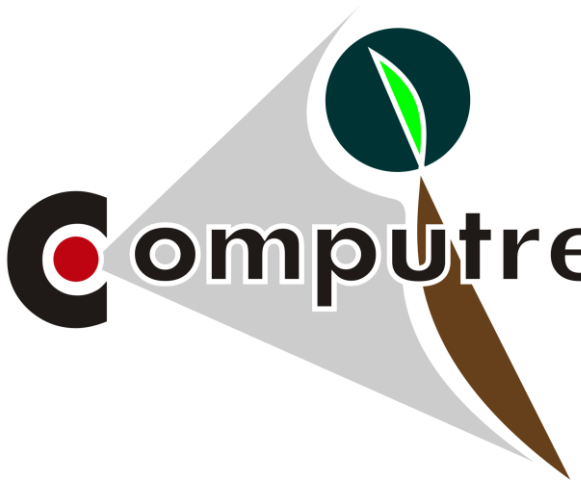
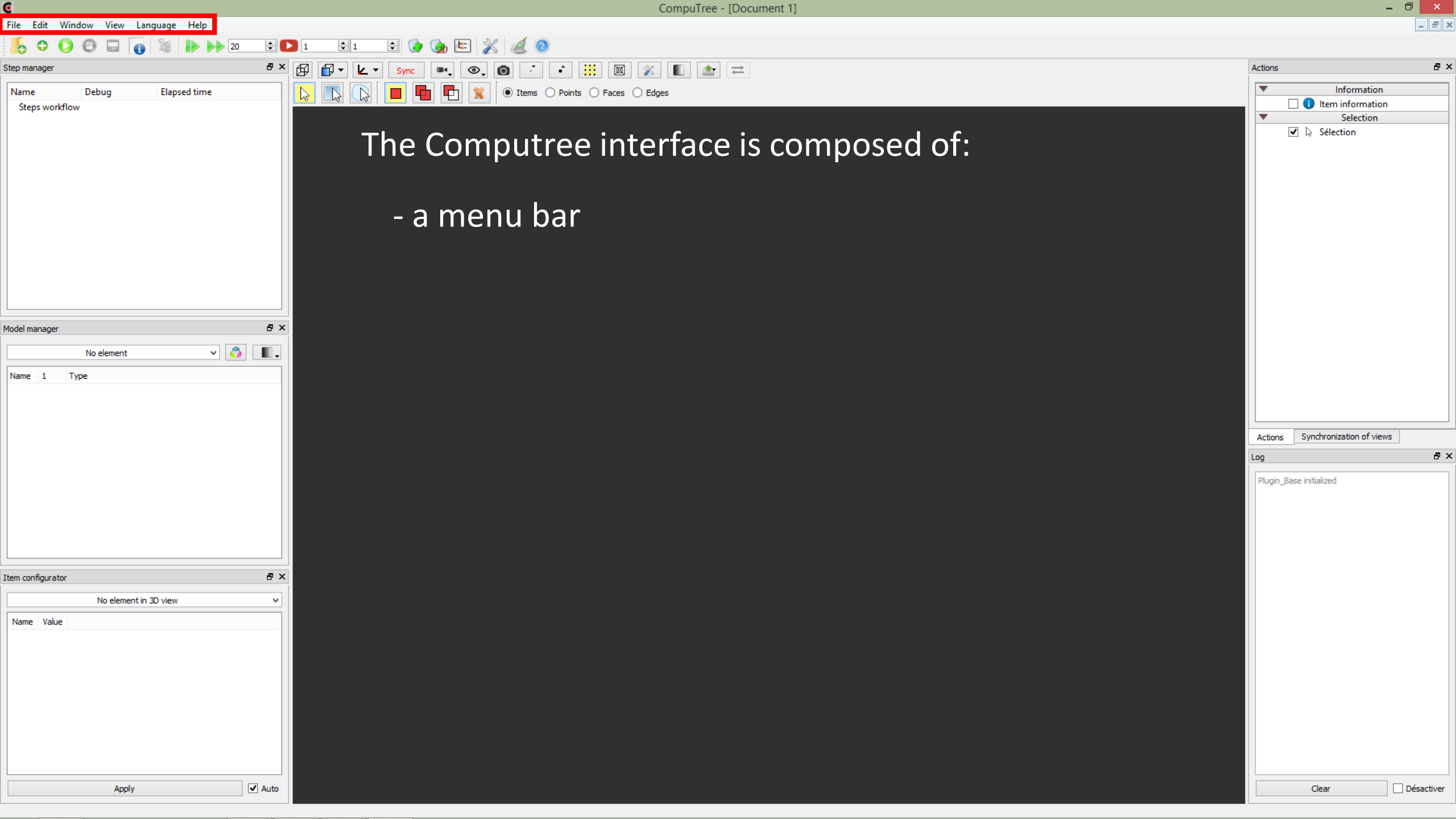
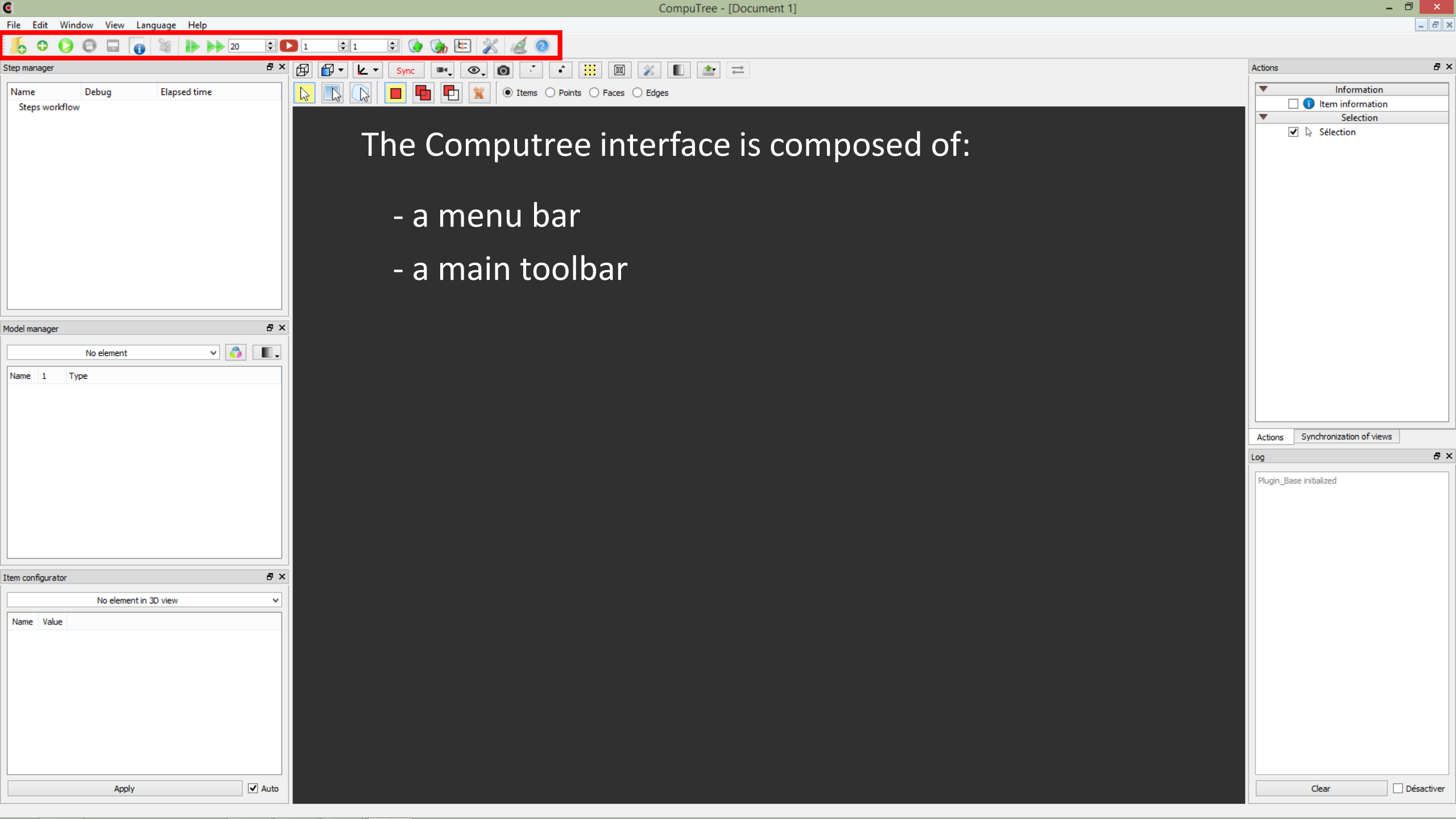


