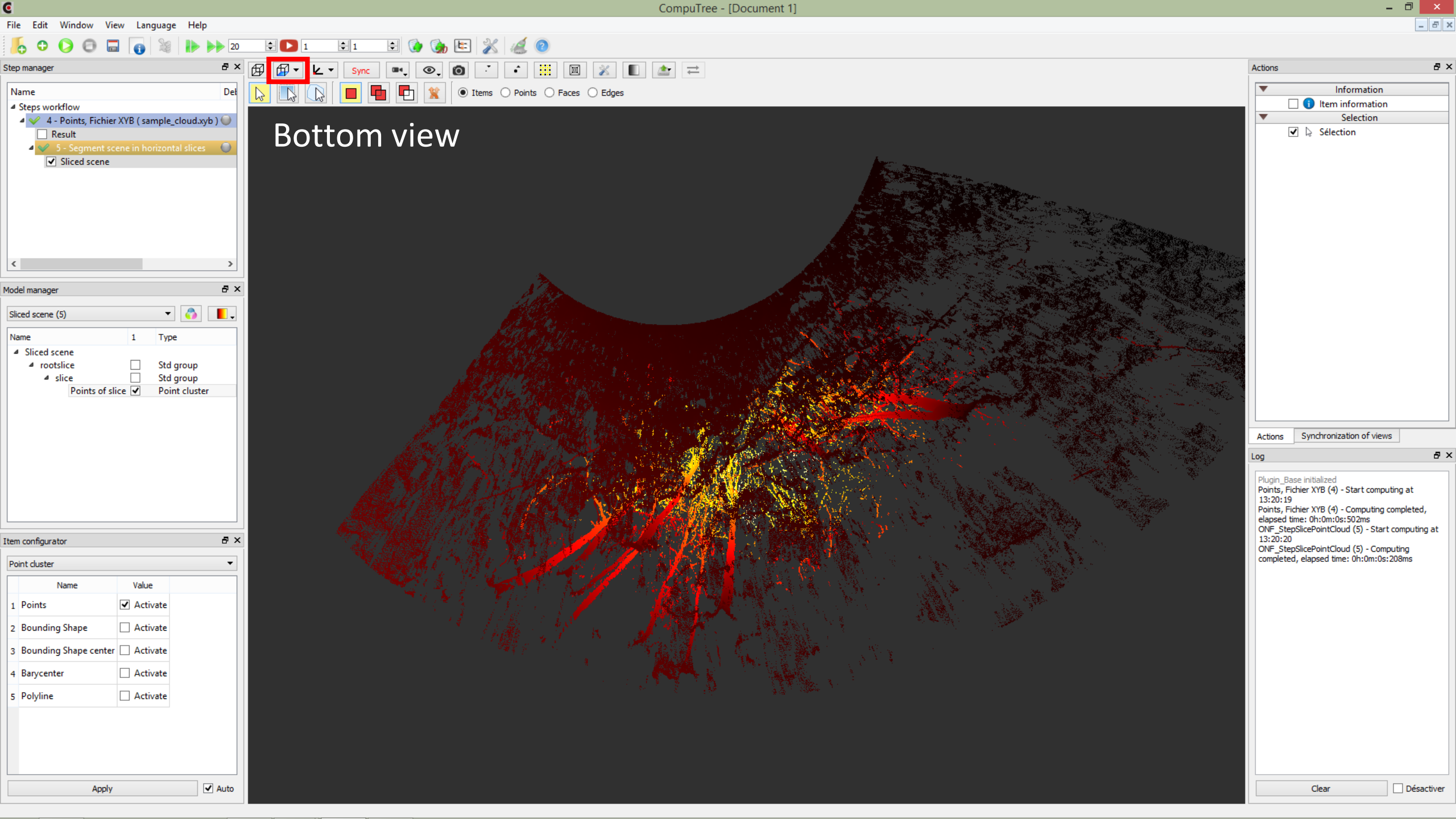
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:208ms

Clear ☐ Désactiver


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
Sliced scene (5)
Name 1 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point cluster
Item configurator
Point cluster
Name Value
1 Points Activate
2 Bounding Shape Activate
3 Bounding Shape center Activate
4 Barycenter Activate
5 Polyline Activate
Apply
Auto
Sync
Items Points Faces Edges
Bottom view
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:20:19
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:502ms
ONF_StepSlicePointCloud (5) - Start computing at 13:20:20
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Clear
Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name	Del
Steps workflow	
4 - Points, Fichier XYB (sample_cloud.xyb)	
Result	
5 - Segment scene in horizontal slices	
Sliced scene	

Model manager

Sliced scene (5)

Name	1	Type
Sliced scene		
rootslice		Std group
slice		Std group
Points of slice		Point cluster

Item configurator

Point cluster

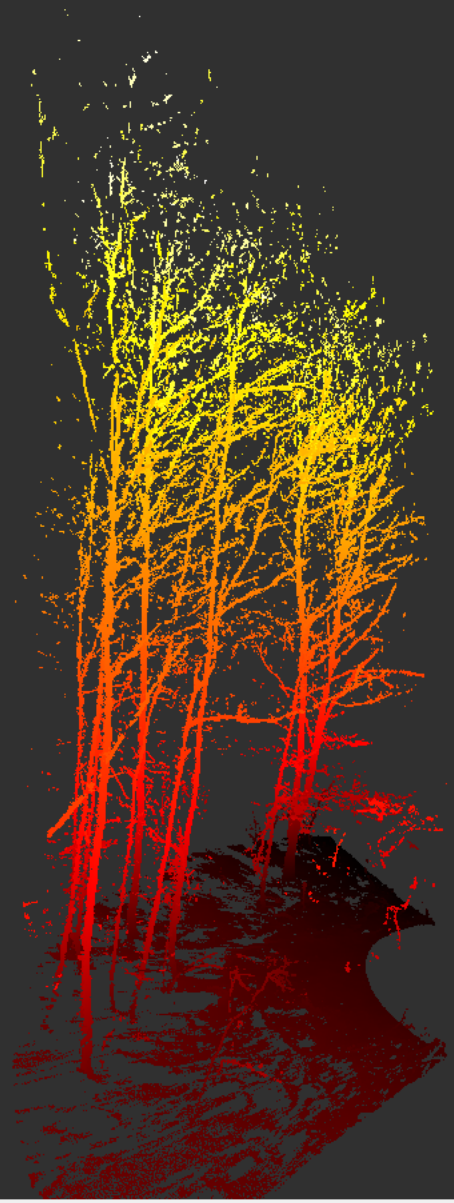
	Name	Value
1	Points	Activate
2	Bounding Shape	Activate
3	Bounding Shape center	Activate
4	Barycenter	Activate
5	Polyline	Activate

Apply Auto

Sync

Items Points Faces Edges

Left view



Actions

Information
Item information
Selection
Sélection

Actions Synchronization of views

Log

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Clear Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name	Del
Steps workflow	
4 - Points, Fichier XYB (sample_cloud.xyb)	
Result	
5 - Segment scene in horizontal slices	
Sliced scene	

Model manager

Sliced scene (5)

Name	1	Type
Sliced scene		
rootslice	☐	Std group
slice	☐	Std group
Points of slice	☑	Point cluster

Item configurator

Point cluster

	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate
4	Barycenter	☐ Activate
5	Polyline	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

Right view

Actions

Information
☐ Item information
Selection
☑ Sélection

Actions | Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:20:19
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:502ms
ONF_StepSlicePointCloud (5) - Start computing at 13:20:20
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Clear ☐ Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name	Deb
Steps workflow	
4 - Points, Fichier XYB (sample_cloud.xyb)	
Result	
5 - Segment scene in horizontal slices	
Sliced scene	

Model manager

Sliced scene (5)

Name	1	Type
Sliced scene		
rootslice		Std group
slice		Std group
Points of slice		Point cluster

Item configurator

Point cluster

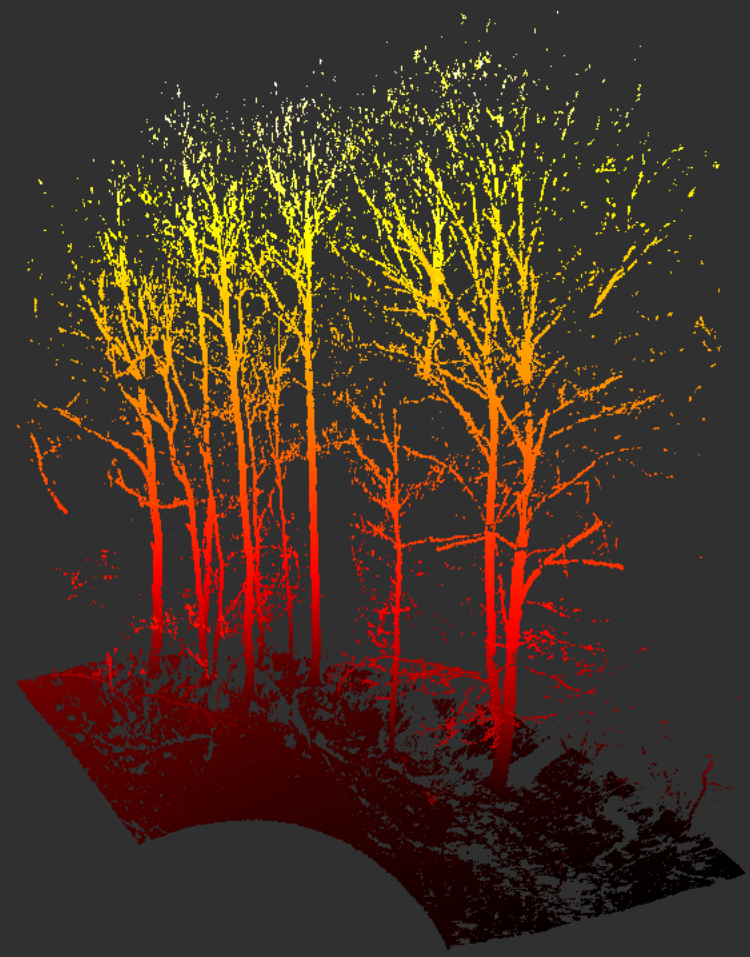
	Name	Value
1	Points	Activate
2	Bounding Shape	Activate
3	Bounding Shape center	Activate
4	Barycenter	Activate
5	Polyline	Activate

Apply Auto

Sync

Items Points Faces Edges

Front view



Actions

Information
Item information
Selection
Sélection

Actions Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:49:22
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:523ms
ONF_StepSlicePointCloud (5) - Start computing at 13:49:22
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:242ms

Clear Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name	Deb
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Model manager

Sliced scene (5)

Name	1	Type
Sliced scene		
rootslice	☐	Std group
slice	☐	Std group
Points of slice	☑	Point cluster

Item configurator

Point cluster

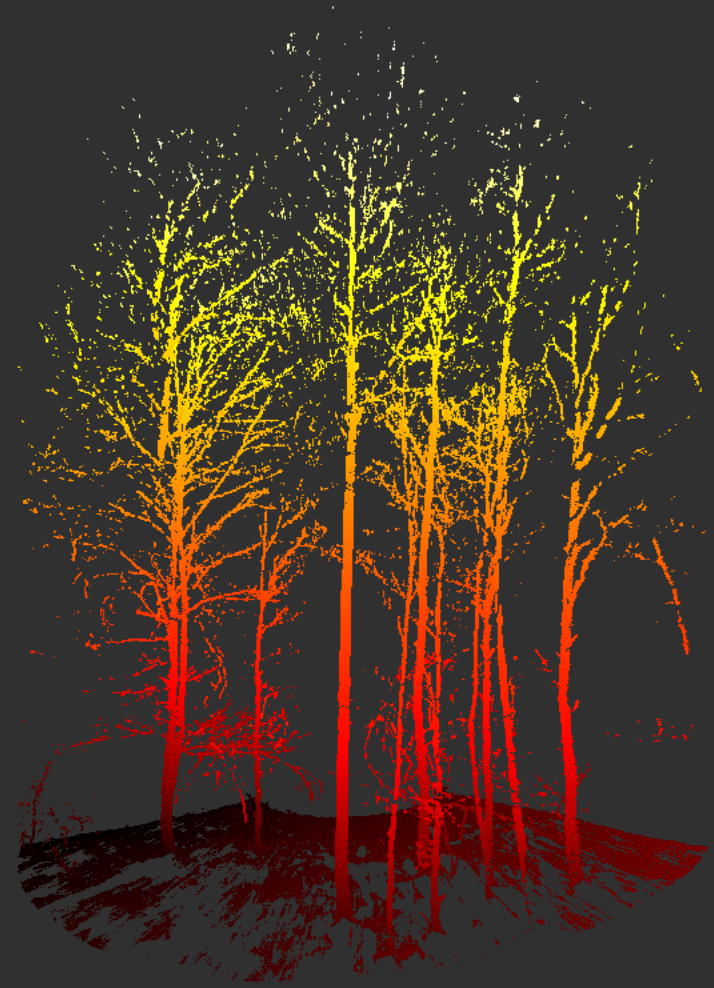
	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate
4	Barycenter	☐ Activate
5	Polyline	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

Rear view



Actions

Information
☐ Item information
Selection
☑ Sélection

Actions | Synchronization of views

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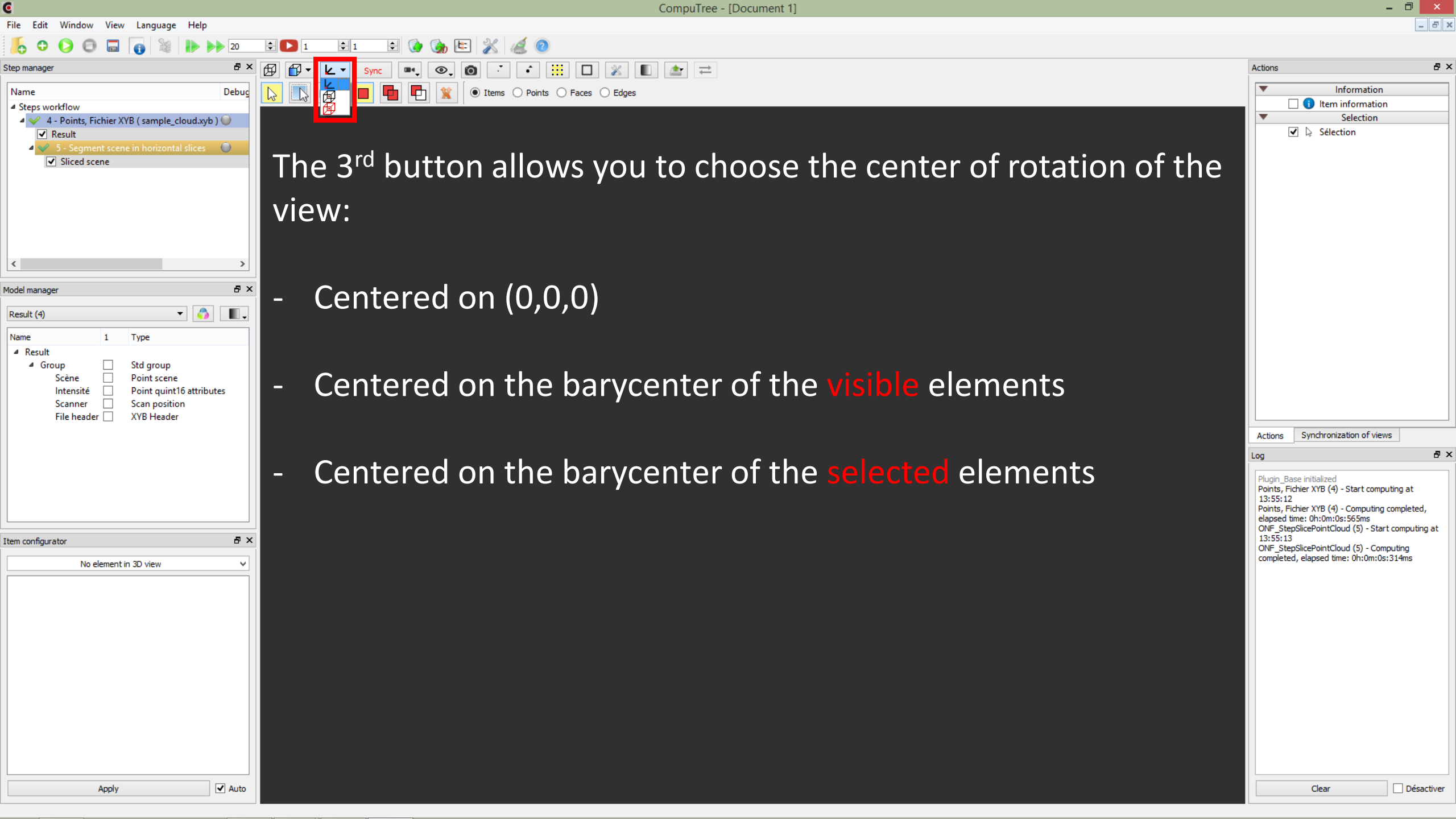
Clear ☐ Désactiver


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug
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4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
Result (4)
Name 1 Type
Result
Group Std group
Scène Point scene
Intensité Point quint16 attributes
Scanner Scan position
File header XYB Header
Item configurator
No element in 3D view
Apply Auto
Sync
Items Points Faces Edges
The 3rd button allows you to choose the center of rotation of the view:
- Centered on (0,0,0)
- Centered on the barycenter of the visible elements
- Centered on the barycenter of the selected elements
Actions
Information
Item information
Selection
Sélection
Actions Synchronization of views
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Clear Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Debug

Steps workflow
- 4 - Points, Fichier XYB (sample_cloud.xyb)
  - Result
- 5 - Segment scene in horizontal slices
  - Sliced scene

Model manager

Result (4)

Name	1	Type
Result		
Group	☐	Std group
Scène	☑	Point scene
Intensité	☐	Point quint16 attributes
Scanner	☐	Scan position
File header	☐	XYB Header