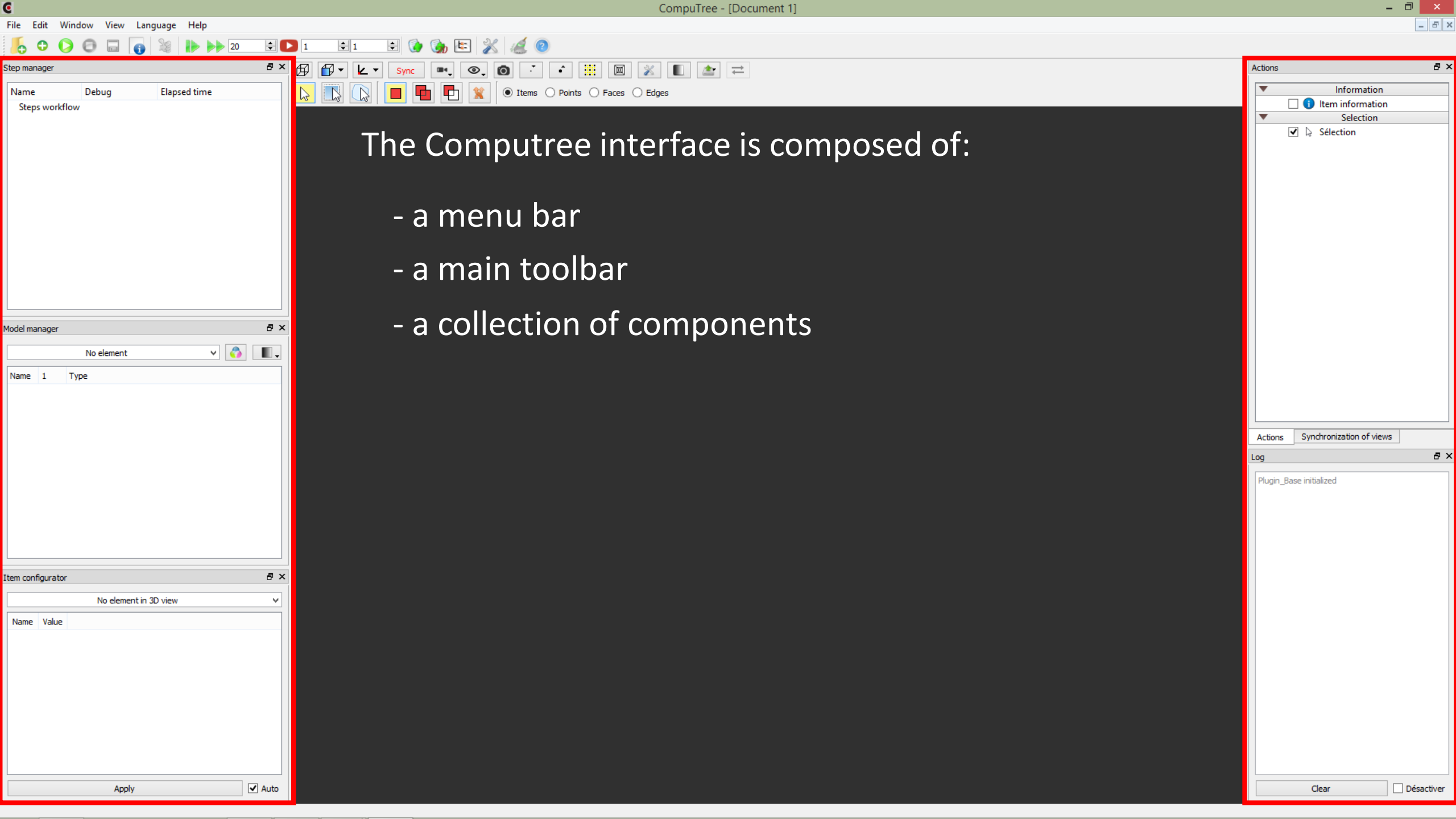
Tutorial CT01

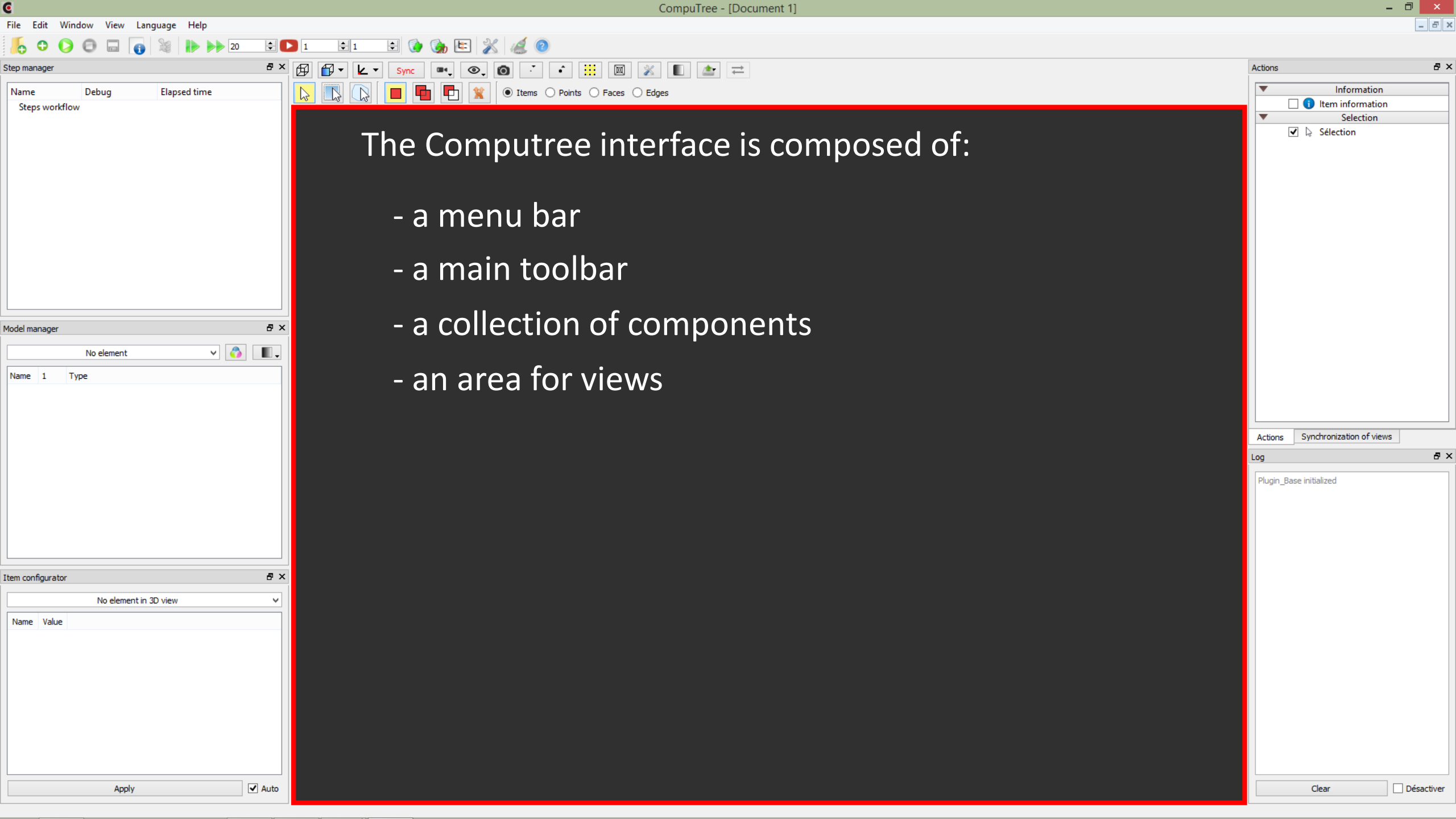
EN

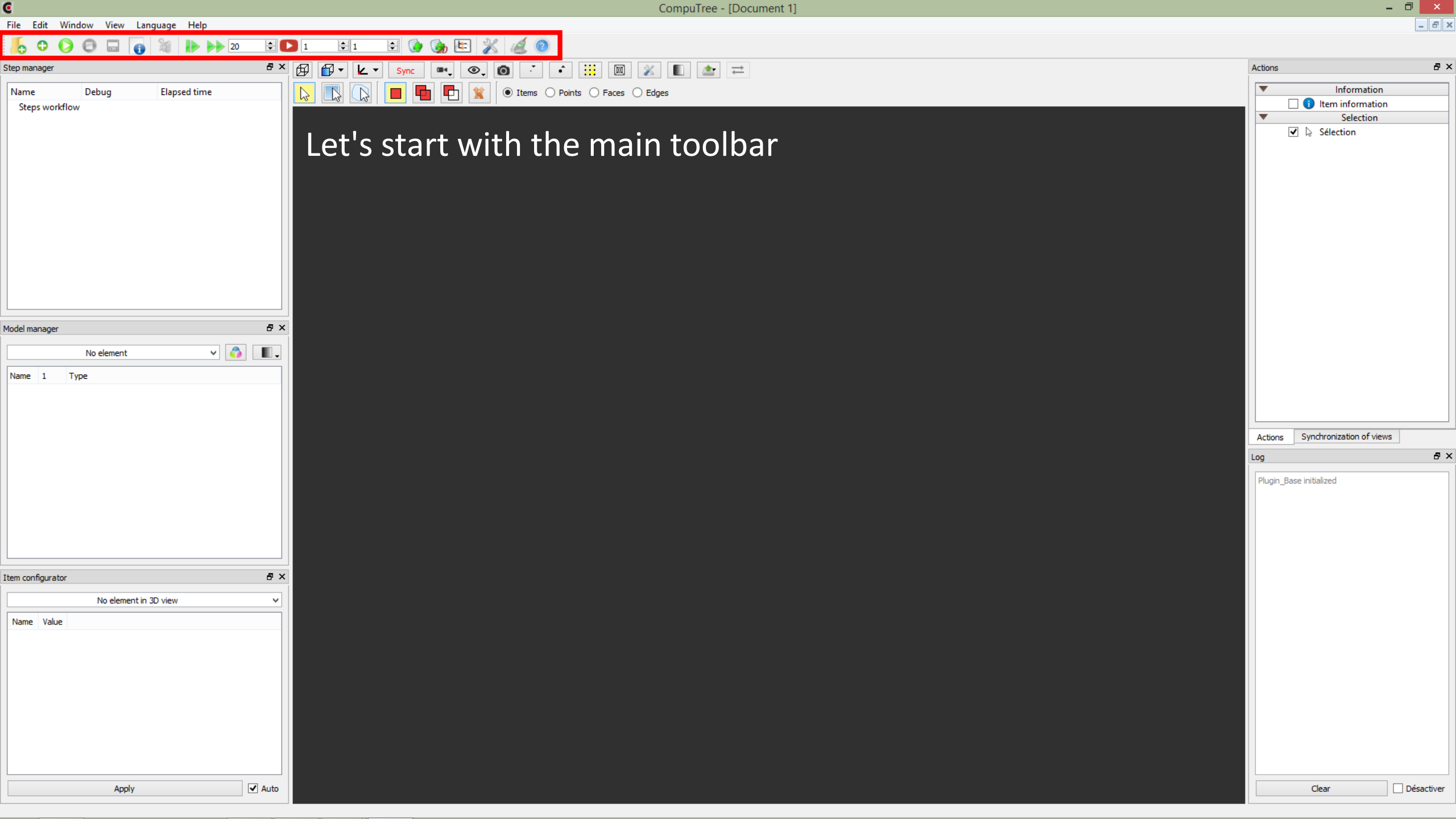
General organization of the interface,
Loading and displaying a point cloud