Item configurator

Item with points

	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

Centered on (0,0,0)

Actions

Information
- ☐ Item information

Selection
- ☑ Sélection

Actions | Synchronization of views

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CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Debug

Steps workflow
- 4 - Points, Fichier XYB (sample_cloud.xyb)
  - Result
- 5 - Segment scene in horizontal slices
  - Sliced scene

Model manager

Result (4)

Name	1	Type
Result		
Group	☐	Std group
Scène	☑	Point scene
Intensité	☐	Point quint16 attributes
Scanner	☐	Scan position
File header	☐	XYB Header

Item configurator

Item with points

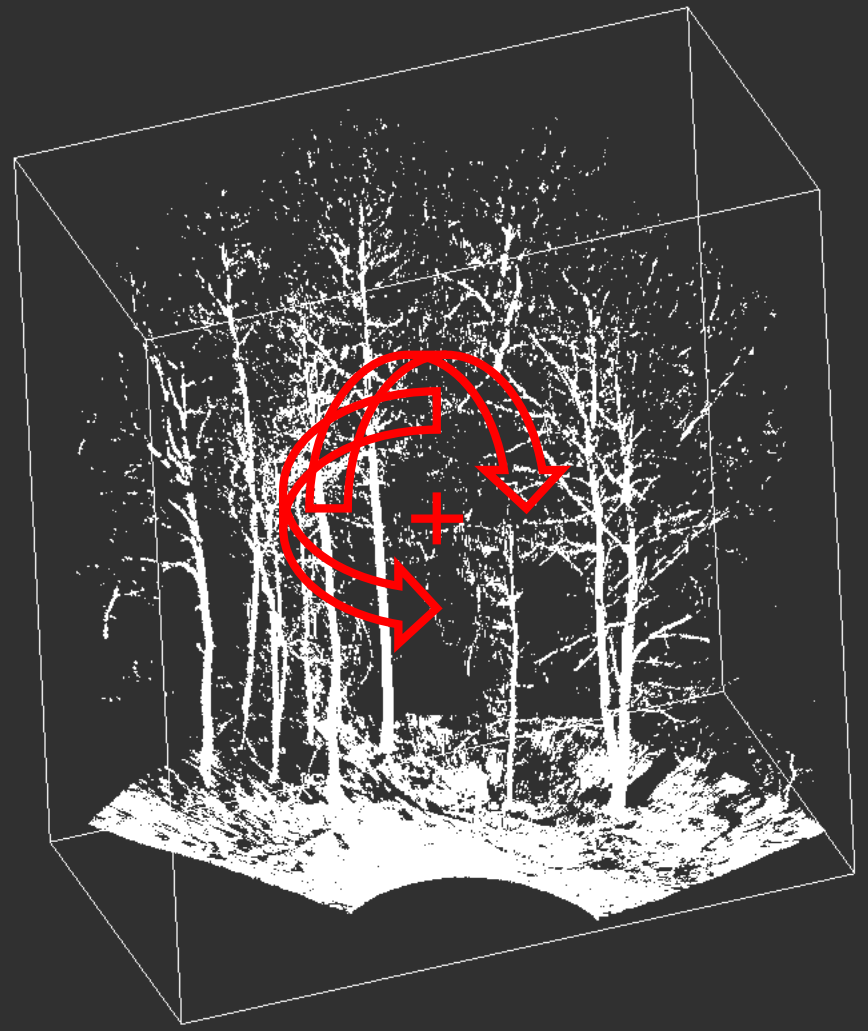
	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☑ Activate
3	Bounding Shape center	☑ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

Centered on the barycenter of the visible elements



Actions

Information
- ☐ Item information

Selection
- ☑ Sélection

Actions | Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:55:12
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:565ms
ONF_StepSlicePointCloud (5) - Start computing at 13:55:13
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:314ms

Clear ☐ Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name	Debug
Steps workflow	
4 - Points, Fichier XYB (sample_cloud.xyb)	
Result	
5 - Segment scene in horizontal slices	
Sliced scene	

Model manager

Sliced scene (5)

Name	1	Type
Sliced scene		
rootslice		Std group
slice		Std group
Points of slice		Point cluster

Item configurator

Point cluster

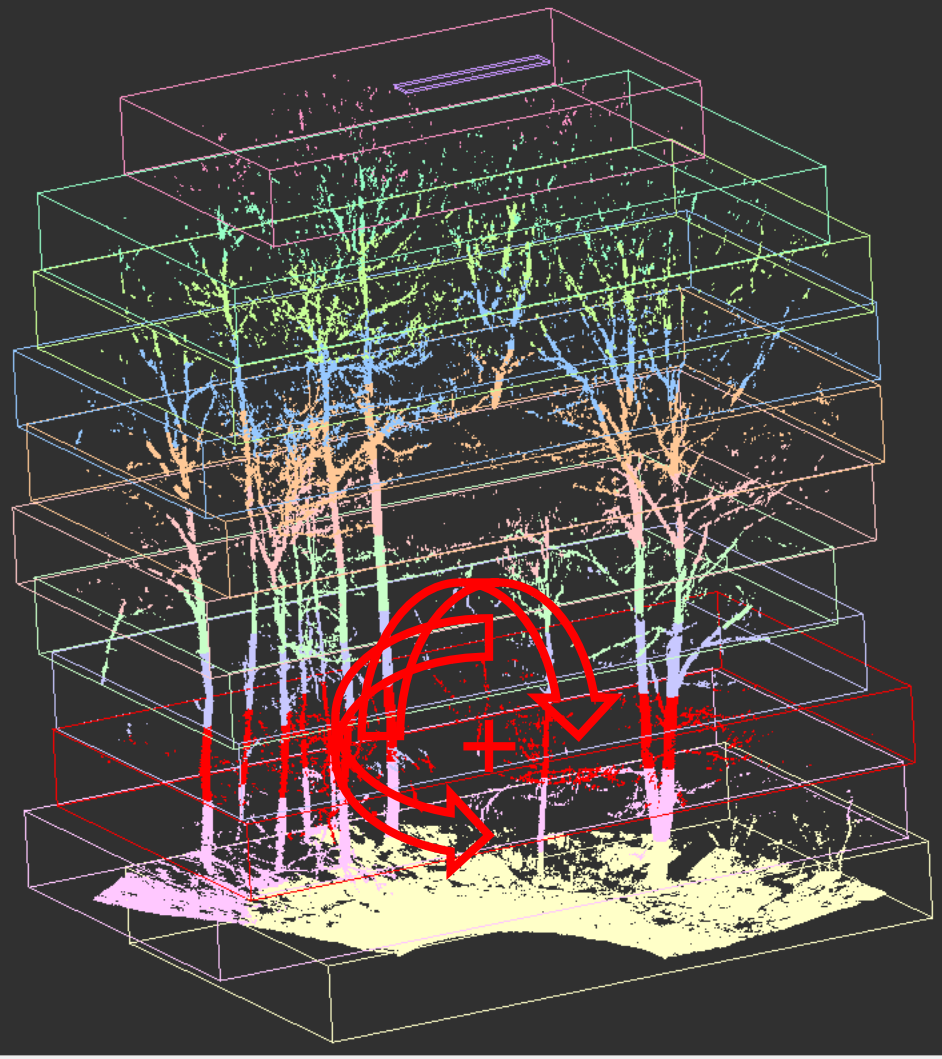
	Name	Value
1	Points	Activate
2	Bounding Shape	Activate
3	Bounding Shape center	Activate
4	Barycenter	Activate
5	Polyline	Activate

Apply Auto

Sync

Items Points Faces Edges

Centered on the barycenter of the selected elements



Actions

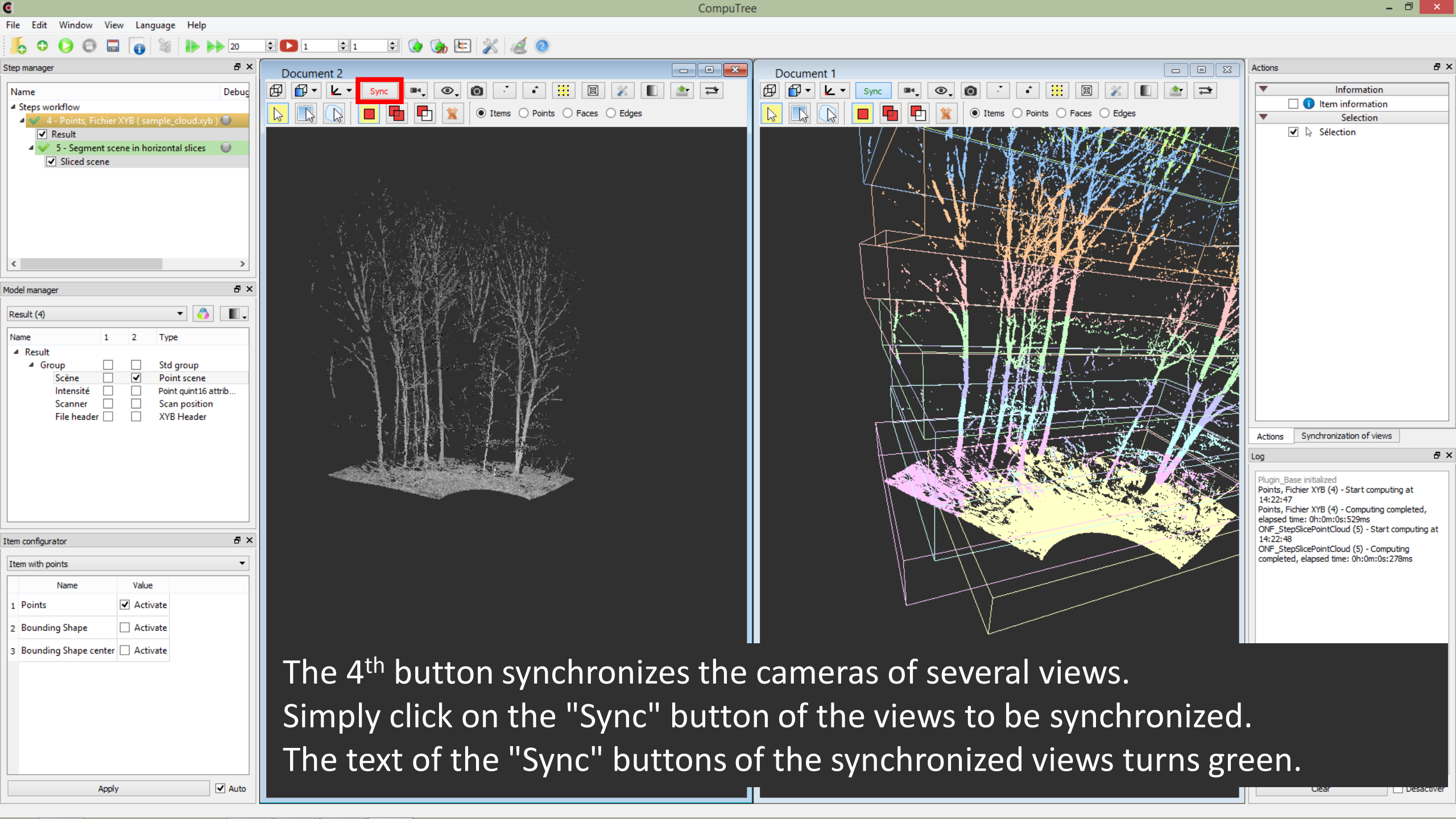
Information
Item information
Selection
Sélection

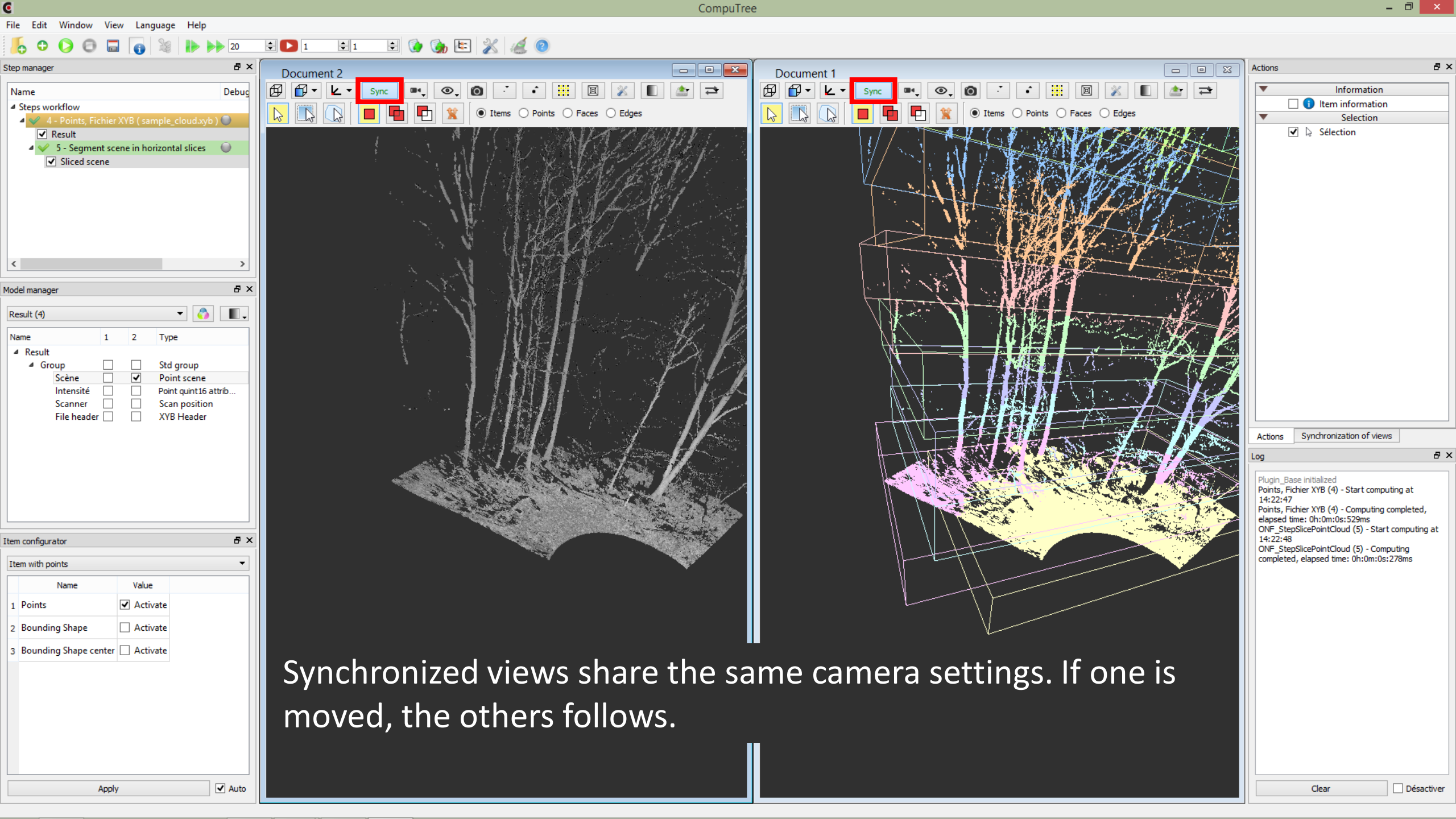
Actions Synchronization of views

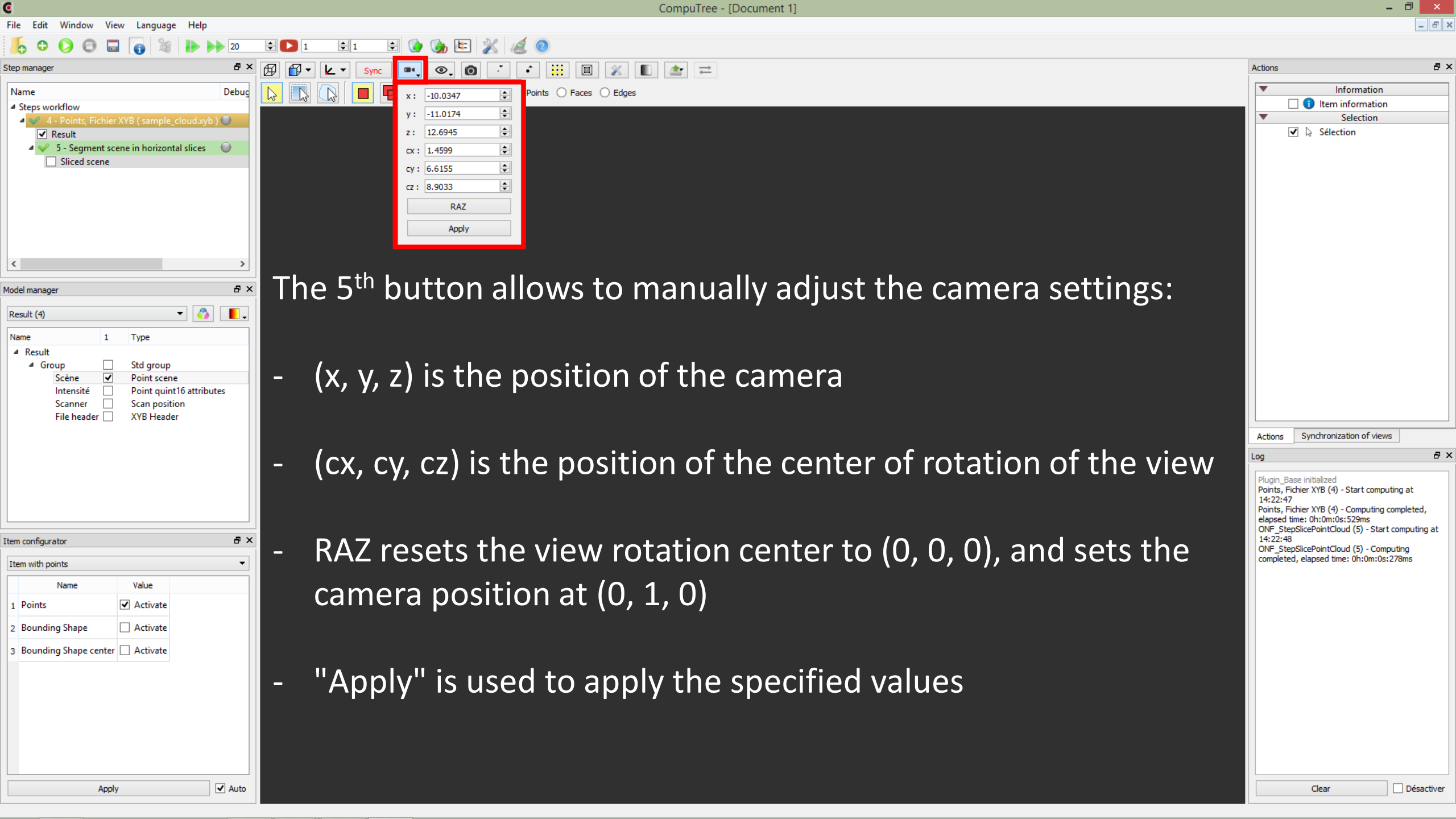
Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:55:12
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:565ms
ONF_StepSlicePointCloud (5) - Start computing at 13:55:13
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:314ms