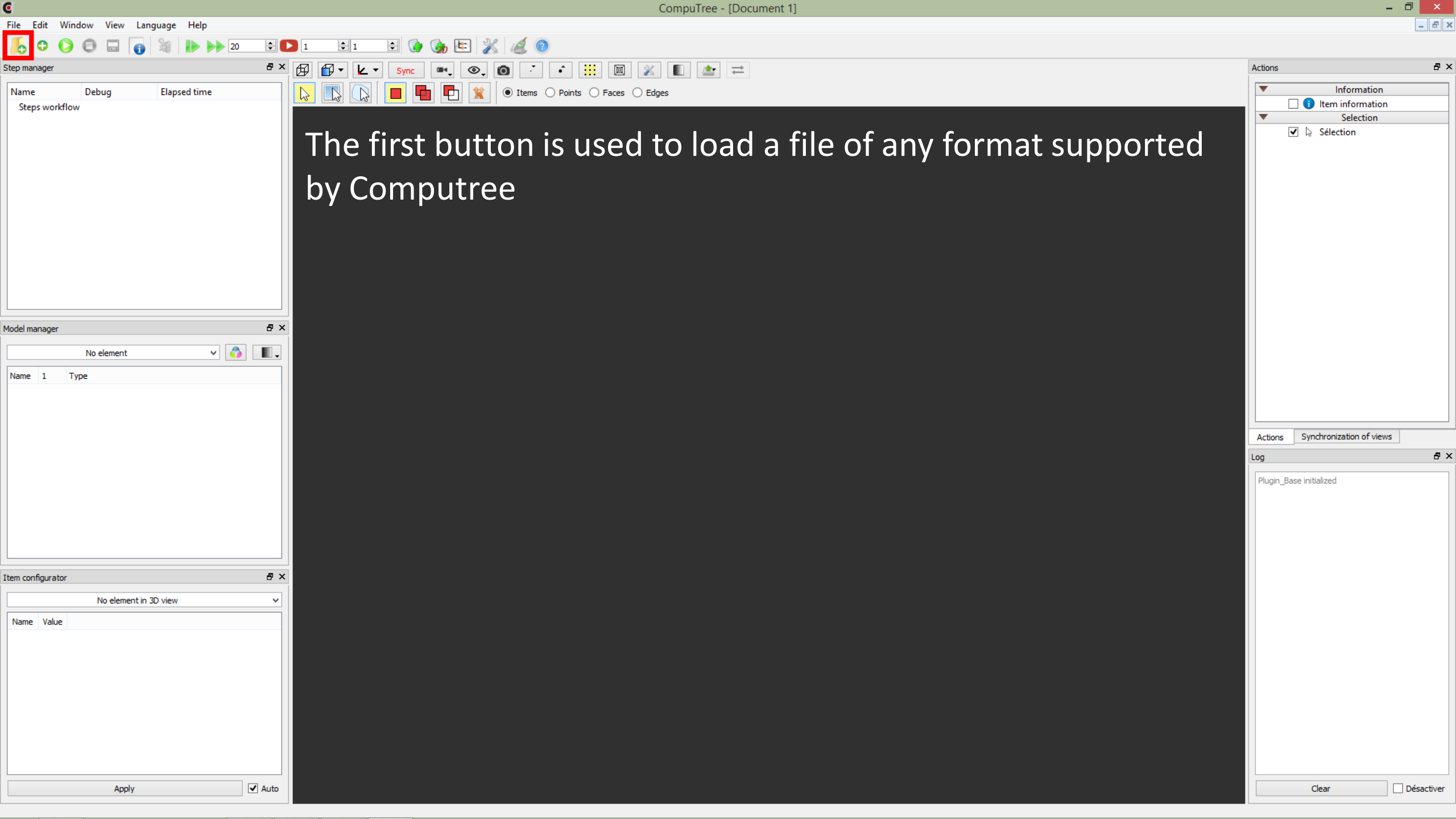

CompuTree - [Document 1]
File
Edit
Window
View
Language
Help
Step manager
Name
Debug
Elapsed time
Steps workflow
Model manager
No element
Name
1
Type
Item configurator
No element in 3D view
Name
Value
Apply
Auto
Sync
Items
Points
Faces
Edges
The Computree interface is composed of:
- a menu bar
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Clear
Désactiver

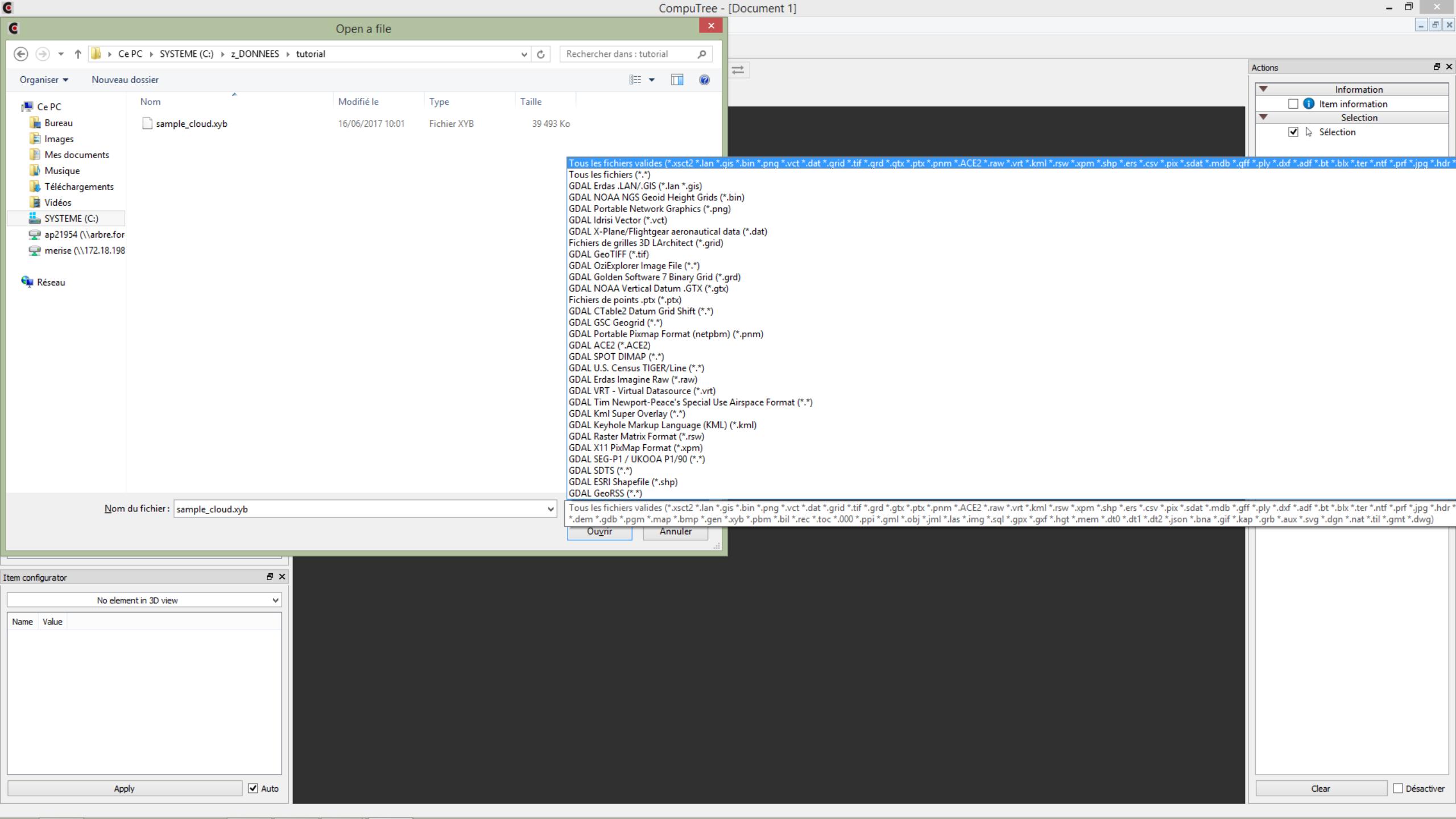

CompuTree - [Document 1]
File
Edit
Window
View
Language
Help
Step manager
Name
Debug
Elapsed time
Steps workflow
Model manager
No element
Name
1
Type
Item configurator
No element in 3D view
Name
Value
Apply
Auto
Sync
Items
Points
Faces
Edges
The Computree interface is composed of:
- a menu bar
- a main toolbar
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Clear
Désactiver


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug Elapsed time
Steps workflow
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
Sync
Items Points Faces Edges
The Computree interface is composed of:
- a menu bar
- a main toolbar
- a collection of components
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Clear
Désactiver


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug Elapsed time
Steps workflow
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
Sync
Items Points Faces Edges
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Clear
Désactiver
The Computree interface is composed of:
- a menu bar
- a main toolbar
- a collection of components
- an area for views


CompuTree - [Document 1]
File
Edit
Window
View
Language
Help
Step manager
Name
Debug
Elapsed time
Steps workflow
Model manager
No element
Name
1
Type
Item configurator
No element in 3D view
Name
Value
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
Clear
Désactiver


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug Elapsed time
Steps workflow
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
Sync
Items Points Faces Edges
The first button is used to load a file of any format supported by Computree
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Clear
Désactiver


CompuTree - [Document 1]
Open a file
Ce PC ▸ SYSTEME (C:) ▸ z_DONNEES ▸ tutorial
Rechercher dans : tutorial
Organiser
Nouveau dossier
Nom
Modifié le
Type
Taille
sample_cloud.xyb
16/06/2017 10:01
Fichier XYB
39 493 Ko
Ce PC
Bureau
Images
Mes documents
Musique
Téléchargements
Vidéos
SYSTEME (C:)
ap21954 (\\arbre.for
merise (\\172.18.198
Réseau
Tous les fichiers valides (*.xsct2 *.lan *.gis *.bin *.png *.vct *.dat *.grid *.tif *.grd *.gtx *.ptx *.pnm *.ACE2 *.raw *.vrt *.kml *.rsw *.xpm *.shp *.ers *.csv *.pix *.sdat *.mdb *.gff *.ply *.dxf *.adf *.bt *.blx *.ter *.ntf *.prf *.jpg *.hdr *
Tous les fichiers (*.*)
GDAL Erdas .LAN/.GIS (*.lan *.gis)
GDAL NOAA NGS Geoid Height Grids (*.bin)
GDAL Portable Network Graphics (*.png)
GDAL Idrisi Vector (*.vct)
GDAL X-Plane/Flightgear aeronautical data (*.dat)
Fichiers de grilles 3D LArchitect (*.grid)
GDAL GeoTIFF (*.tif)
GDAL OziExplorer Image File (*.*)
GDAL Golden Software 7 Binary Grid (*.grd)
GDAL NOAA Vertical Datum .GTX (*.gtx)
Fichiers de points .ptx (*.ptx)
GDAL CTable2 Datum Grid Shift (*.*)
GDAL GSC Geogrid (*.*)
GDAL Portable Pixmap Format (netpbm) (*.pnm)
GDAL ACE2 (*.ACE2)
GDAL SPOT DIMAP (*.*)
GDAL U.S. Census TIGER/Line (*.*)
GDAL Erdas Imagine Raw (*.raw)
GDAL VRT - Virtual Datasource (*.vrt)
GDAL Tim Newport-Peace's Special Use Airspace Format (*.*)
GDAL Kml Super Overlay (*.*)
GDAL Keyhole Markup Language (KML) (*.kml)
GDAL Raster Matrix Format (*.rsw)
GDAL X11 PixMap Format (*.xpm)
GDAL SEG-P1 / UKOOA P1/90 (*.*)
GDAL SDTS (*.*)
GDAL ESRI Shapefile (*.shp)
GDAL GeoRSS (*.*)
Nom du fichier : sample_cloud.xyb
Ouvrir
Annuler
Actions
Information
Item information
Selection
Sélection
Item configurator
No element in 3D view
Name
Value
Apply
Auto
Clear
Désactiver

CompuTree - [Document 1]

File Edit Window View Language Help

Step manager

Name	Debug	Elapsed time
Steps workflow		

Model manager

No element

Name	1	Type

Item configurator

No element in 3D view

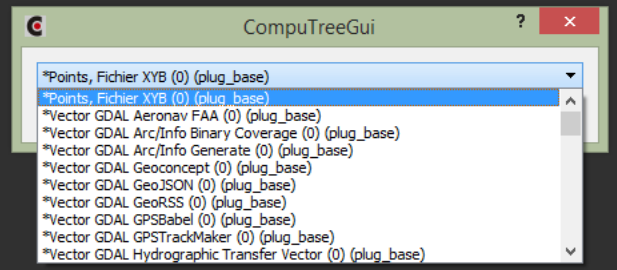
Name	Value

Apply Auto

Sync

Items Points Faces Edges

In the case where the extension corresponds to several formats a window allows the user to choose which one to use



Actions

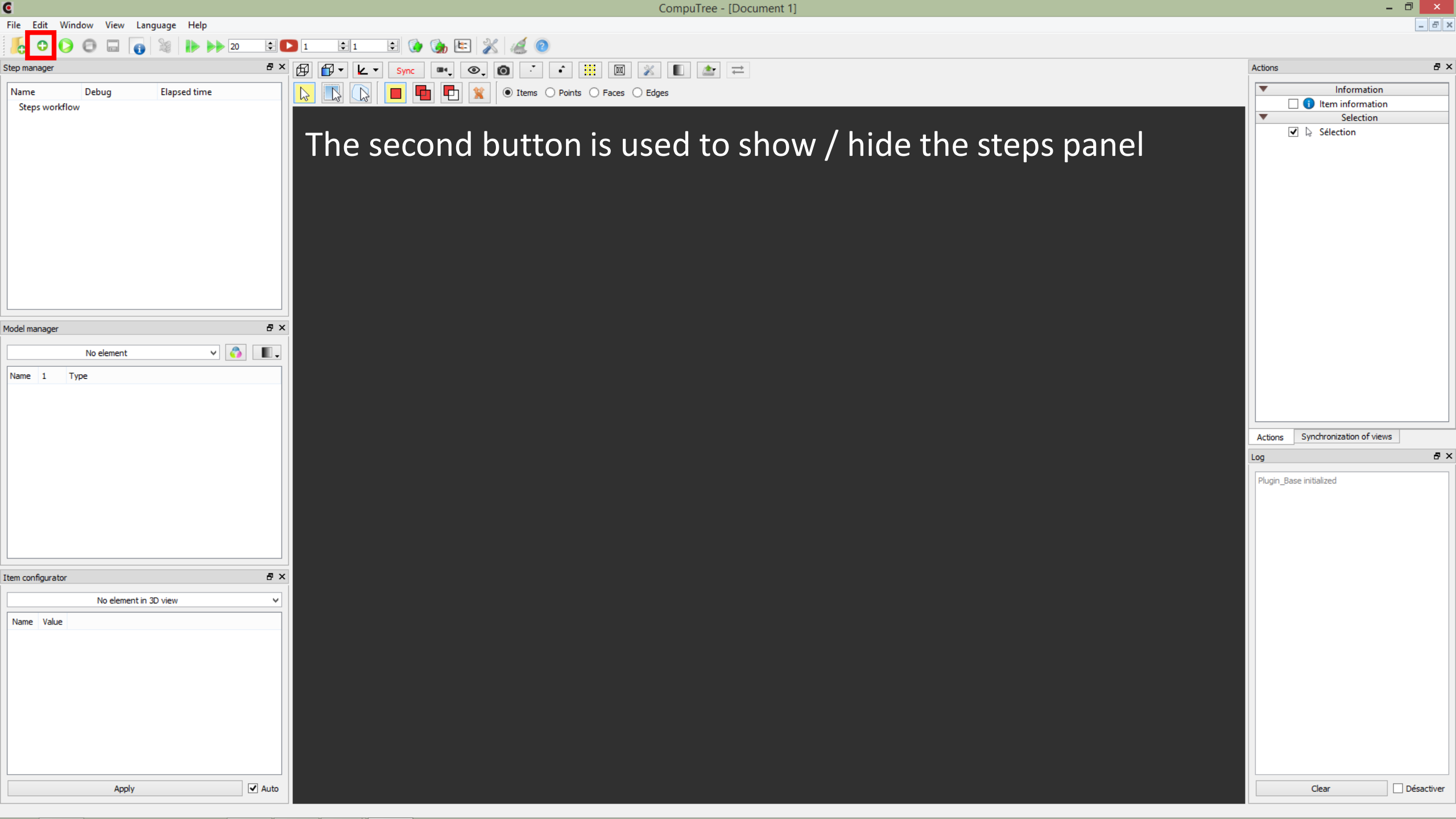
Information
Item information
Selection
Sélection