Clear Désactiver

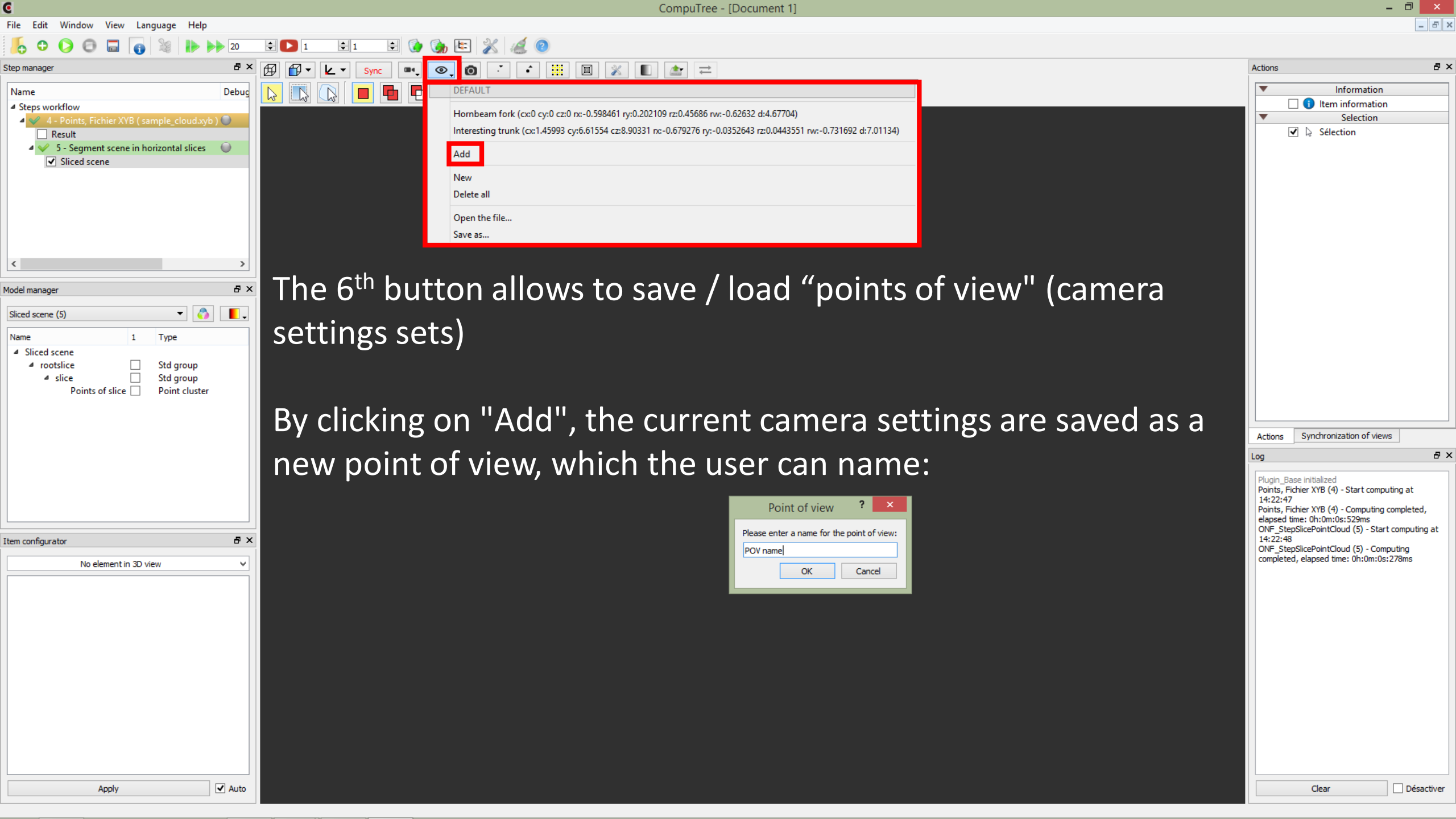

CompuTree
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
Result (4)
Name 1 2 Type
Result
Group Std group
Scène Point scene
Intensité Point quint16 attrib...
Scanner Scan position
File header XYB Header
Item configurator
Item with points
Name Value
1 Points Activate
2 Bounding Shape Activate
3 Bounding Shape center Activate
Apply Auto
Document 2
Sync
Items Points Faces Edges
Document 1
Sync
Items Points Faces Edges
Actions
Information
Item information
Selection
Sélection
Actions Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 14:22:47
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:529ms
ONF_StepSlicePointCloud (5) - Start computing at 14:22:48
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:278ms
Clear Desactiver
The 4th button synchronizes the cameras of several views.
Simply click on the "Sync" button of the views to be synchronized.
The text of the "Sync" buttons of the synchronized views turns green.

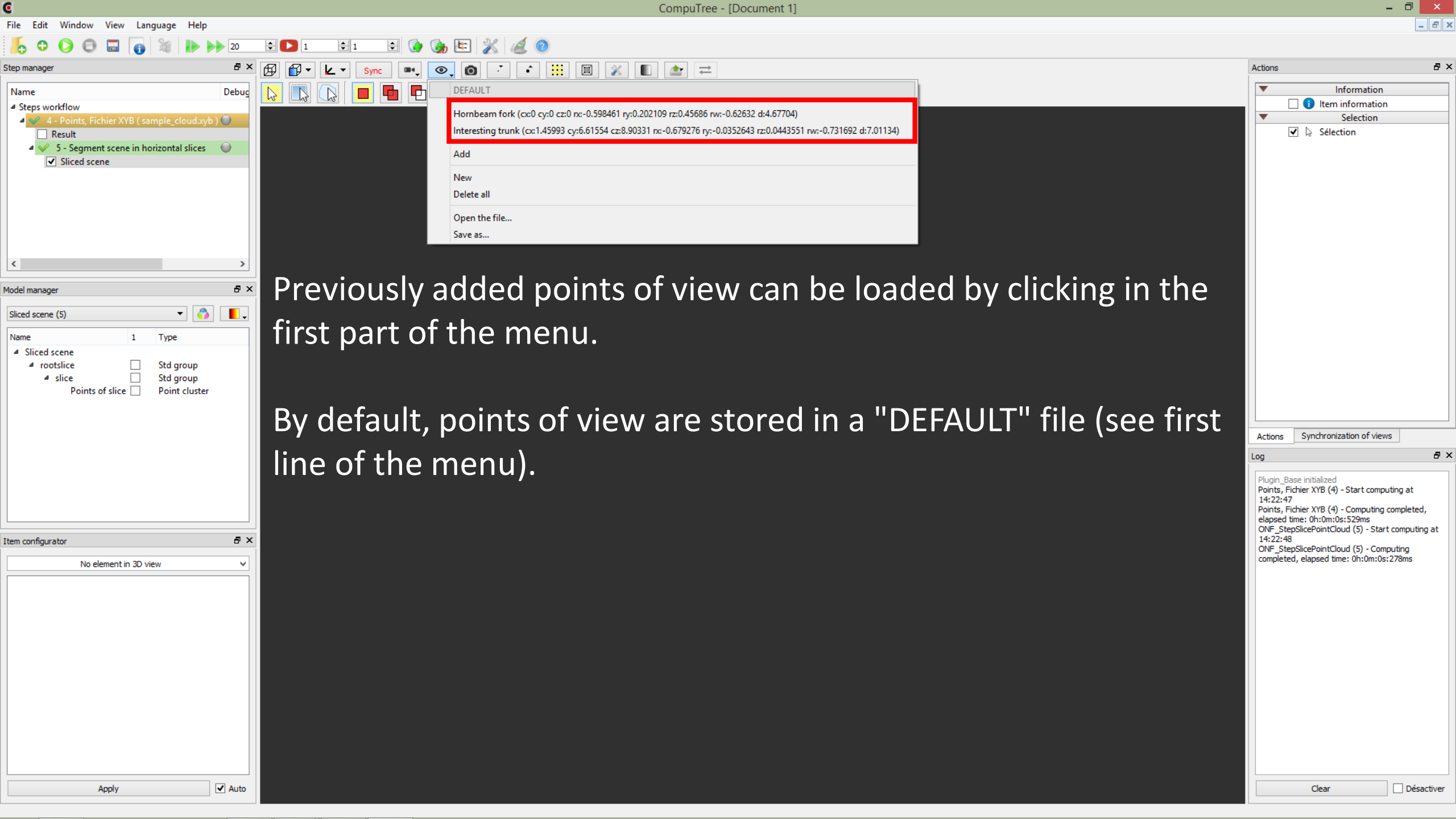

CompuTree
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
Result (4)
Name 1 2 Type
Result
Group Std group
Scène Point scene
Intensité Point quint16 attrib...
Scanner Scan position
File header XYB Header
Item configurator
Item with points
Name Value
1 Points Activate
2 Bounding Shape Activate
3 Bounding Shape center Activate
Apply Auto
Document 2
Sync
Items Points Faces Edges
Document 1
Sync
Items Points Faces Edges
Actions
Information
Item information
Selection
Sélection
Actions Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 14:22:47
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:529ms
ONF_StepSlicePointCloud (5) - Start computing at 14:22:48
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:278ms
Clear Désactiver
Synchronized views share the same camera settings. If one is moved, the others follows.

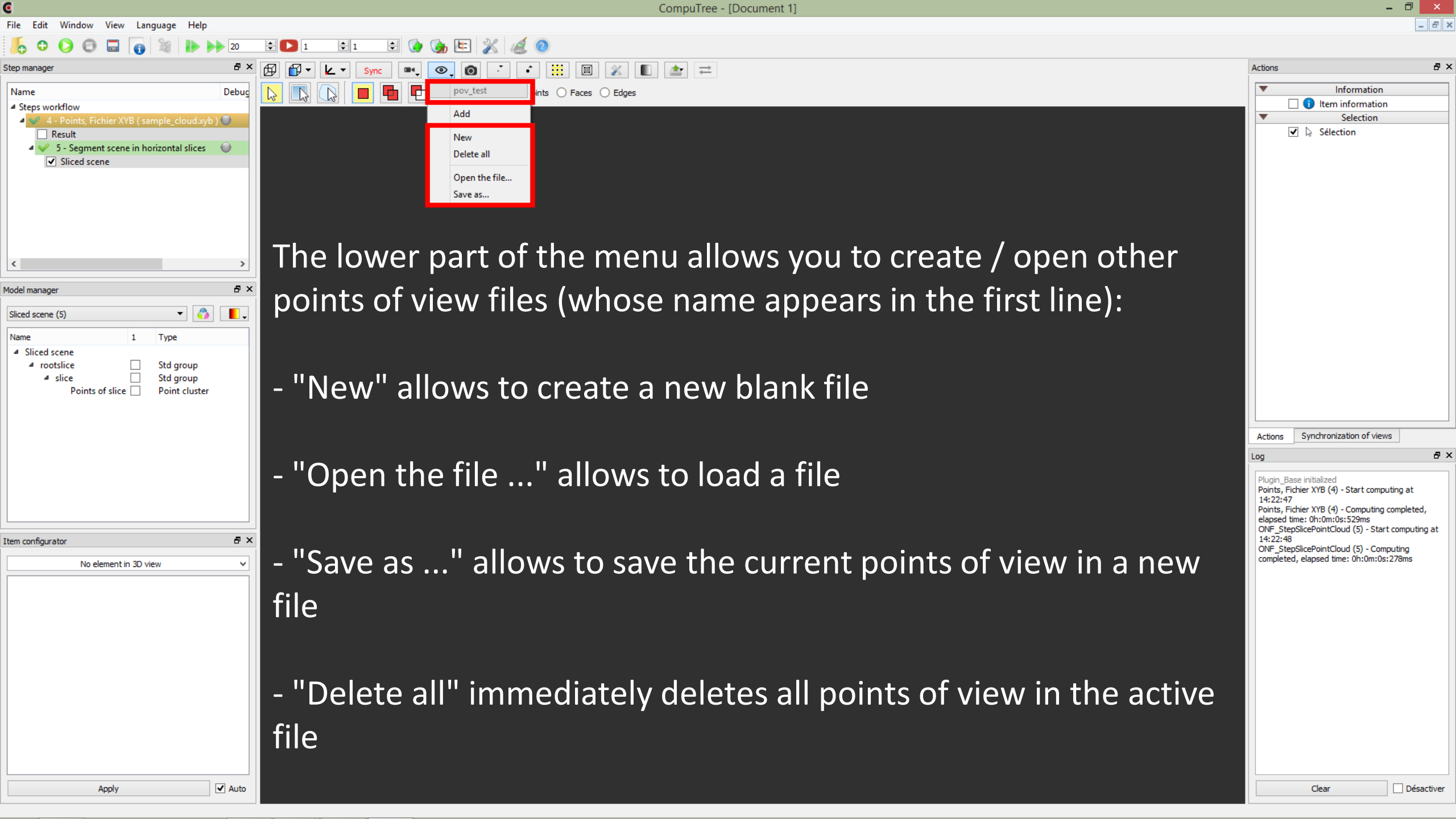


The 5th button allows to manually adjust the camera settings:

- (x, y, z) is the position of the camera
- (cx, cy, cz) is the position of the center of rotation of the view
- RAZ resets the view rotation center to (0, 0, 0), and sets the camera position at (0, 1, 0)
- "Apply" is used to apply the specified values


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
Sliced scene (5)
Name 1 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point cluster
Item configurator
No element in 3D view
Apply Auto
Sync
DEFAULT
Hornbeam fork (cx:0 cy:0 cz:0 rx:-0.598461 ry:0.202109 rz:0.45686 rw:-0.62632 d:4.67704)
Interesting trunk (cx:1.45993 cy:6.61554 cz:8.90331 rx:-0.679276 ry:-0.0352643 rz:0.0443551 rw:-0.731692 d:7.01134)
Add
New
Delete all
Open the file...
Save as...
The 6th button allows to save / load “points of view" (camera settings sets)
By clicking on "Add", the current camera settings are saved as a new point of view, which the user can name:
Point of view
Please enter a name for the point of view:
POV name
OK Cancel
Actions
Information
Item information
Selection
Sélection
Actions Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 14:22:47
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:529ms
ONF_StepSlicePointCloud (5) - Start computing at 14:22:48
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:278ms
Clear Désactiver


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
Sliced scene (5)
Name 1 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point cluster
Item configurator
No element in 3D view
Apply
Auto
Sync
DEFAULT
Hornbeam fork (cx:0 cy:0 cz:0 rx:-0.598461 ry:0.202109 rz:0.45686 rw:-0.62632 d:4.67704)
Interesting trunk (cx:1.45993 cy:6.61554 cz:8.90331 rx:-0.679276 ry:-0.0352643 rz:0.0443551 rw:-0.731692 d:7.01134)
Add
New
Delete all
Open the file...
Save as...
Previously added points of view can be loaded by clicking in the first part of the menu.
By default, points of view are stored in a "DEFAULT" file (see first line of the menu).
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 14:22:47
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:529ms
ONF_StepSlicePointCloud (5) - Start computing at 14:22:48
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:278ms
Clear
Désactiver



The lower part of the menu allows you to create / open other points of view files (whose name appears in the first line):

- "New" allows to create a new blank file

- "Open the file ..." allows to load a file

- "Save as ..." allows to save the current points of view in a new file

- "Delete all" immediately deletes all points of view in the active file

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Del

Steps workflow
- 4 - Points, Fichier XYB (sample_cloud.xyb)
  - Result
- 5 - Segment scene in horizontal slices
  - Sliced scene

Model manager

Sliced scene (5)

Name	1	Type
Sliced scene		
rootslice	☐	Std group
slice	☐	Std group
Points of slice	☑	Point cluster

Item configurator

Point cluster

	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate
4	Barycenter	☐ Activate
5	Polyline	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

The 7th button allows to export a screenshot of the active view.

A dialog box allows you to choose its characteristics:

Image settings

Width 1299 px Height 919 px

Image quality 95

Oversampling x 1.0

☐ Use white background

☐ Expand frustum if needed

OK Cancel

Actions

Information
- ☐ Item information

Selection
- ☑ Sélection

Actions | Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:20:19
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:502ms
ONF_StepSlicePointCloud (5) - Start computing at 13:20:20
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:208ms

Clear ☐ Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Debug

Steps workflow

4 - Points, Fichier XYB (sample_cloud.xyb)

Result

5 - Segment scene in horizontal slices

Sliced scene

Model manager

Result (4)

Name	1	Type
Result		
Group		Std group
Scène		Point scene
Intensité		Point quint16 attributes
Scanner		Scan position
File header		XYB Header

Item configurator

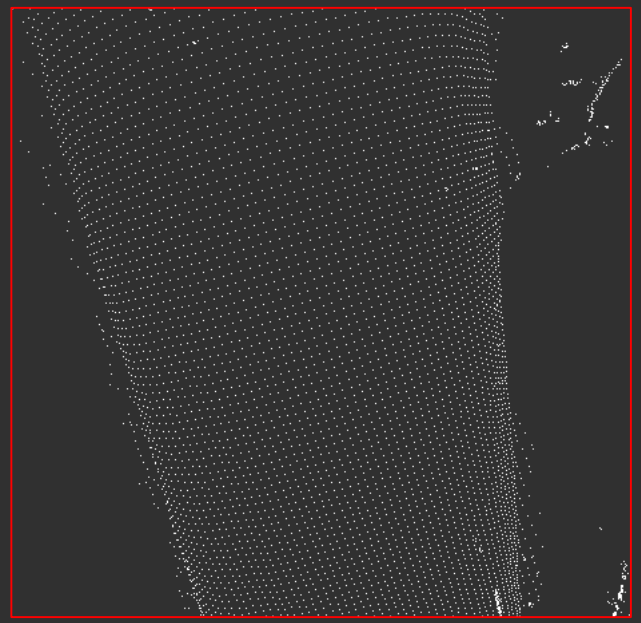
No element in 3D view

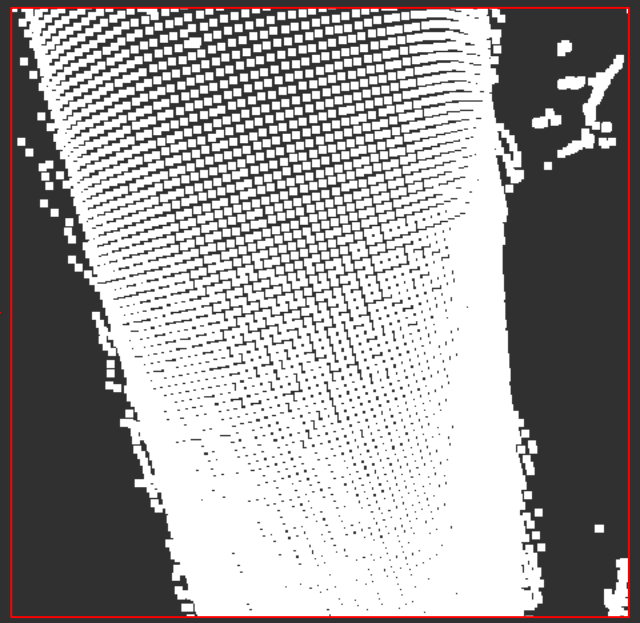
Apply Auto

Sync

Items Points Faces Edges

The 8th and 9th buttons allow to decrease / increase the size of the displayed points





Actions

Information

Item information

Selection

Sélection

Actions Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 14:22:47
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:529ms
ONF_StepSlicePointCloud (5) - Start computing at 14:22:48
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:278ms

Clear Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Debug

Steps workflow

4 - Points, Fichier XYB (sample_cloud.xyb)

Result

5 - Segment scene in horizontal slices

Sliced scene

Model manager

Result (4)

Name	1	Type
Result		
Group		Std group
Scène		Point scene
Intensité		Point quint16 attributes
Scanner		Scan position
File header		XYB Header

Item configurator

No element in 3D view

Apply Auto

Sync

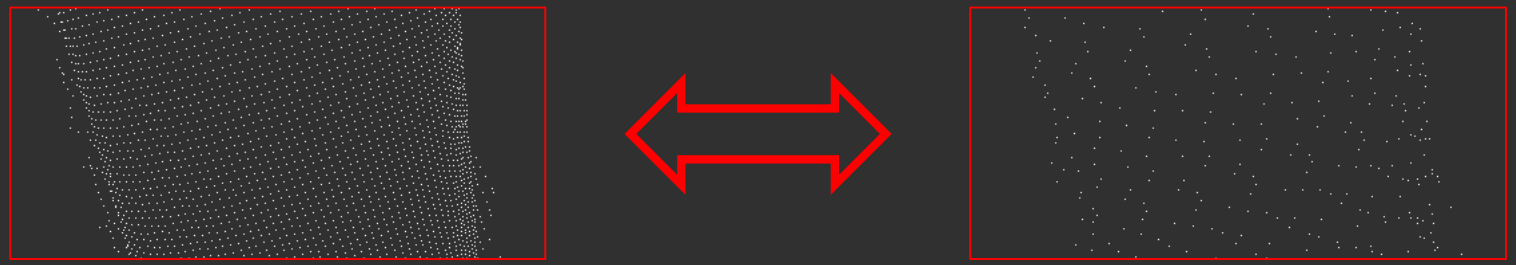
Items Points Faces Edges

The 10th button allows to set the display mode. The button allows looping between 3 display modes:

All points are displayed (accurate)

Only a part of the points is displayed (optimized)

Only a part of the points is displayed during the movements, but when the movements stop, all points are displayed (optimized during movements, accurate when it stops)



Actions

Information

Item information

Selection

Sélection

Actions Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 14:22:47
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:529ms
ONF_StepSlicePointCloud (5) - Start computing at 14:22:48
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:278ms

Clear Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Debug

Steps workflow
- 4 - Points, Fichier XYB (sample_cloud.xyb)
  - Result
- 5 - Segment scene in horizontal slices
  - Sliced scene

Model manager

Result (4)

Name	1	Type
Result		
Group		Std group
Scène		Point scene
Intensité		Point quint16 attributes
Scanner		Scan position
File header		XYB Header

Item configurator

No element in 3D view

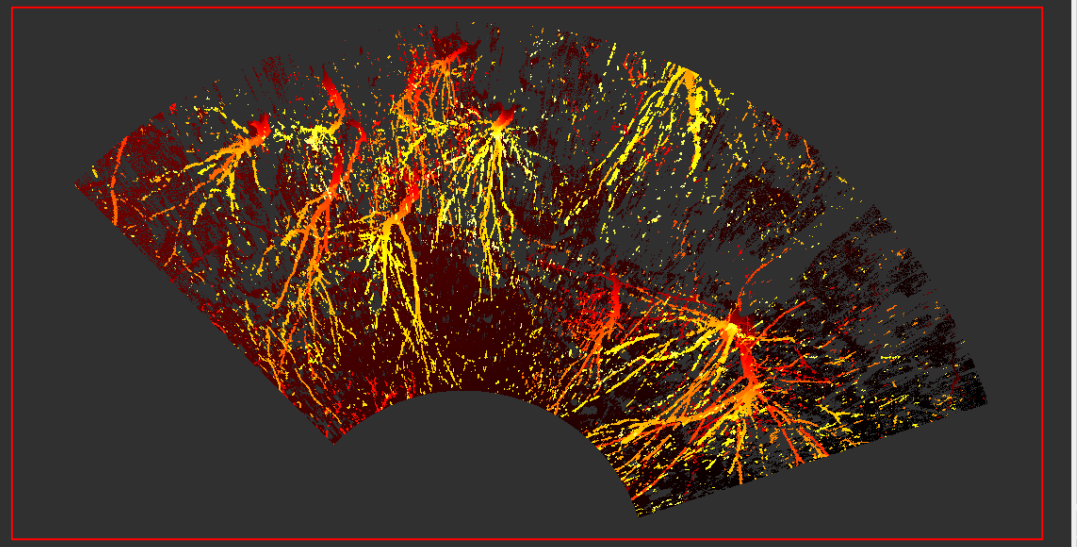
Apply Auto

Sync

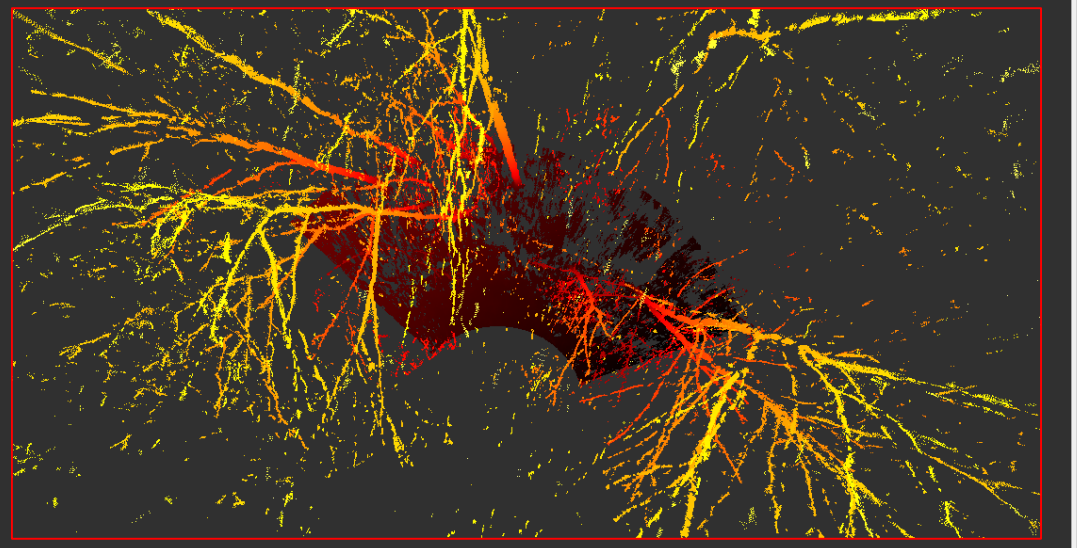
Items Points Faces Edges

The 11th button allows to define the projection mode:

- Orthographic (GIS mode)



- Perspective



Actions

Information
- Item information

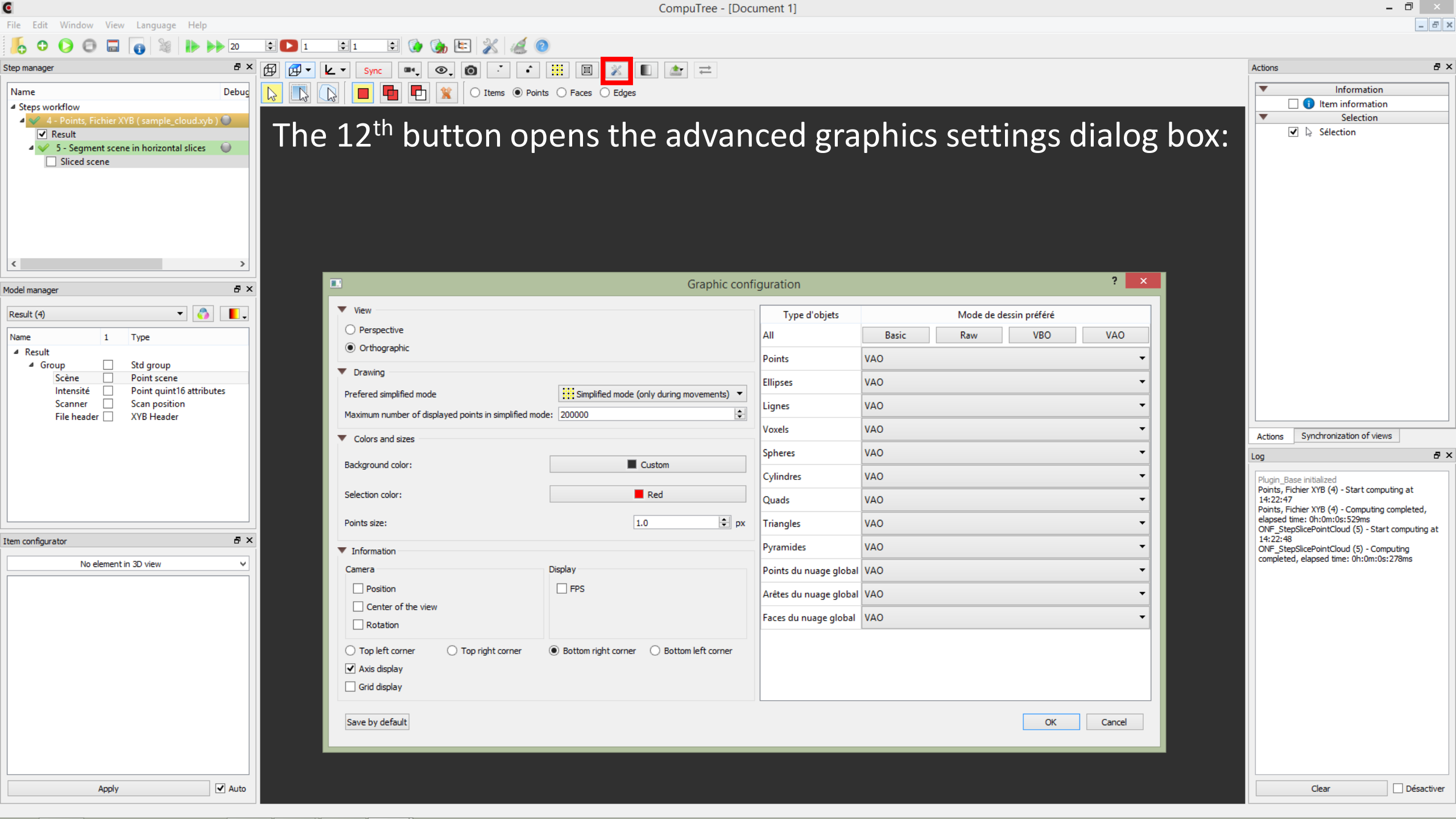
Selection
- Sélection

Actions | Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 14:22:47
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:529ms
ONF_StepSlicePointCloud (5) - Start computing at 14:22:48
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:278ms

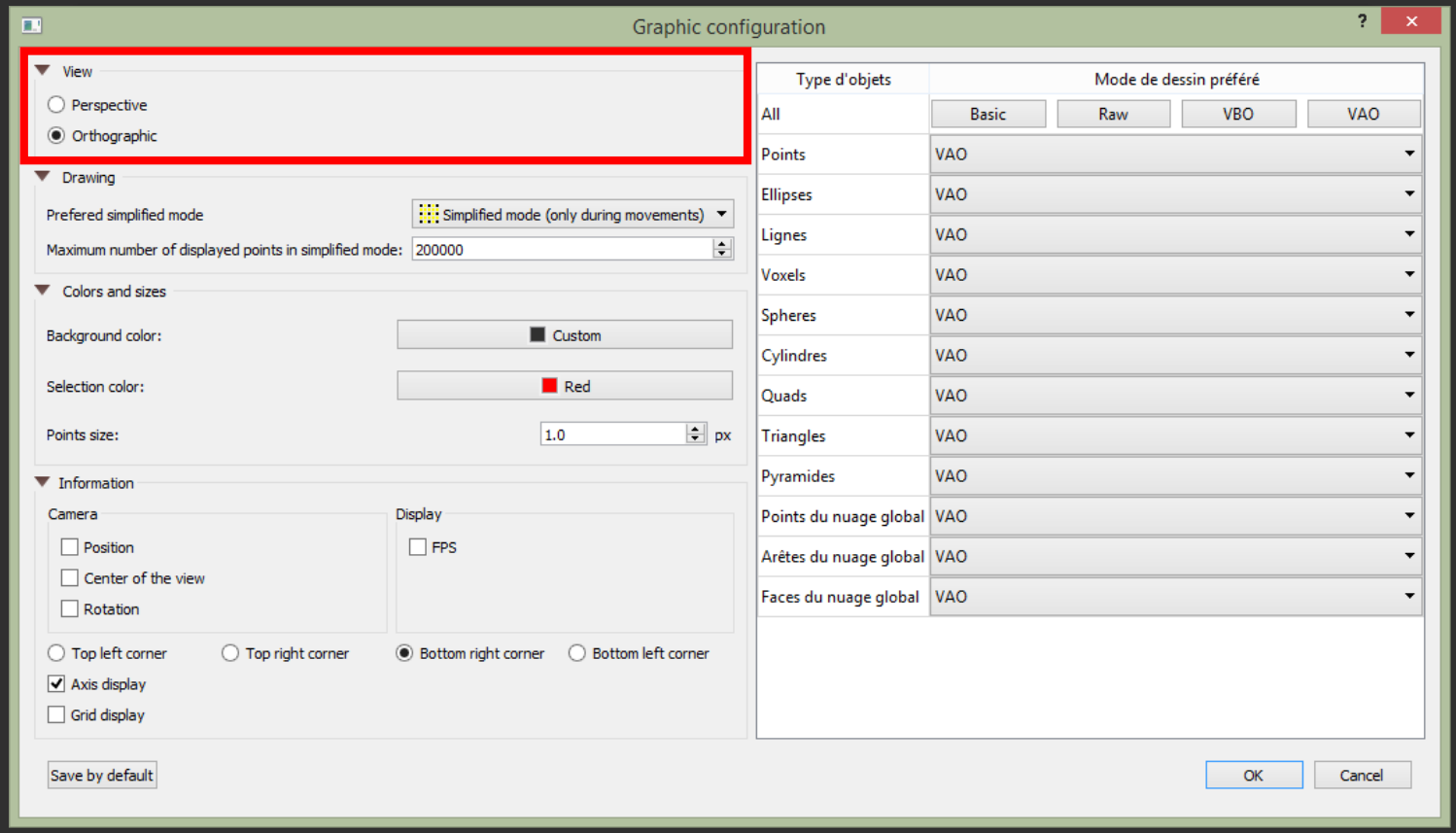
Clear Désactiver


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
Result (4)
Name 1 Type
Result
Group Std group
Scène Point scene
Intensité Point quint16 attributes
Scanner Scan position
File header XYB Header
Item configurator
No element in 3D view
Apply Auto
Sync
Items Points Faces Edges
The 12th button opens the advanced graphics settings dialog box:
Graphic configuration
View
Perspective
Orthographic
Drawing
Prefered simplified mode
Simplified mode (only during movements)
Maximum number of displayed points in simplified mode: 200000
Colors and sizes
Background color:
Custom
Selection color:
Red
Points size:
1.0
px
Information
Camera
Position
Center of the view
Rotation
Display
FPS
Top left corner
Top right corner
Bottom right corner
Bottom left corner
Axis display
Grid display
Save by default
Type d'objets
Mode de dessin préféré
All
Basic
Raw
VBO
VAO
Points
Ellipses
Lignes
Voxels
Spheres
Cylindres
Quads
Triangles
Pyramides
Points du nuage global
Arêtes du nuage global
Faces du nuage global
VAO
OK
Cancel
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 14:22:47
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:529ms
ONF_StepSlicePointCloud (5) - Start computing at 14:22:48
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:278ms
Clear
Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

The 1st part allows to choose between perspective mode and orthographic mode (like the 11th button).



CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Debug

Steps workflow

4 - Points, Fichier XYB (sample_cloud.xyb)

Result

5 - Segment scene in horizontal slices

Sliced scene

Model manager

Result (4)

Name	1	Type
Result		
Group		Std group
Scène		Point scene
Intensité		Point quint16 attributes
Scanner		Scan position
File header		XYB Header

Item configurator

No element in 3D view

Apply Auto

Sync

Items Points Faces Edges

The 2nd part allows to define the display mode, like the 10th button. It also allows to set the number of points to display in simplified mode.

Graphic configuration

View

Perspective

Orthographic

Drawing

Prefered simplified mode: Simplified mode (only during movements)

Maximum number of displayed points in simplified mode: 200000

Colors and sizes

Background color: Custom

Selection color: Red

Points size: 1.0 px

Information

Camera

Position

Center of the view

Rotation

Display

FPS

Top left corner Top right corner Bottom right corner Bottom left corner

Axis display

Grid display

Save by default

Type d'objets	Mode de dessin préféré			
All	Basic	Raw	VBO	VAO
Points	VAO			
Ellipses	VAO			
Lignes	VAO			
Voxels	VAO			
Spheres	VAO			
Cylindres	VAO			
Quads	VAO			
Triangles	VAO			
Pyramides	VAO			
Points du nuage global	VAO			
Arêtes du nuage global	VAO			
Faces du nuage global	VAO			

OK Cancel

Actions

Information

Item information

Selection

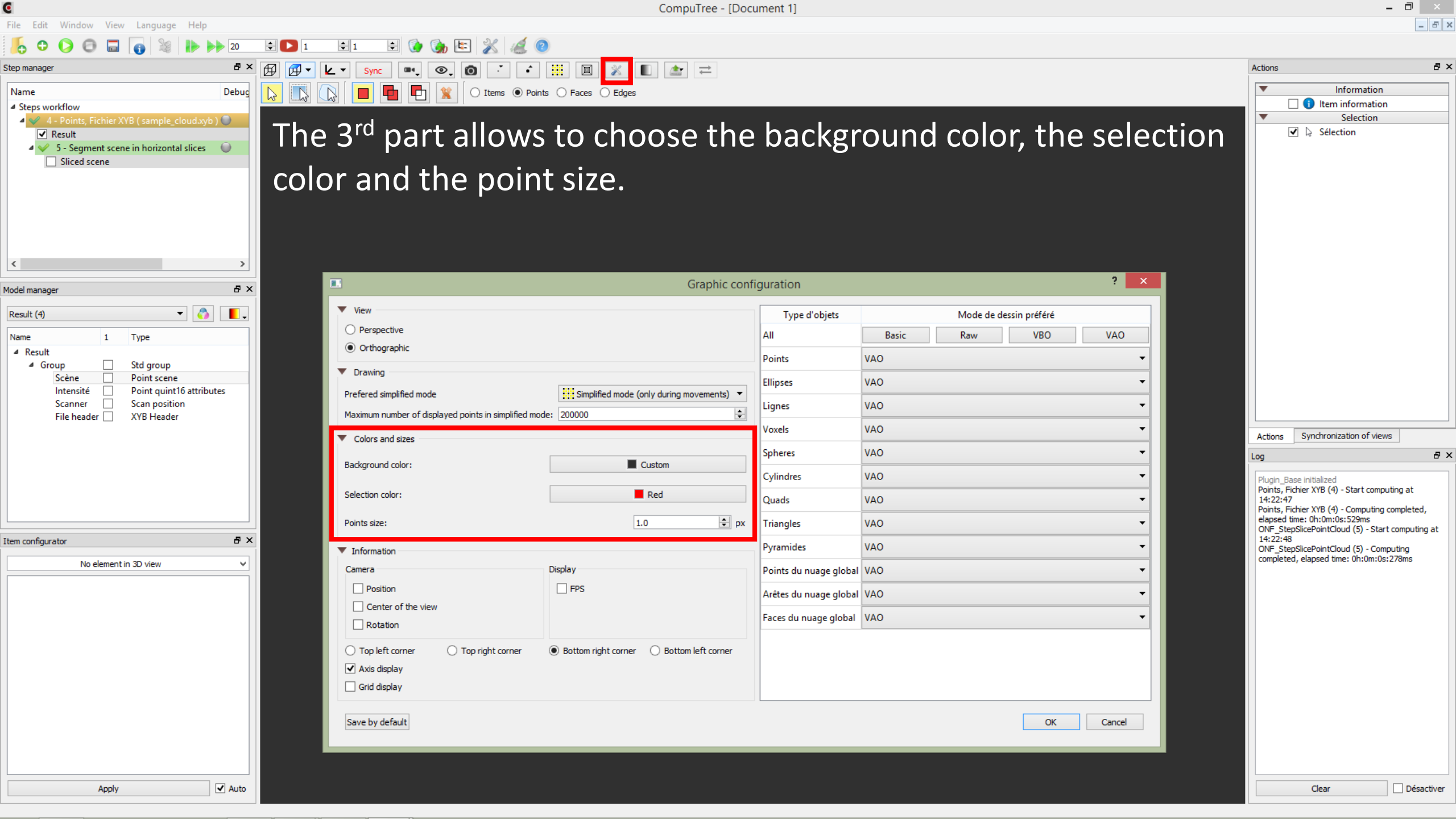
Sélection

Actions Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 14:22:47
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:529ms
ONF_StepSlicePointCloud (5) - Start computing at 14:22:48
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:278ms

Clear Désactiver


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
Result (4)
Name 1 Type
Result
Group Std group
Scène Point scene
Intensité Point quint16 attributes
Scanner Scan position
File header XYB Header
Item configurator
No element in 3D view
Apply Auto
Sync
Items Points Faces Edges
The 3rd part allows to choose the background color, the selection color and the point size.
Graphic configuration
View
Perspective
Orthographic
Drawing
Prefered simplified mode
Simplified mode (only during movements)
Maximum number of displayed points in simplified mode:
200000
Colors and sizes
Background color:
Custom
Selection color:
Red
Points size:
1.0
px
Information
Camera
Position
Center of the view
Rotation
Display
FPS
Top left corner
Top right corner
Bottom right corner
Bottom left corner
Axis display
Grid display
Save by default
Type d'objets
Mode de dessin préféré
All
Basic
Raw
VBO
VAO
Points
Ellipses
Lignes
Voxels
Spheres
Cylindres
Quads
Triangles
Pyramides
Points du nuage global
Arêtes du nuage global
Faces du nuage global
OK
Cancel
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 14:22:47
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:529ms
ONF_StepSlicePointCloud (5) - Start computing at 14:22:48
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:278ms
Clear
Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Debug

Steps workflow
- 4 - Points, Fichier XYB (sample_cloud.xyb)
  - Result
- 5 - Segment scene in horizontal slices
  - Sliced scene

Model manager

Result (4)

Name	1	Type
Result		
Group		Std group
Scène		Point scene
Intensité		Point quint16 attributes
Scanner		Scan position
File header		XYB Header

Item configurator

No element in 3D view

Apply Auto

Sync

Items Points Faces Edges

The 4th part allows to display, at a chosen location, the information on the camera, as well as to show / hide the axes at coordinates (0,0,0), as well as a horizontal grid.

Graphic configuration

View
- Perspective
- Orthographic

Drawing
- Prefered simplified mode: Simplified mode (only during movements)
- Maximum number of displayed points in simplified mode: 200000

Colors and sizes
- Background color: Custom
- Selection color: Red
- Points size: 1.0 px

Information
- Camera: Position, Center of the view, Rotation
- Display: FPS
- Top left corner, Top right corner, Bottom right corner, Bottom left corner
- Axis display
- Grid display

Type d'objets	Mode de dessin préféré			
All	Basic	Raw	VBO	VAO
Points	VAO			
Ellipses	VAO			
Lignes	VAO			
Voxels	VAO			
Spheres	VAO			
Cylindres	VAO			
Quads	VAO			
Triangles	VAO			
Pyramides	VAO			
Points du nuage global	VAO			
Arêtes du nuage global	VAO			
Faces du nuage global	VAO			

Save by default OK Cancel

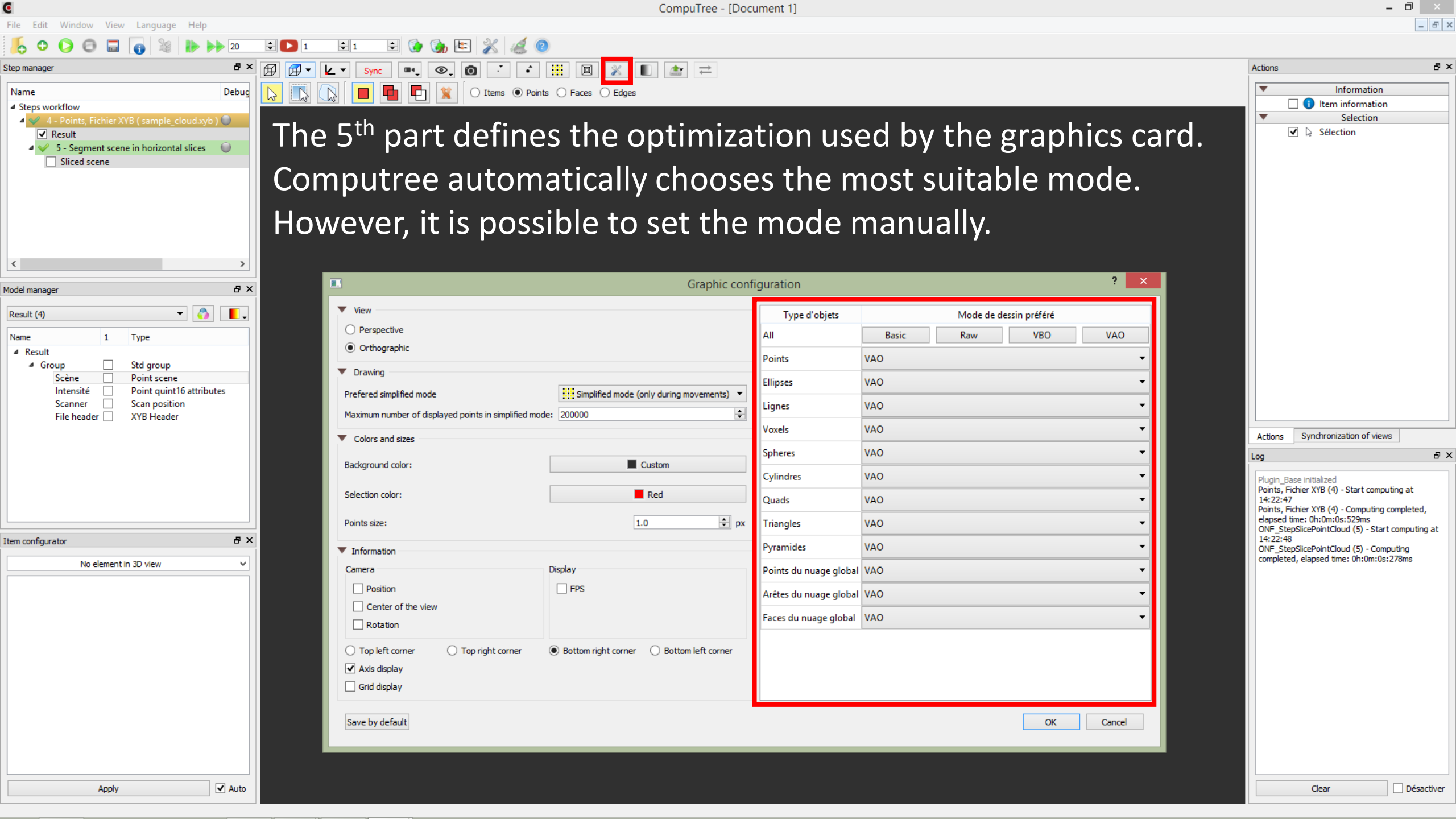
Actions
- Information
  - Item information
- Selection
  - Sélection

Actions | Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 14:22:47
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:529ms
ONF_StepSlicePointCloud (5) - Start computing at 14:22:48
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:278ms

Clear Désactiver


CompuTree - [Document 1]
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Step manager
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Result (4)
Name 1 Type
Result
Group Std group
Scène Point scene
Intensité Point quint16 attributes
Scanner Scan position
File header XYB Header
Item configurator
No element in 3D view
Apply Auto
Sync
Items Points Faces Edges
The 5th part defines the optimization used by the graphics card.
Computree automatically chooses the most suitable mode.
However, it is possible to set the mode manually.
Graphic configuration
View
Perspective
Orthographic
Drawing
Prefered simplified mode
Simplified mode (only during movements)
Maximum number of displayed points in simplified mode: 200000
Colors and sizes
Background color:
Custom
Selection color:
Red
Points size:
1.0
px
Information
Camera
Position
Center of the view
Rotation
Display
FPS
Top left corner
Top right corner
Bottom right corner
Bottom left corner
Axis display
Grid display
Save by default
Type d'objets
Mode de dessin préféré
All
Basic
Raw
VBO
VAO
Points
Ellipses
Lignes
Voxels
Spheres
Cylindres
Quads
Triangles
Pyramides
Points du nuage global
Arêtes du nuage global
Faces du nuage global
VAO
OK
Cancel
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 14:22:47
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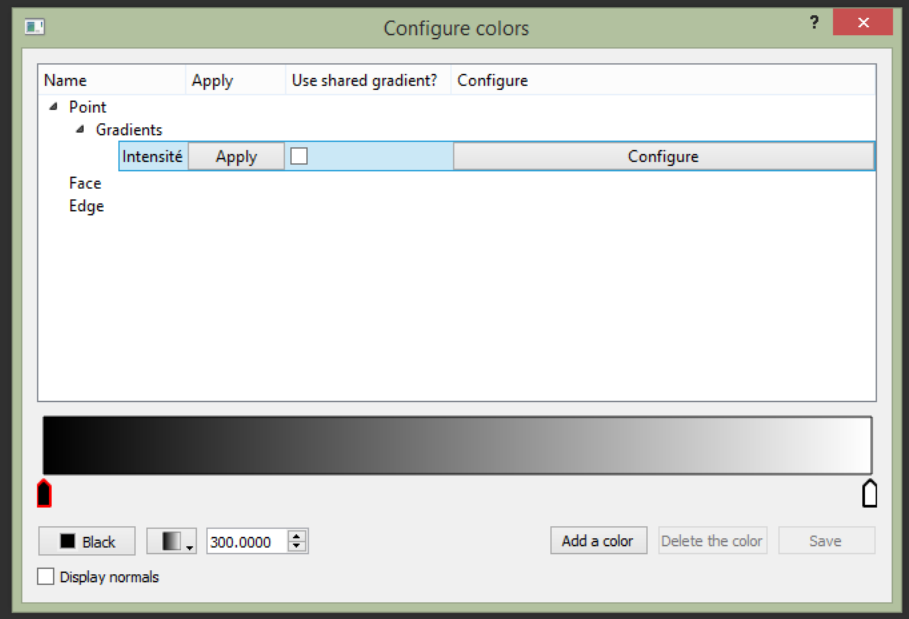
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:278ms
Clear
Désactiver

The 13th button allows to colorize points / faces according to the available attributes.

You should select the desired attribute from the list.

The "Apply" button applies the colorization for this attribute.