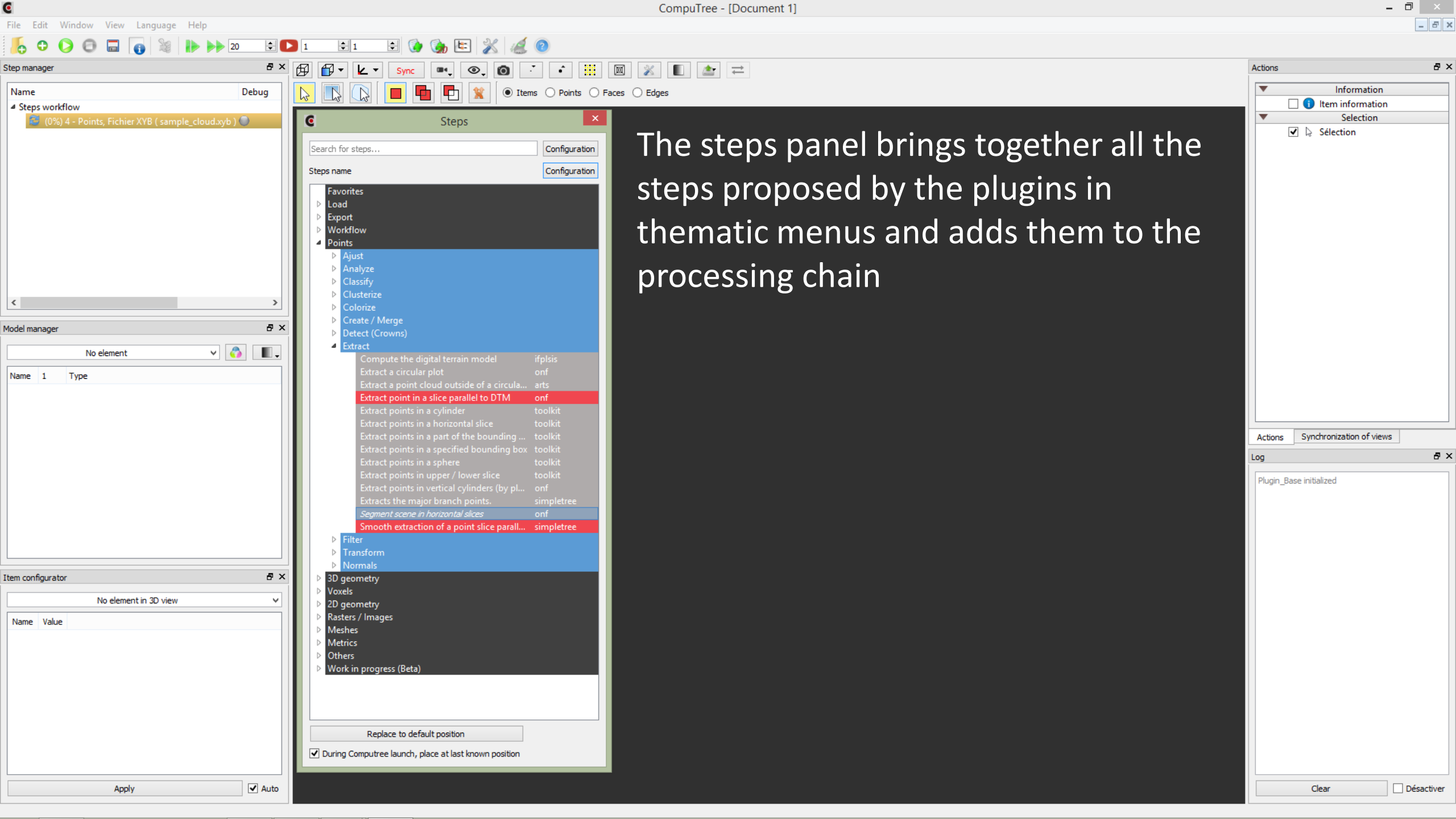
Actions Synchronization of views

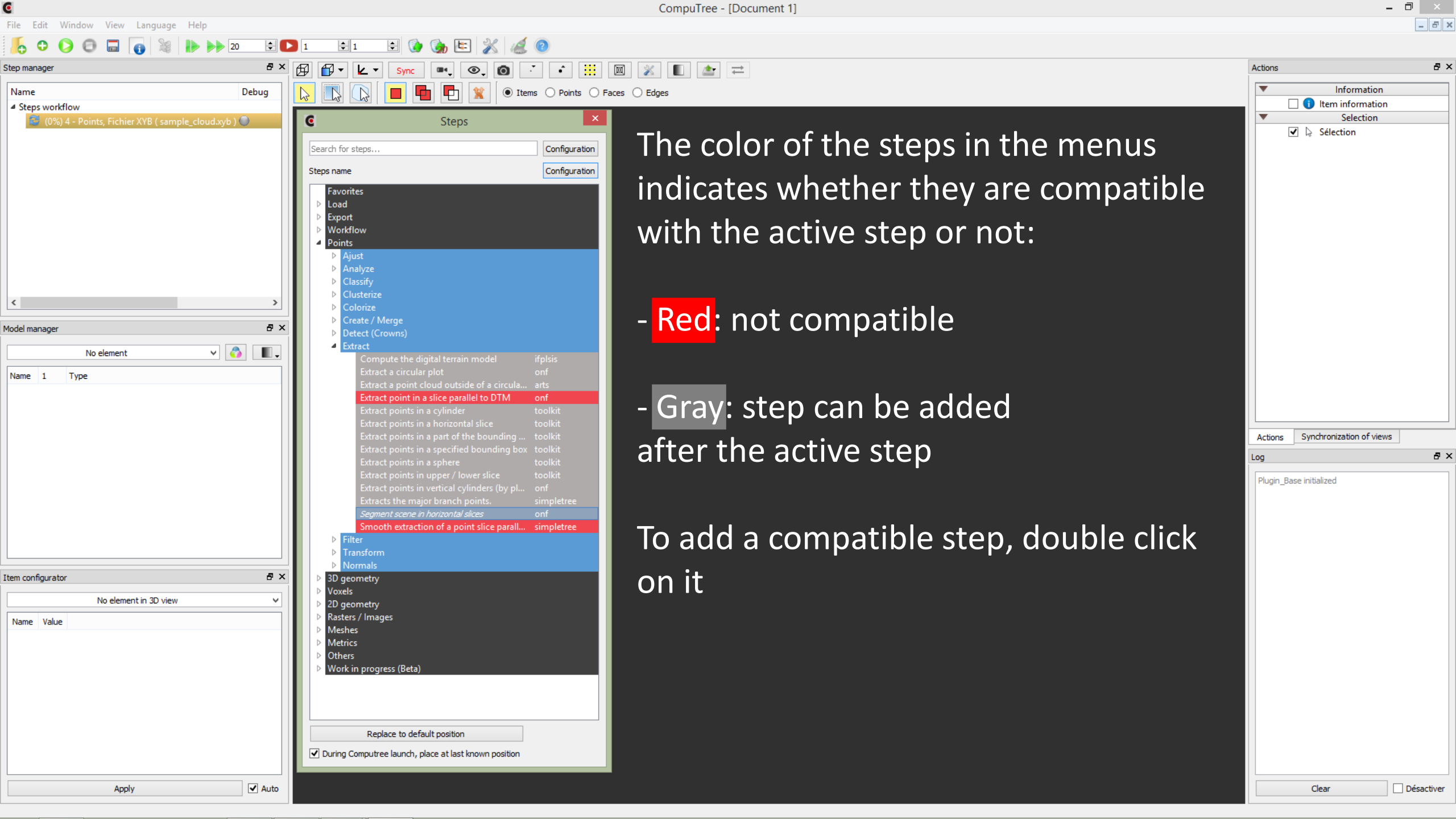
Log

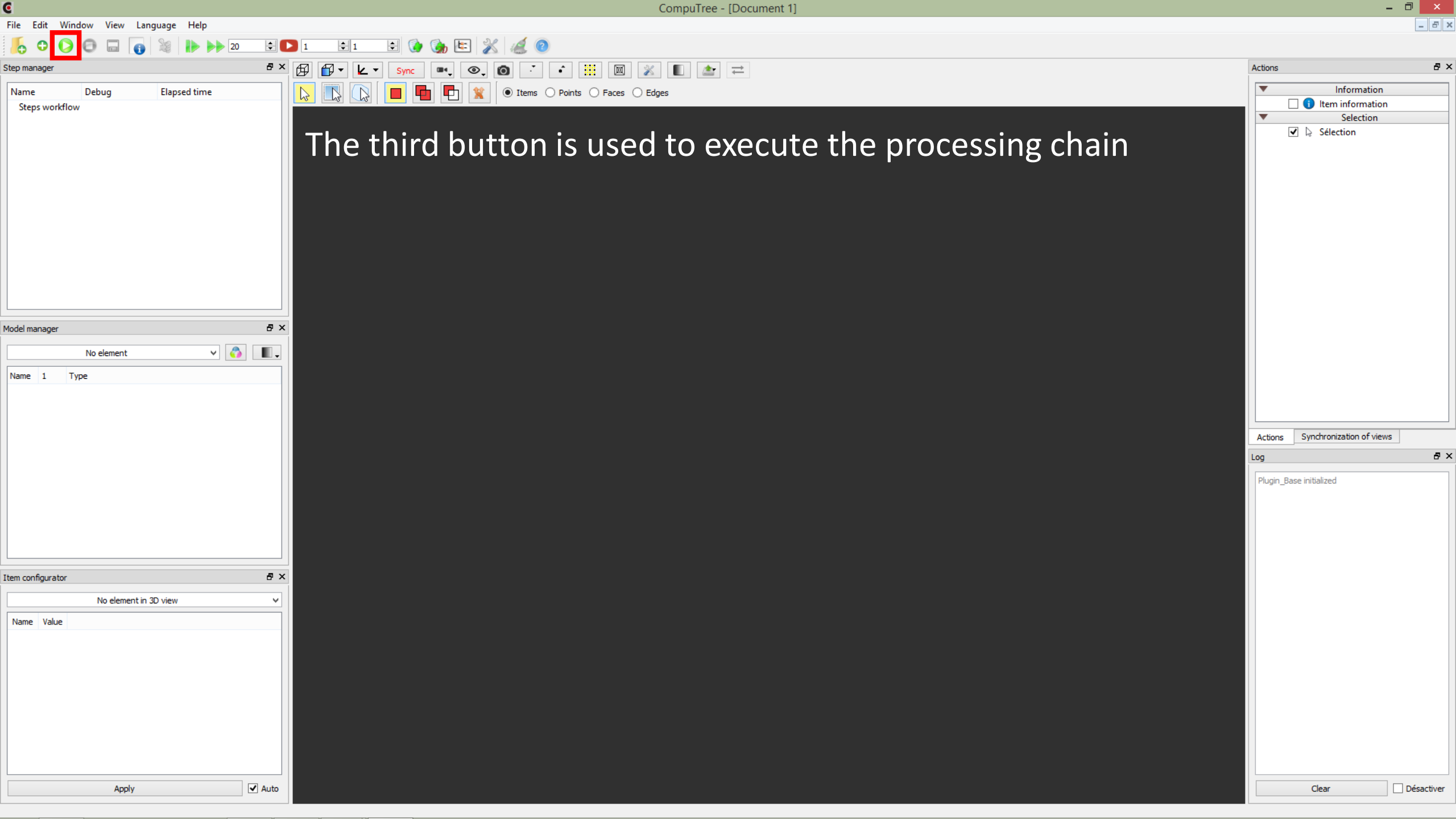
Plugin_Base initialized

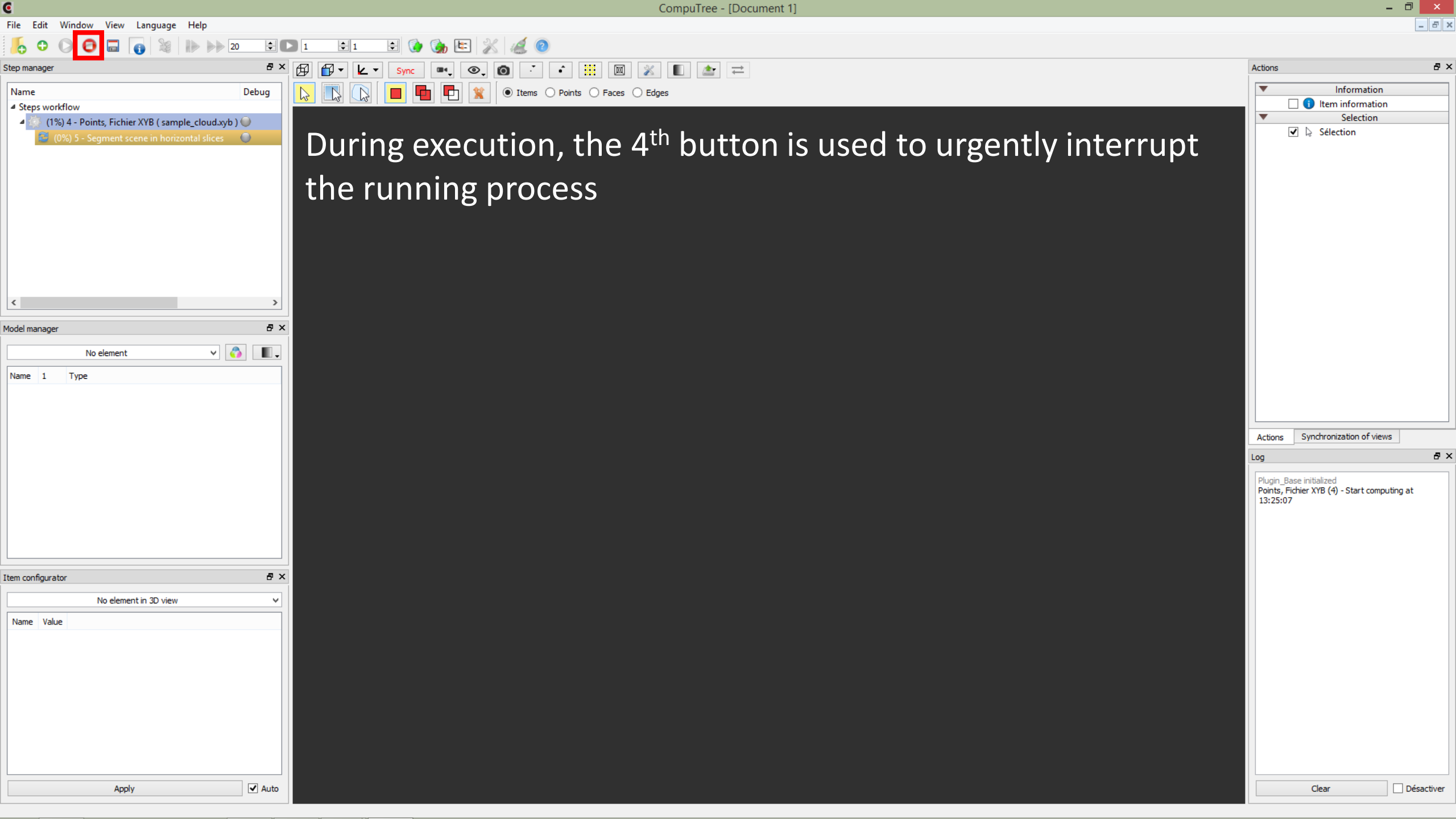
Clear Désactiver

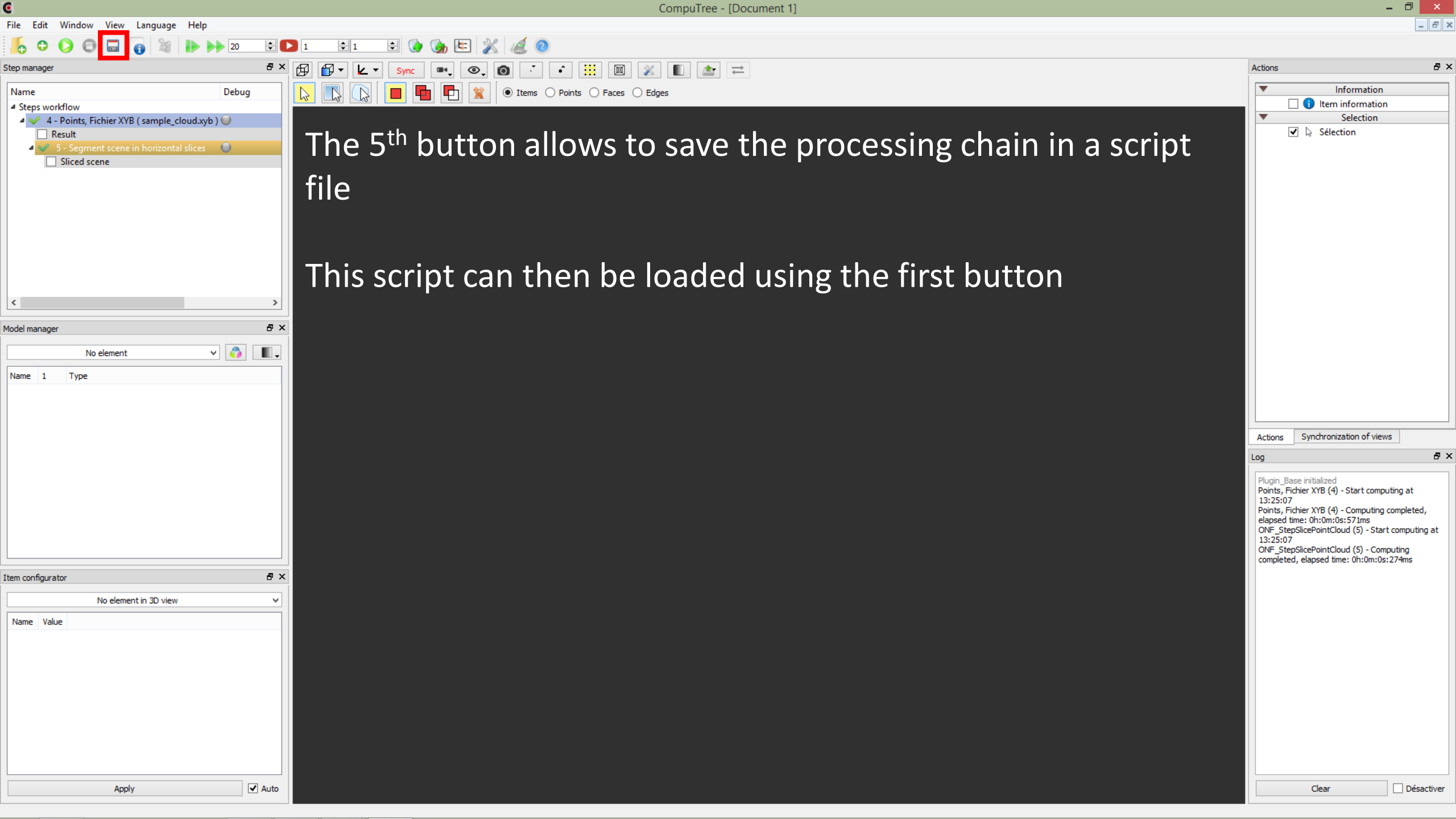

CompuTree - [Document 1]
File
Edit
Window
View
Language
Help
Step manager
Name
Debug
Elapsed time
Steps workflow
Model manager
No element
Name
1
Type
Item configurator
No element in 3D view
Name
Value
Apply
Auto
Sync
Items
Points
Faces
Edges
The second button is used to show / hide the steps panel
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Clear
Désactiver


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
(0%) 4 - Points, Fichier XYB (sample_cloud.xyb)
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
Sync
Items Points Faces Edges
Steps
Search for steps...
Configuration
Steps name
Configuration
Favorites
Load
Export
Workflow
Points
Ajust
Analyze
Classify
Clusterize
Colorize
Create / Merge
Detect (Crowns)
Extract
Compute the digital terrain model ifplsis
Extract a circular plot onf
Extract a point cloud outside of a circula... arts
Extract point in a slice parallel to DTM onf
Extract points in a cylinder toolkit
Extract points in a horizontal slice toolkit
Extract points in a part of the bounding ... toolkit
Extract points in a specified bounding box toolkit
Extract points in a sphere toolkit
Extract points in upper / lower slice toolkit
Extract points in vertical cylinders (by pl... onf
Extracts the major branch points. simpletree
Segment scene in horizontal slices onf
Smooth extraction of a point slice parall... simpletree
Filter
Transform
Normals
3D geometry
Voxels
2D geometry
Rasters / Images
Meshes
Metrics
Others
Work in progress (Beta)
Replace to default position
During Computree launch, place at last known position
The steps panel brings together all the steps proposed by the plugins in thematic menus and adds them to the processing chain
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Clear
Désactiver


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
(0%) 4 - Points, Fichier XYB (sample_cloud.xyb)
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
Sync
Items Points Faces Edges
Steps
Search for steps...
Configuration
Steps name
Configuration
Favorites
Load
Export
Workflow
Points
Ajust
Analyze
Classify
Clusterize
Colorize
Create / Merge
Detect (Crowns)
Extract
Compute the digital terrain model ifplsis
Extract a circular plot onf
Extract a point cloud outside of a circula... arts
Extract point in a slice parallel to DTM onf
Extract points in a cylinder toolkit