CompuTree - [Document 1]

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Step manager

Name Debug

Steps workflow

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Result

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Model manager

Result (4)

Name	1	Type
Result		
Group		Std group
Scène		Point scene
Intensité		Point quint16 attributes
Scanner		Scan position
File header		XYB Header

Item configurator

No element in 3D view

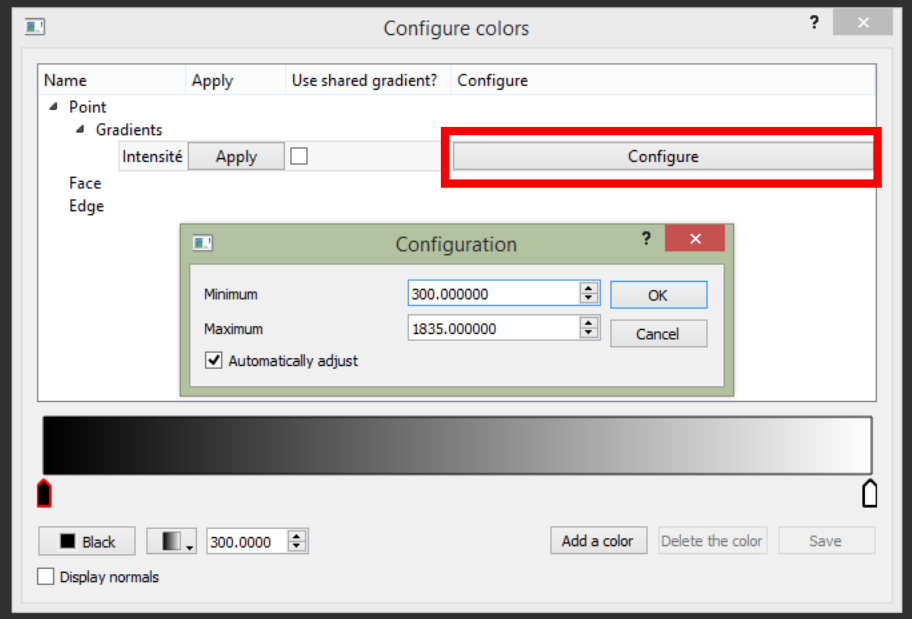
Name Value

Apply Auto

Sync

Items Points Faces Edges

The configure button is used to limit the value range on which the gradient is mapped



Actions

Information

Item information

Selection

Sélection

Actions Synchronization of views

Log

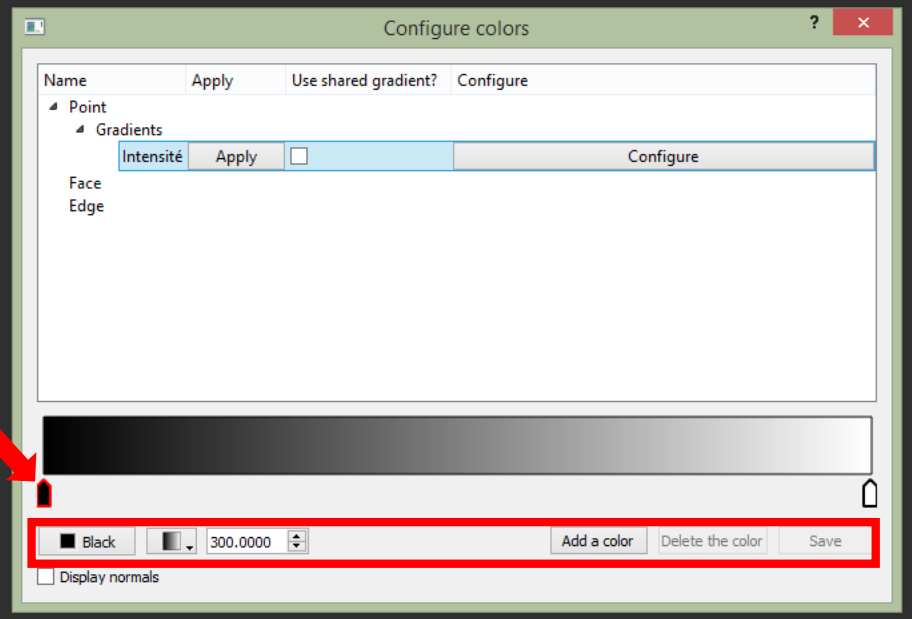
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 16:27:57
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:510ms
ONF_StepSlicePointCloud (5) - Start computing at 16:28:06
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:232ms

Clear Désactiver

The lower part allows to choose / modify the used gradient:

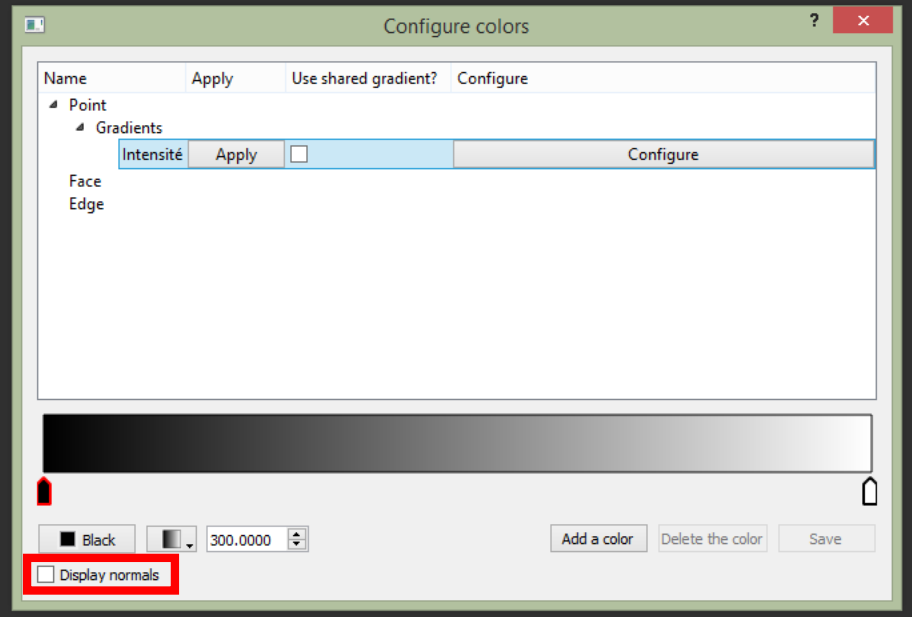
- A button allows to choose an existing gradient
- It is possible to add a color: «Add a color»
- It is possible to delete a color: "Delete the color"
- By selecting one of the color markers, one can:
  - Change color (colored button)
  - Specify the attribute value for this marker position

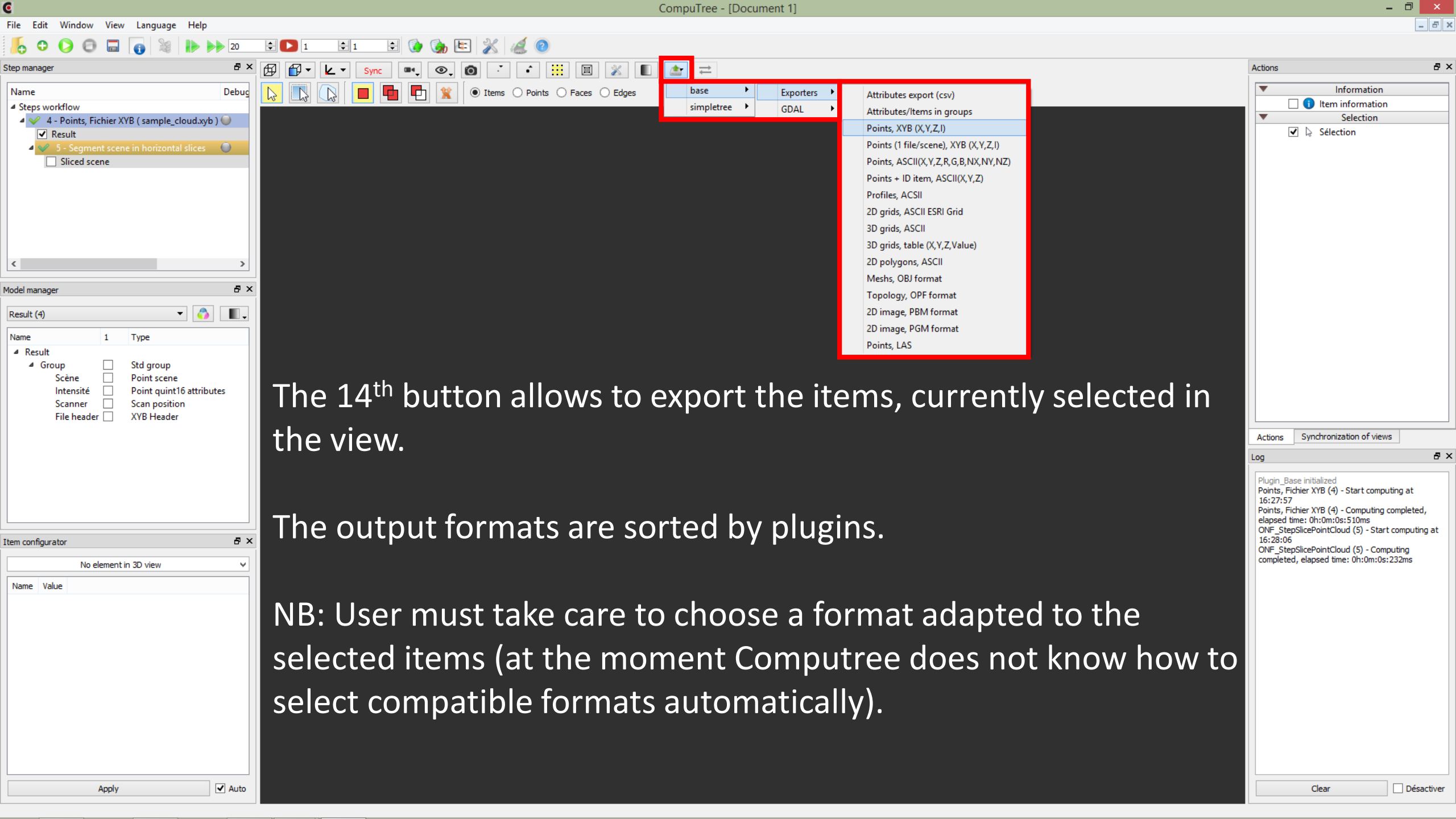
Color marker



The "Display Normals" check box enables / disables the display of normals as vectors

NB: for this it is necessary that normals have been calculated by one of the steps

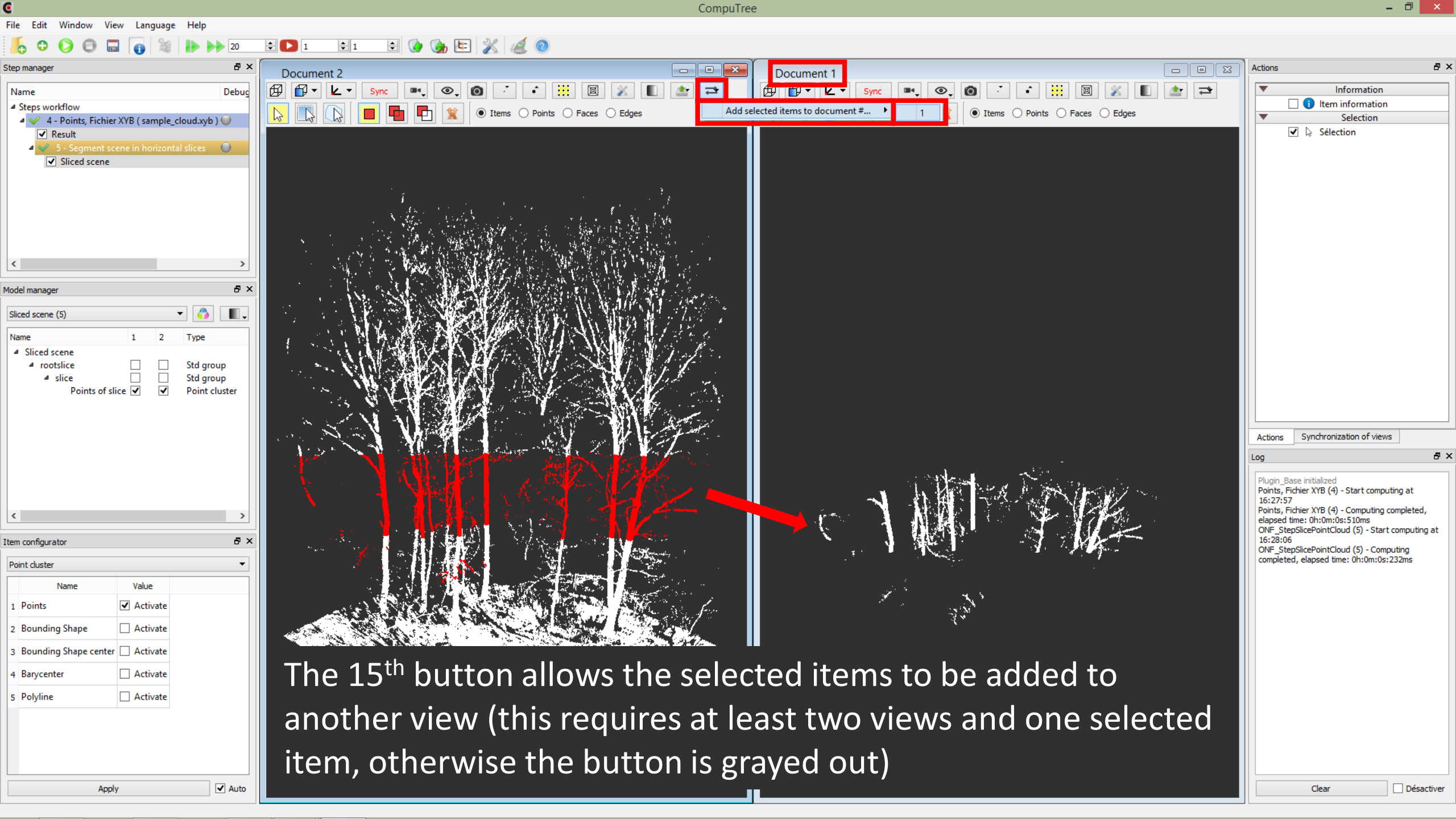




The 14th button allows to export the items, currently selected in the view.

The output formats are sorted by plugins.

NB: User must take care to choose a format adapted to the selected items (at the moment Computree does not know how to select compatible formats automatically).


CompuTree
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Step manager
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Model manager
Sliced scene (5)
Name 1 2 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point cluster
Item configurator
Point cluster
Name Value
1 Points Activate
2 Bounding Shape Activate
3 Bounding Shape center Activate
4 Barycenter Activate
5 Polyline Activate
Apply Auto
Document 2
Sync
Items Points Faces Edges
Document 1
Add selected items to document #...
1
Actions
Information
Item information
Selection
Sélection
Actions Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 16:27:57
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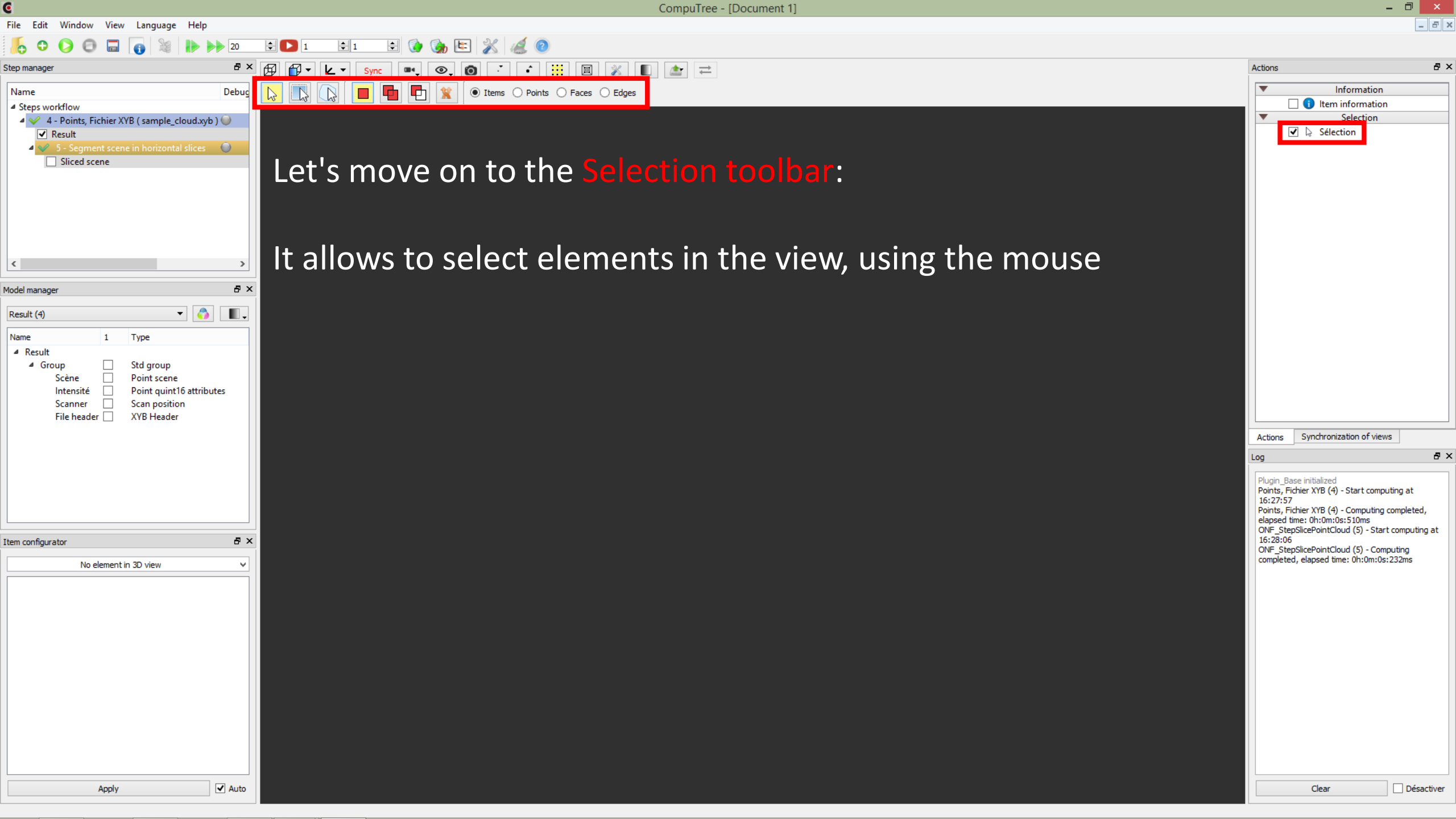
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:232ms
Clear Désactiver
The 15th button allows the selected items to be added to another view (this requires at least two views and one selected item, otherwise the button is grayed out)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Step manager
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Sliced scene
Sync
Items Points Faces Edges
Let's move on to the Selection toolbar:
It allows to select elements in the view, using the mouse
Actions
Information
Item information
Selection
Sélection
Actions Synchronization of views
Model manager
Result (4)
Name 1 Type
Result
Group Std group
Scène Point scene
Intensité Point quint16 attributes
Scanner Scan position
File header XYB Header
Item configurator
No element in 3D view
Apply Auto
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 16:27:57
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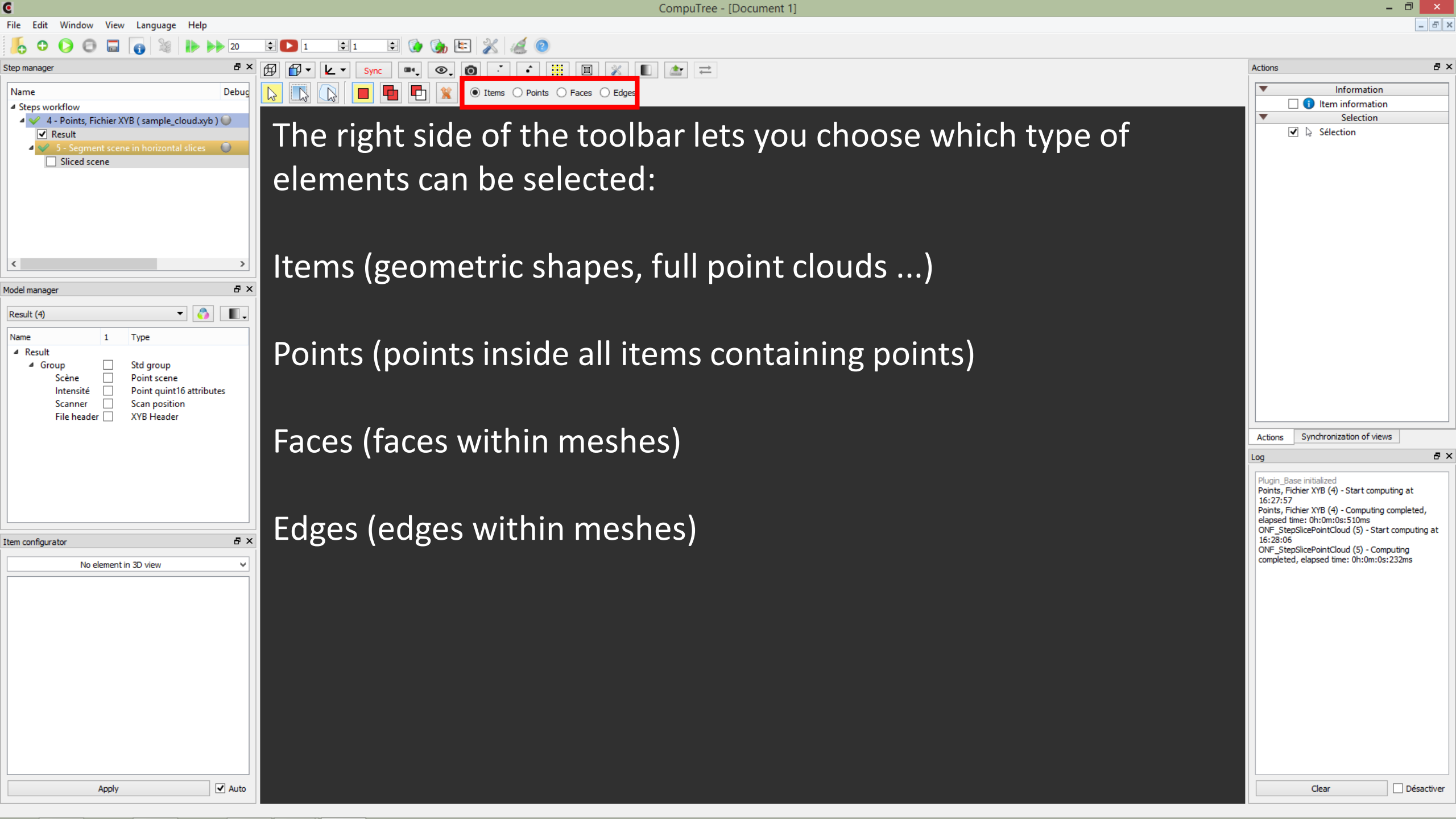
Clear Désactiver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Step manager
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Model manager
Result (4)
Name 1 Type
Result
Group Std group
Scène Point scene
Intensité Point quint16 attributes
Scanner Scan position
File header XYB Header
Item configurator
No element in 3D view
Apply
Auto
Sync
Items Points Faces Edges
The right side of the toolbar lets you choose which type of elements can be selected:
Items (geometric shapes, full point clouds ...)
Points (points inside all items containing points)
Faces (faces within meshes)
Edges (edges within meshes)
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
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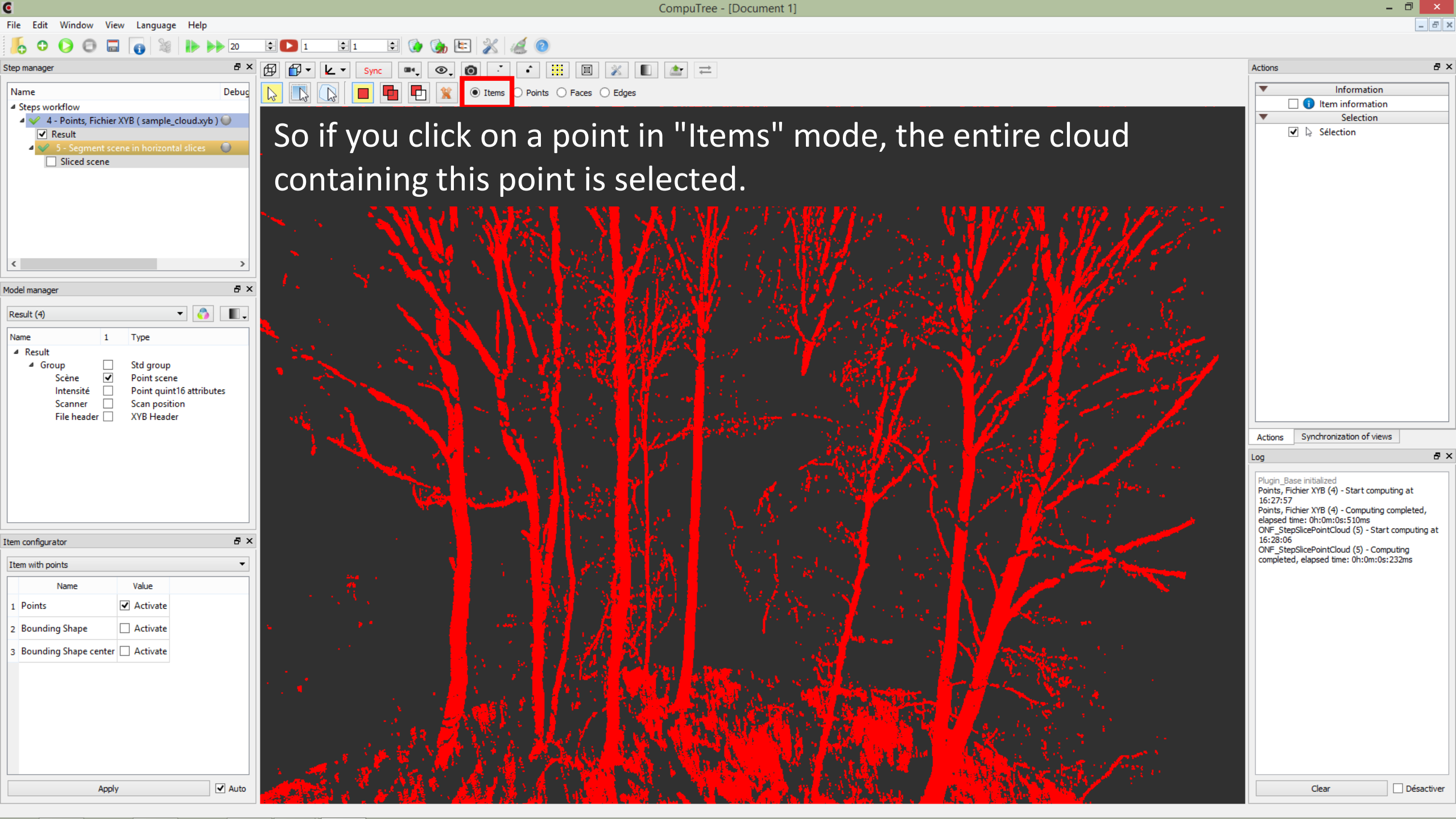
Clear
Désactiver


CompuTree - [Document 1]
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Step manager
Name Debug
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Model manager
Result (4)
Name 1 Type
Result
Group Std group
Scène Point scene
Intensité Point quint16 attributes
Scanner Scan position
File header XYB Header
Item configurator
Item with points
Name Value
1 Points Activate
2 Bounding Shape Activate
3 Bounding Shape center Activate
Apply Auto
Sync
Items Points Faces Edges
So if you click on a point in "Items" mode, the entire cloud containing this point is selected.
Actions
Information
Item information
Selection
Sélection
Actions Synchronization of views
Log
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ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:232ms
Clear Désactiver

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Step manager

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Model manager

Result (4)

Name	1	Type
Result		
Group		Std group
Scène		Point scene
Intensité		Point quint16 attributes
Scanner		Scan position
File header		XYB Header

Item configurator

Item with points

	Name	Value
1	Points	Activate
2	Bounding Shape	Activate
3	Bounding Shape center	Activate

Apply Auto

Sync Items Points Faces Edges

The same click in "Points" mode only selects the considered point.

Actions

Information
- Item information

Selection
- Sélection

Actions Synchronization of views

Log

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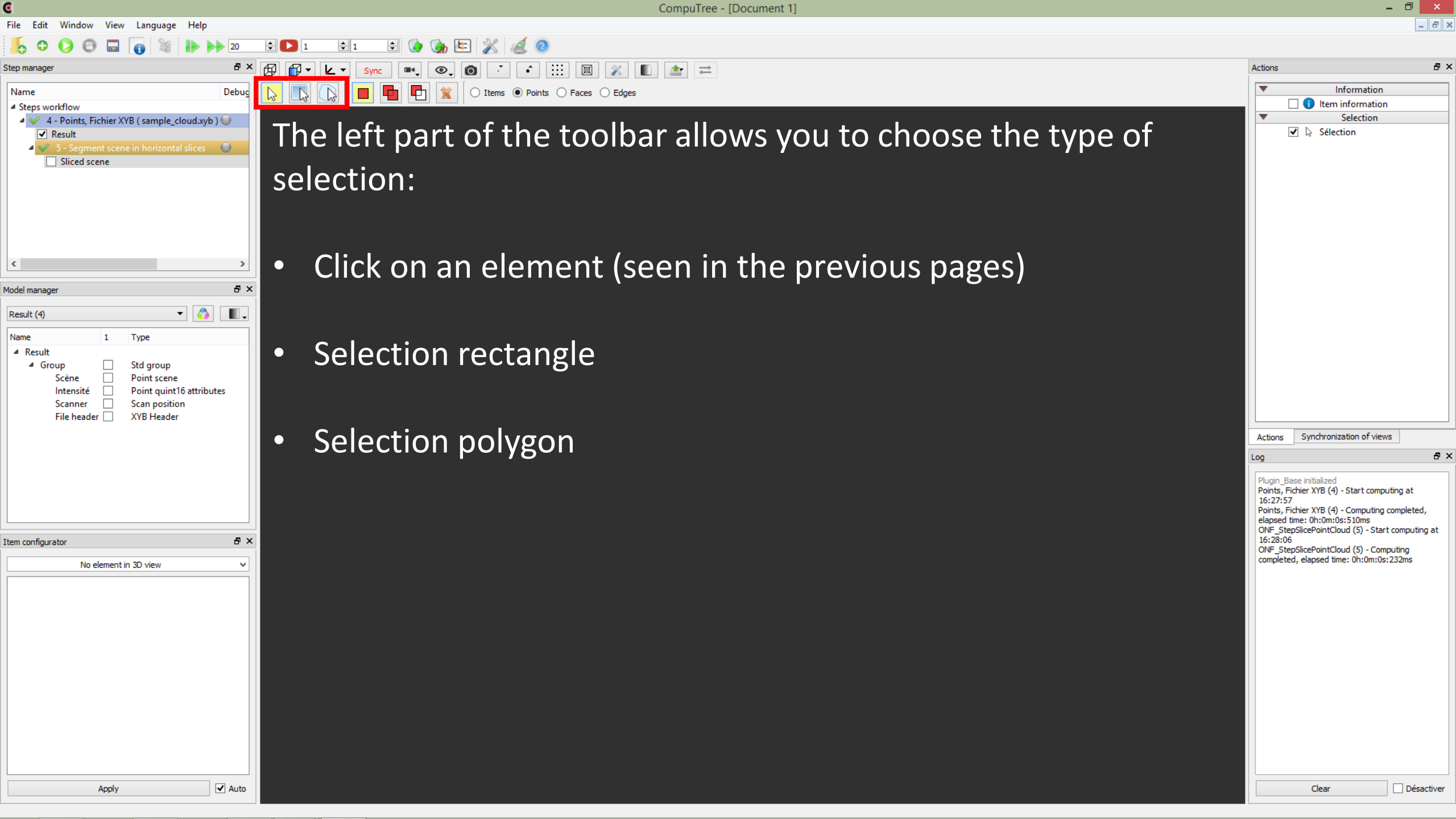
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:232ms

Clear Désactiver


CompuTree - [Document 1]
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Step manager
Name Debug
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
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Sliced scene
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Items Points Faces Edges
Model manager
Result (4)
Name 1 Type
Result
Group Std group
Scène Point scene
Intensité Point quint16 attributes
Scanner Scan position
File header XYB Header
Item configurator
No element in 3D view
Apply Auto
The left part of the toolbar allows you to choose the type of selection:
Click on an element (seen in the previous pages)
Selection rectangle
Selection polygon
Actions
Information
Item information
Selection
Sélection
Actions Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 16:27:57
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:510ms
ONF_StepSlicePointCloud (5) - Start computing at 16:28:06
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:232ms
Clear Désactiver

CompuTree - [Document 1]

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Step manager

Name Debug

Steps workflow
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  - Result
- 5 - Segment scene in horizontal slices
  - Sliced scene

Model manager

Result (4)

Name	1	Type
Result		
Group	☐	Std group
Scène	☑	Point scene
Intensité	☐	Point quint16 attributes
Scanner	☐	Scan position
File header	☐	XYB Header

Item configurator

Item with points

	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

In selection rectangle mode:

- Left click to define the top left corner
- Move the mouse while holding down
- By releasing, it gives a rectangle

Actions

Information
- ☐ Item information

Selection
- ☑ Sélection

Actions | Synchronization of views

Log

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Clear ☐ Désactiver

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Step manager

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Steps workflow
- 4 - Points, Fichier XYB (sample_cloud.xyb)
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Model manager

Result (4)

Name	1	Type
Result		
Group	☐	Std group
Scène	☑	Point scene
Intensité	☐	Point quint16 attributes
Scanner	☐	Scan position
File header	☐	XYB Header

Item configurator

Item with points

	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

This rectangle can be moved (left click maintained) or resized (with corners).

The "ENTER" key selects the points of the rectangle:

Actions

- Information
  - ☐ Item information
- Selection
  - ☑ Sélection

Actions | Synchronization of views

Log

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Step manager

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4 - Points, Fichier XYB (sample_cloud.xyb)	
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Model manager

Result (4)

Name	1	Type
Result		
Group		Std group
Scène		Point scene
Intensité		Point quint16 attributes
Scanner		Scan position
File header		XYB Header

Item configurator

Item with points

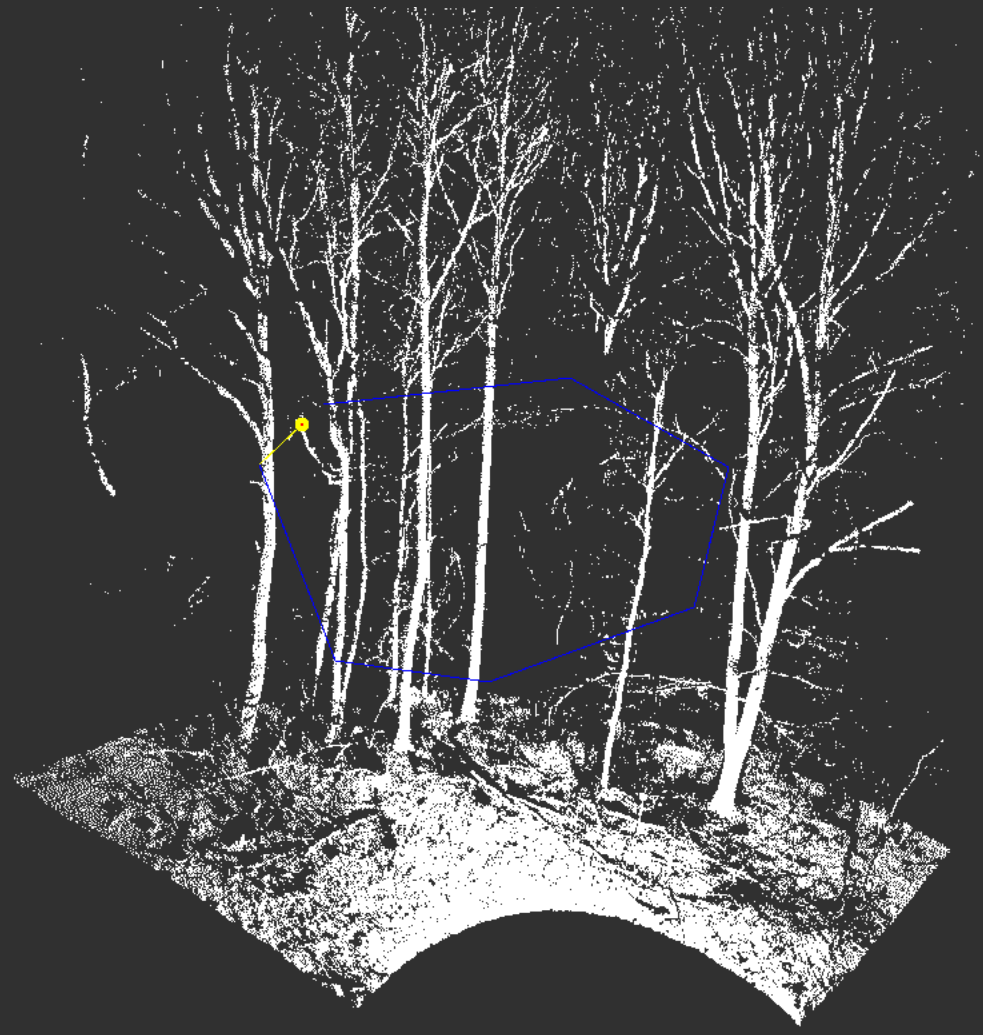
	Name	Value
1	Points	Activate
2	Bounding Shape	Activate
3	Bounding Shape center	Activate