Extract points in a horizontal slice toolkit
Extract points in a part of the bounding ... toolkit
Extract points in a specified bounding box toolkit
Extract points in a sphere toolkit
Extract points in upper / lower slice toolkit
Extract points in vertical cylinders (by pl... onf
Extracts the major branch points. simpletree
Segment scene in horizontal slices onf
Smooth extraction of a point slice parall... simpletree
Filter
Transform
Normals
3D geometry
Voxels
2D geometry
Rasters / Images
Meshes
Metrics
Others
Work in progress (Beta)
Replace to default position
During Computree launch, place at last known position
The color of the steps in the menus indicates whether they are compatible with the active step or not:
- Red: not compatible
- Gray: step can be added after the active step
To add a compatible step, double click on it
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Clear
Désactiver


CompuTree - [Document 1]
File
Edit
Window
View
Language
Help
Step manager
Name
Debug
Elapsed time
Steps workflow
Model manager
No element
Name
1
Type
Item configurator
No element in 3D view
Name
Value
Apply
Auto
Sync
Items
Points
Faces
Edges
The third button is used to execute the processing chain
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Clear
Désactiver


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
(1%) 4 - Points, Fichier XYB (sample_cloud.xyb)
(0%) 5 - Segment scene in horizontal slices
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
Sync
Items Points Faces Edges
During execution, the 4th button is used to urgently interrupt the running process
Actions
Information
Item information
Selection
Sélection
Actions Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:25:07
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
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
Sync
Items Points Faces Edges
The 5th button allows to save the processing chain in a script file
This script can then be loaded using the first button
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:25:07
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:571ms
ONF_StepSlicePointCloud (5) - Start computing at 13:25:07
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:274ms
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

No element

Name 1 Type

Item configurator

No element in 3D view

Name Value

Apply Auto

Sync

Items Points Faces Edges

The 6th button provides information about the current step sequence, using a dedicated dialog box

In particular, it allows to display and export references of the literature related to used plugins and steps

Actions

Information

Item information

Selection

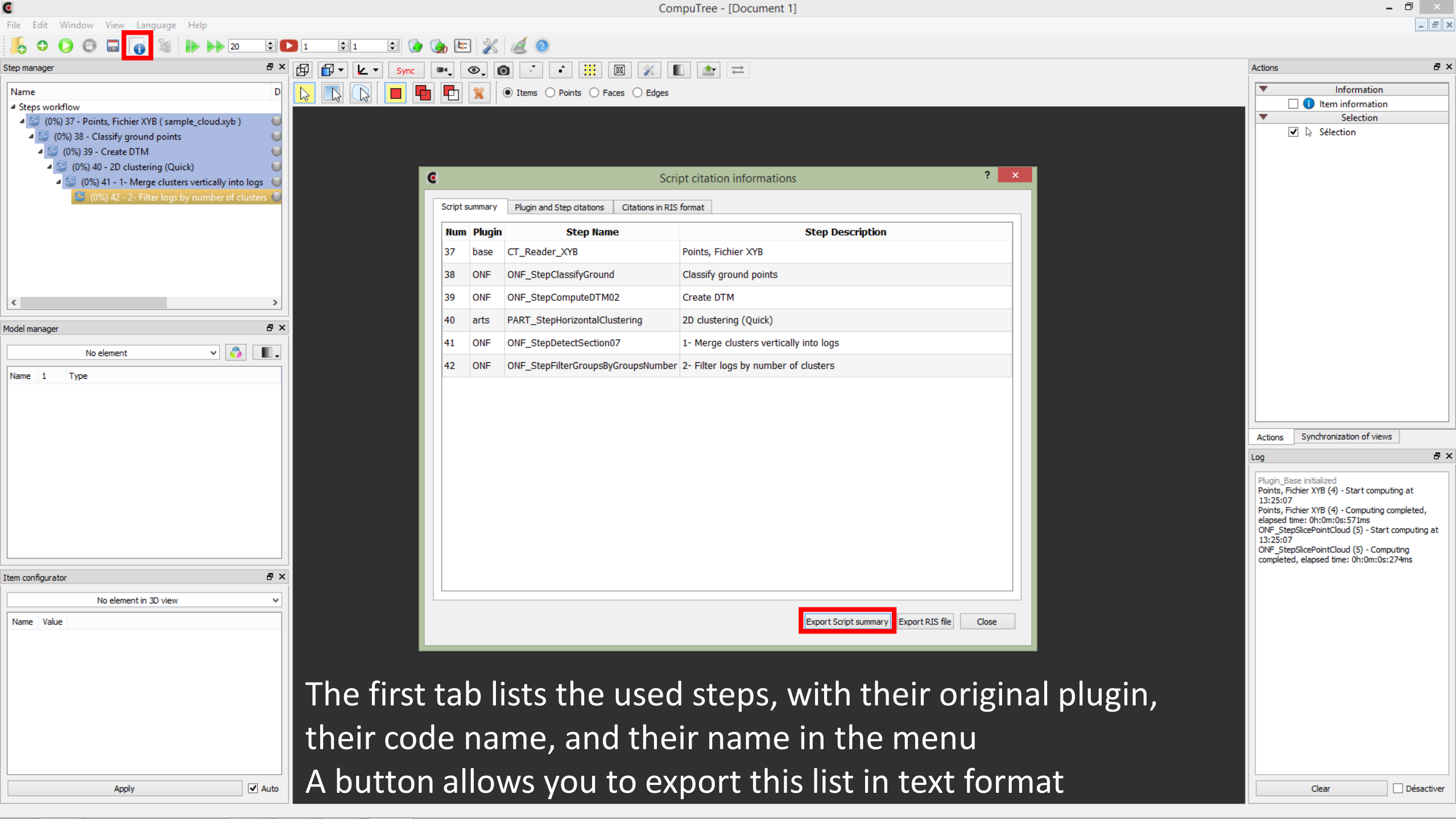
Sélection

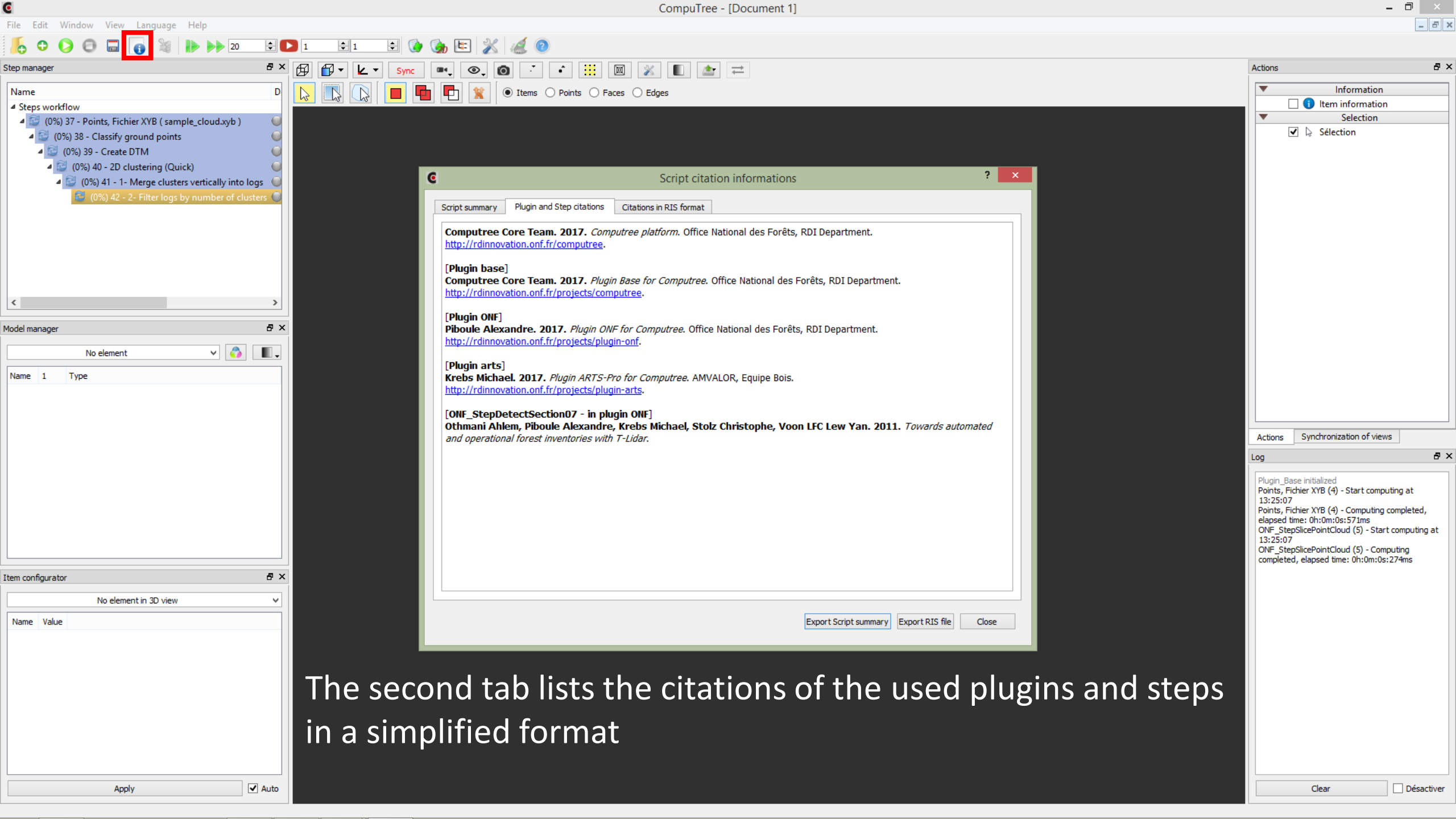
Actions Synchronization of views

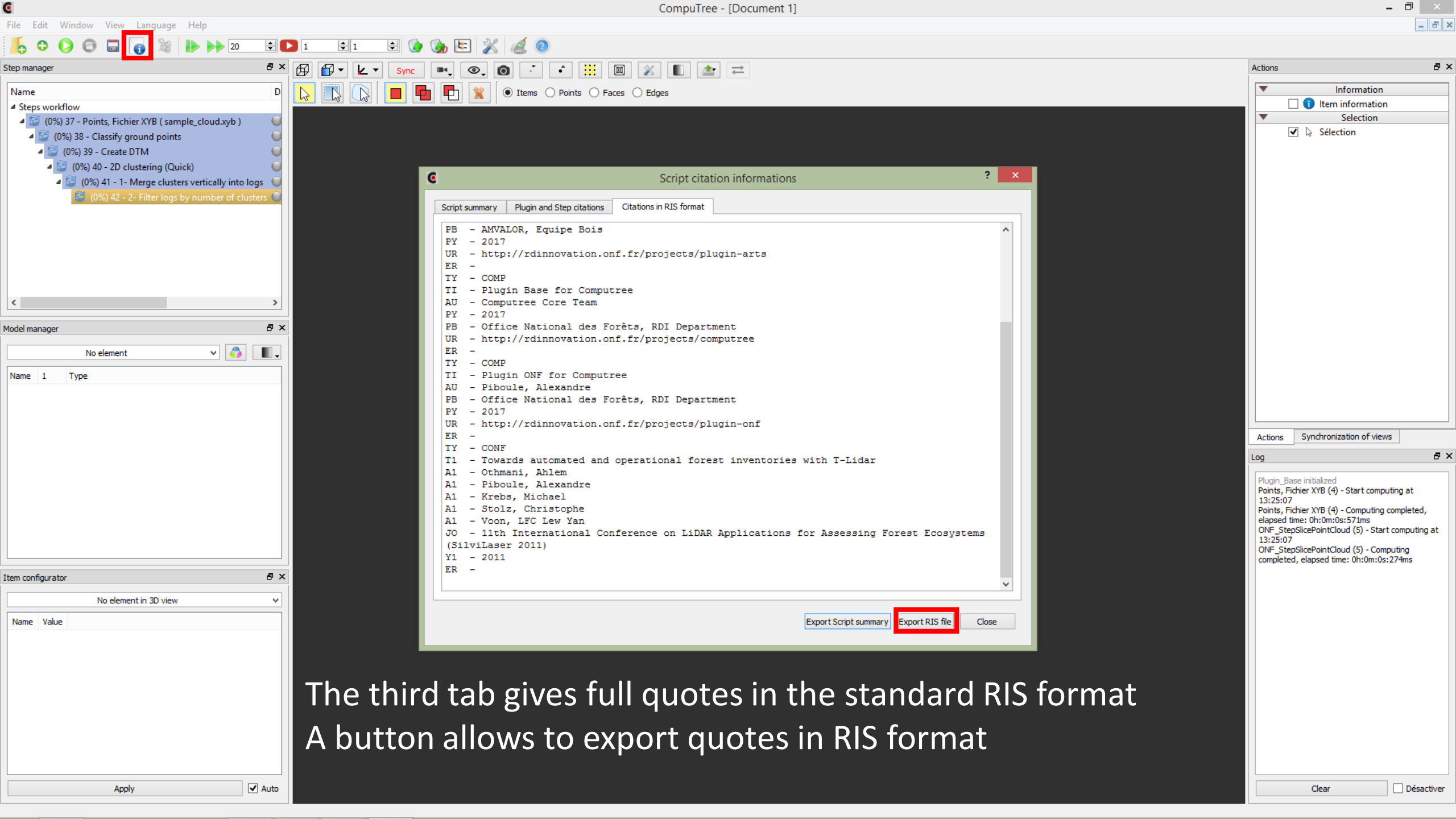
Log

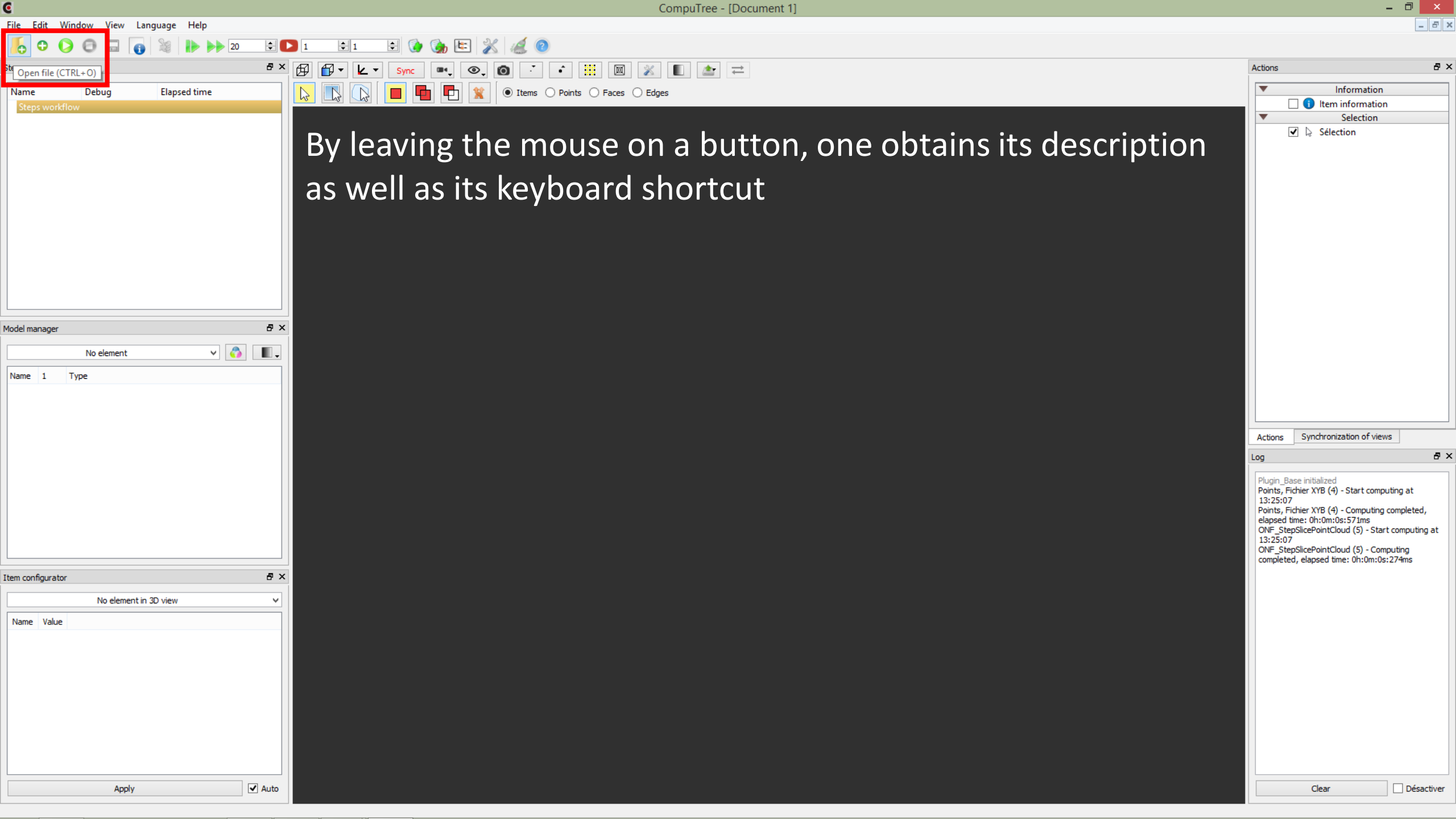
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:25:07
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:571ms
ONF_StepSlicePointCloud (5) - Start computing at 13:25:07
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:274ms