Apply Auto

Sync Items Points Faces Edges

In polygon selection mode:

1. Left click to define each vertex of the polygon



Actions

Information
Item information
Selection
Sélection

Actions Synchronization of views

Log

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Result (4)

Name	1	Type
Result		
Group	☐	Std group
Scène	☑	Point scene
Intensité	☐	Point quint16 attributes
Scanner	☐	Scan position
File header	☐	XYB Header

Item configurator

Item with points

	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate

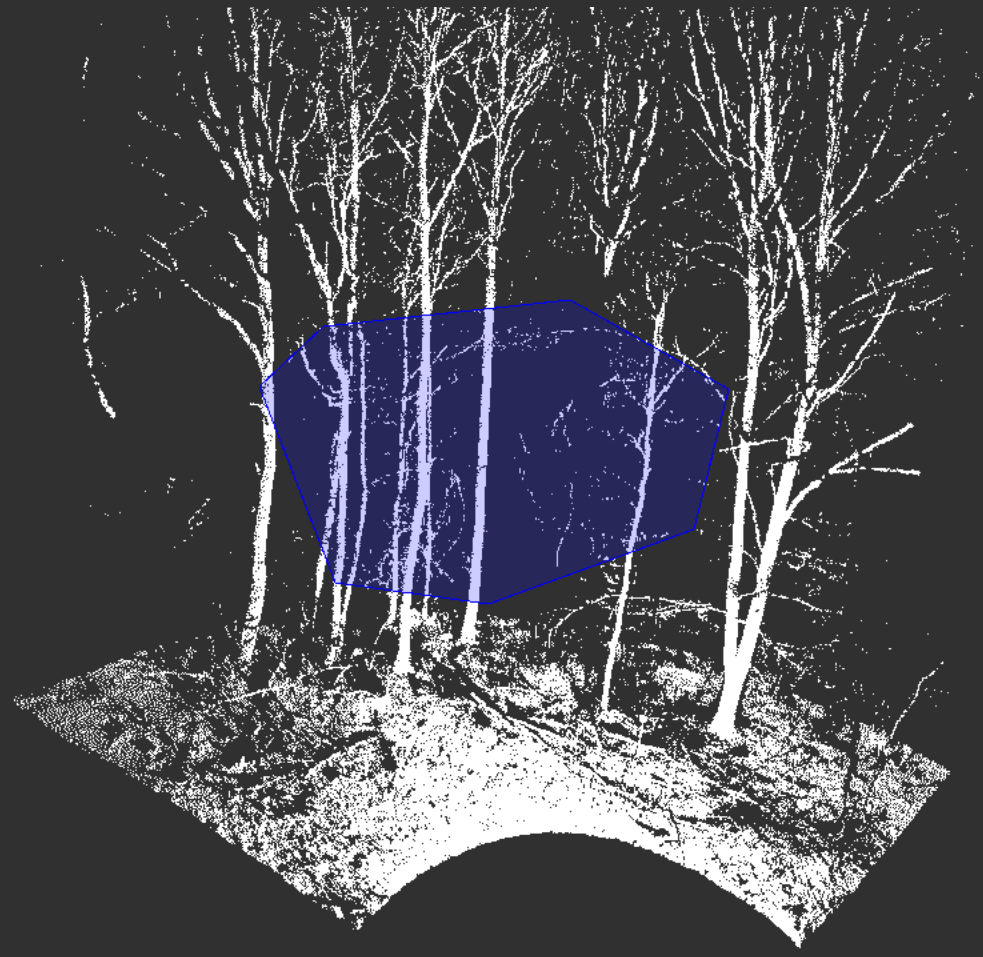
Apply ☑ Auto

Sync

Items Points Faces Edges

In polygon selection mode:

1. Left click to define each vertex of the polygon
2. We validate (ENTER) a first time to close the polygon



Actions

Information
- ☐ Item information

Selection
- ☑ Sélection

Actions | Synchronization of views

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Result (4)

Name	1	Type
Result		
Group	☐	Std group
Scène	☑	Point scene
Intensité	☐	Point quint16 attributes
Scanner	☐	Scan position
File header	☐	XYB Header

Item configurator

Item with points

	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

In polygon selection mode:

1. Left click to define each vertex of the polygon
2. We validate (ENTER) a first time to close the polygon
3. We validate (ENTER) a second time to select the points

NB: in step 2, one can move or modify the vertices of the polygon, as for rectangle selection mode

Actions

- Information
  - Item information
- Selection
  - Sélection

Actions | Synchronization of views

Log

Plugin_Base initialized
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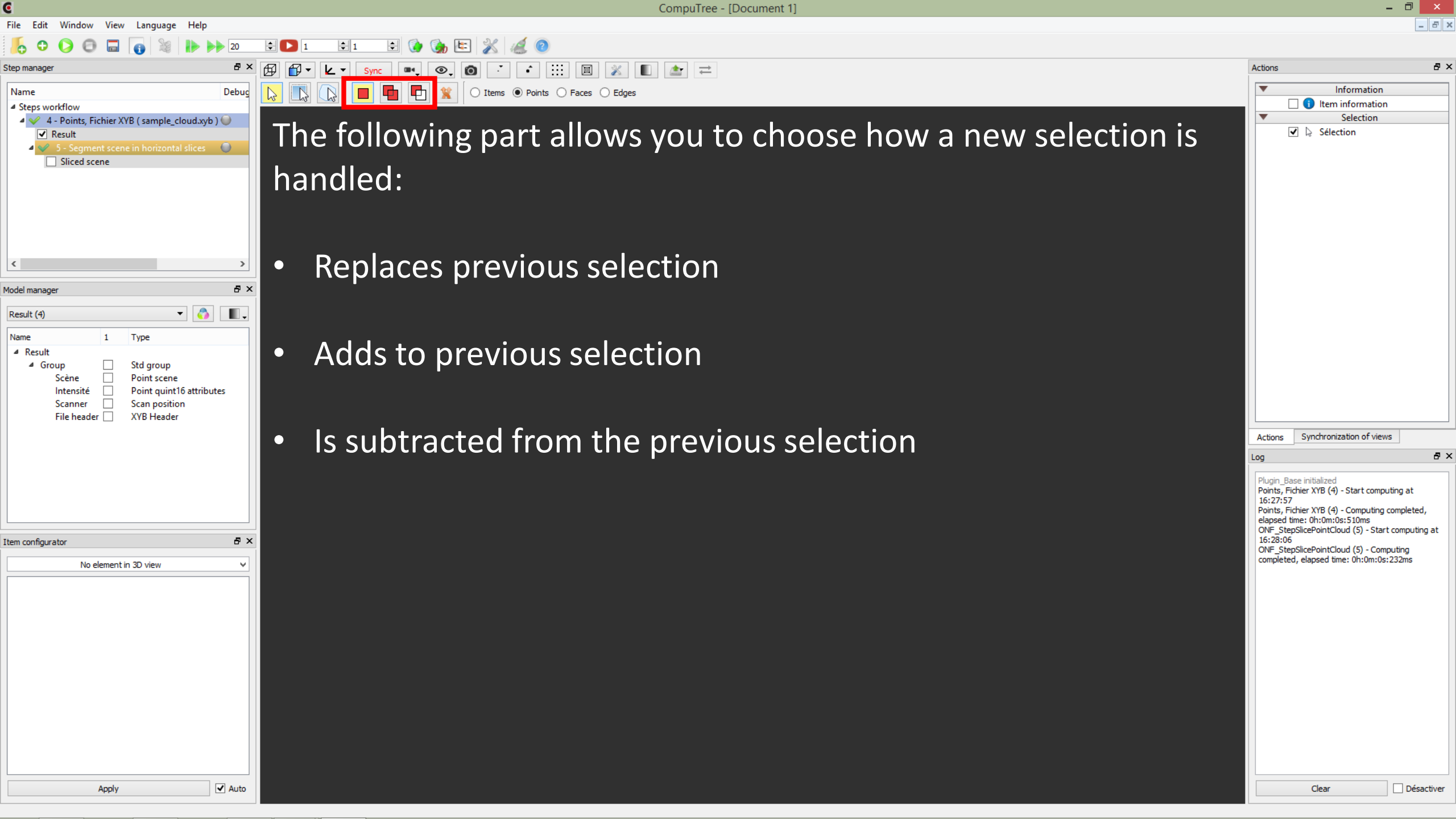
Clear ☐ Désactiver


CompuTree - [Document 1]
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Step manager
Name Debug
Steps workflow
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5 - Segment scene in horizontal slices
Sliced scene
Model manager
Result (4)
Name 1 Type
Result
Group Std group
Scène Point scene
Intensité Point quint16 attributes
Scanner Scan position
File header XYB Header
Item configurator
No element in 3D view
Apply Auto
Sync
Items Points Faces Edges
The following part allows you to choose how a new selection is handled:
• Replaces previous selection
• Adds to previous selection
• Is subtracted from the previous selection
Actions
Information
Item information
Selection
Sélection
Actions Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 16:27:57
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:510ms
ONF_StepSlicePointCloud (5) - Start computing at 16:28:06
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:232ms
Clear Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name Debug

Steps workflow
- 4 - Points, Fichier XYB (sample_cloud.xyb)
  - Result
  - 5 - Segment scene in horizontal slices
    - Sliced scene

Model manager

Result (4)

Name	1	Type
Result		
Group	☐	Std group
Scène	☑	Point scene
Intensité	☐	Point quint16 attributes
Scanner	☐	Scan position
File header	☐	XYB Header

Item configurator

Item with points

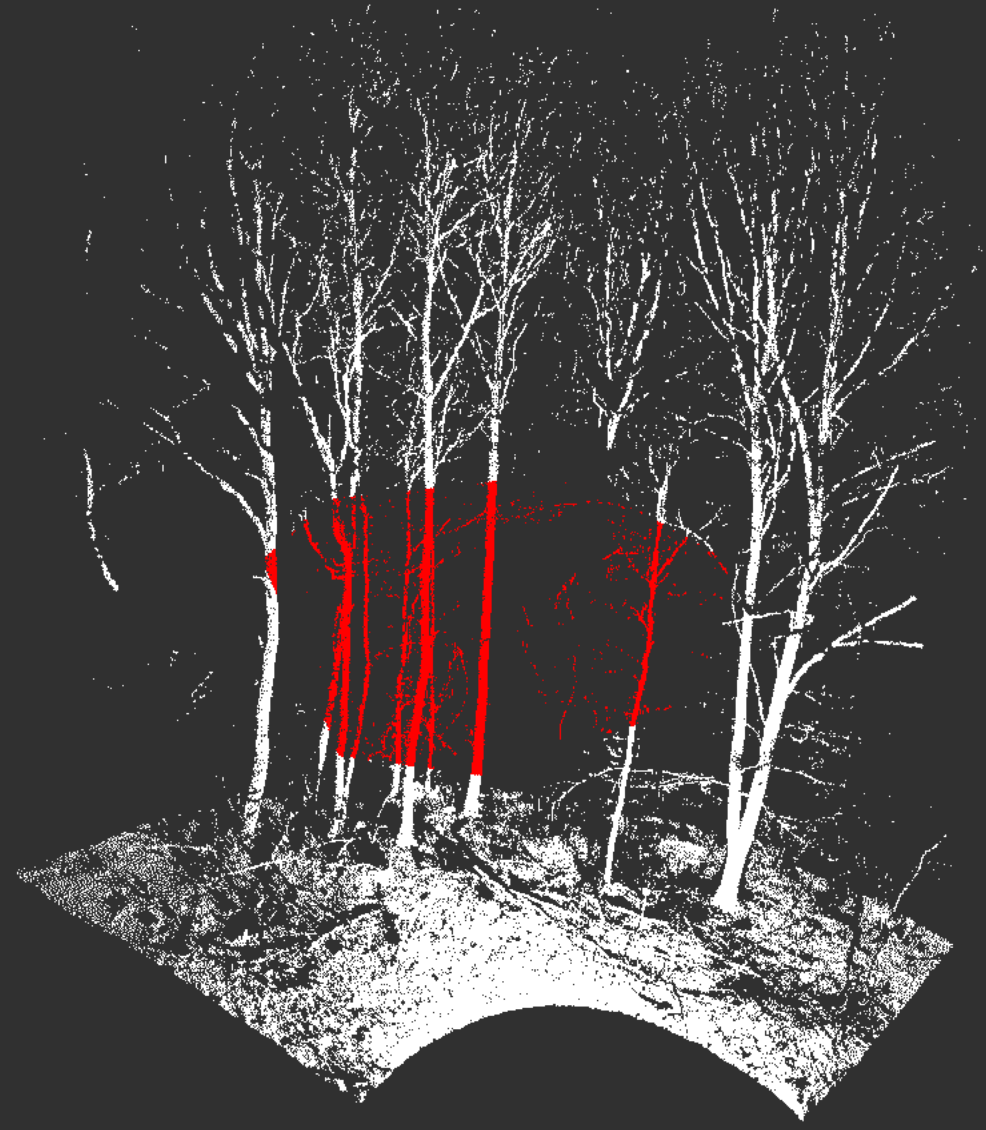
	Name	Value
1	Points	☑ Activate
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

This button is used to invert the selection



Actions

Information
- ☐ Item information

Selection
- ☑ Sélection

Actions | Synchronization of views

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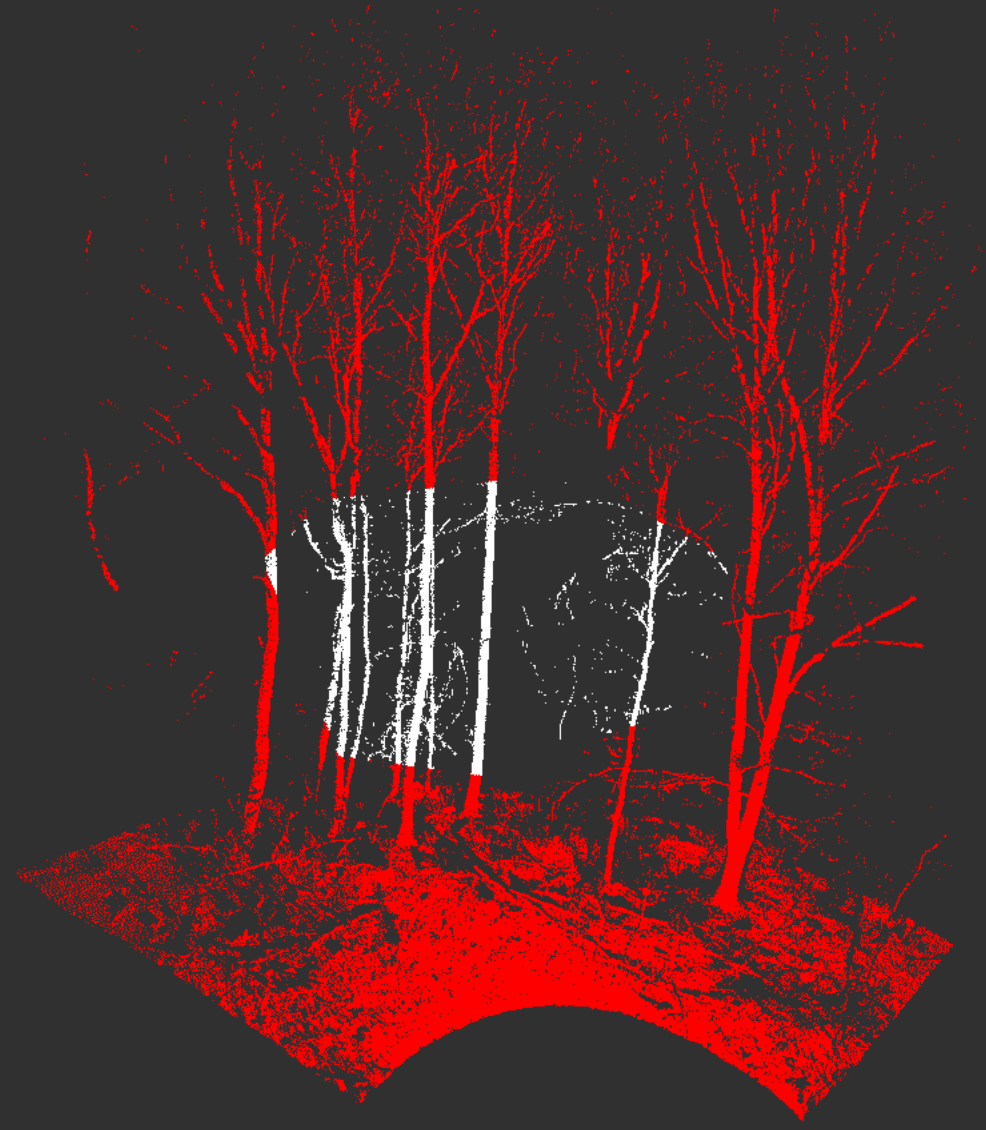
2	Bounding Shape	☐ Activate
3	Bounding Shape center	☐ Activate

Apply ☑ Auto

Sync

Items Points Faces Edges

Here's what it does in Points mode:



Actions

Information
- ☐ Item information

Selection
- ☑ Sélection

Actions | Synchronization of views

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Clear ☐ Désactiver