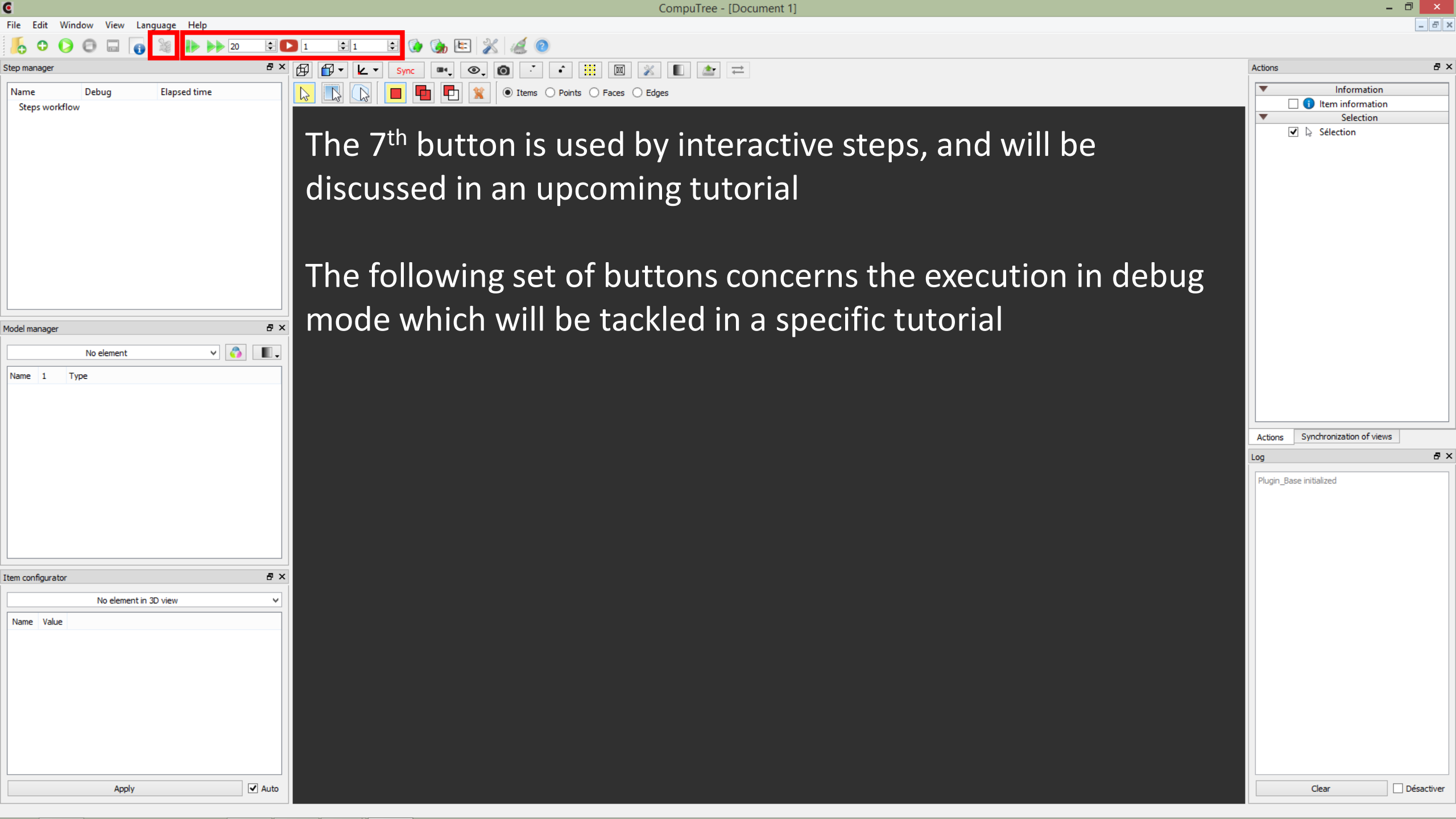
Clear Désactiver

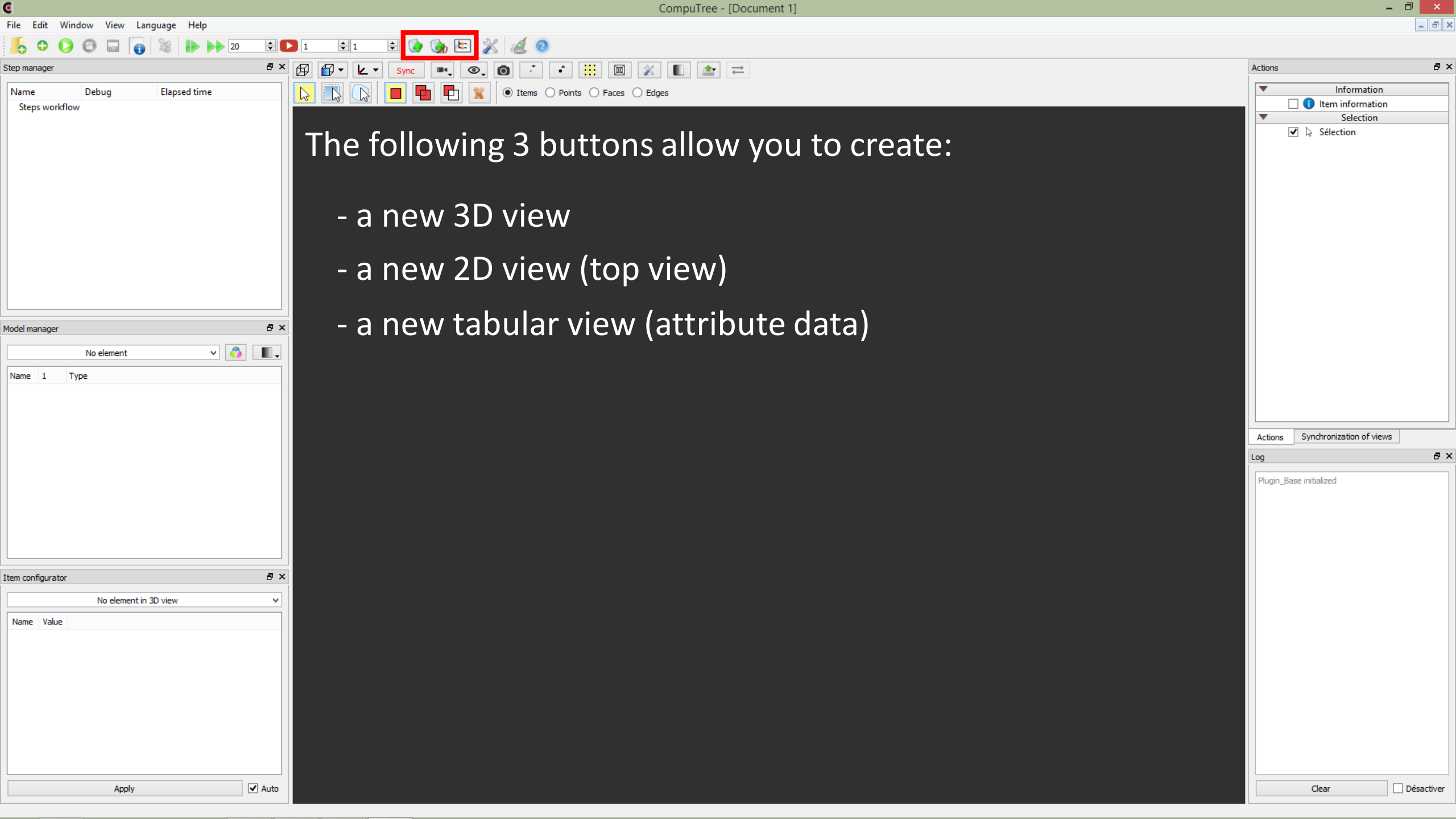

CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name
Steps workflow
(0%) 37 - Points, Fichier XYB (sample_cloud.xyb)
(0%) 38 - Classify ground points
(0%) 39 - Create DTM
(0%) 40 - 2D clustering (Quick)
(0%) 41 - 1- Merge clusters vertically into logs
(0%) 42 - 2- Filter logs by number of clusters
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
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 13:25:07
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:571ms
ONF_StepSlicePointCloud (5) - Start computing at 13:25:07
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:274ms
Clear
Désactiver
Script citation informations
Script summary
Plugin and Step citations
Citations in RIS format
Num Plugin Step Name Step Description
37 base CT_Reader_XYB Points, Fichier XYB
38 ONF ONF_StepClassifyGround Classify ground points
39 ONF ONF_StepComputeDTM02 Create DTM
40 arts PART_StepHorizontalClustering 2D clustering (Quick)
41 ONF ONF_StepDetectSection07 1- Merge clusters vertically into logs
42 ONF ONF_StepFilterGroupsByGroupsNumber 2- Filter logs by number of clusters
Export Script summary
Export RIS file
Close
The first tab lists the used steps, with their original plugin, their code name, and their name in the menu
A button allows you to export this list in text format

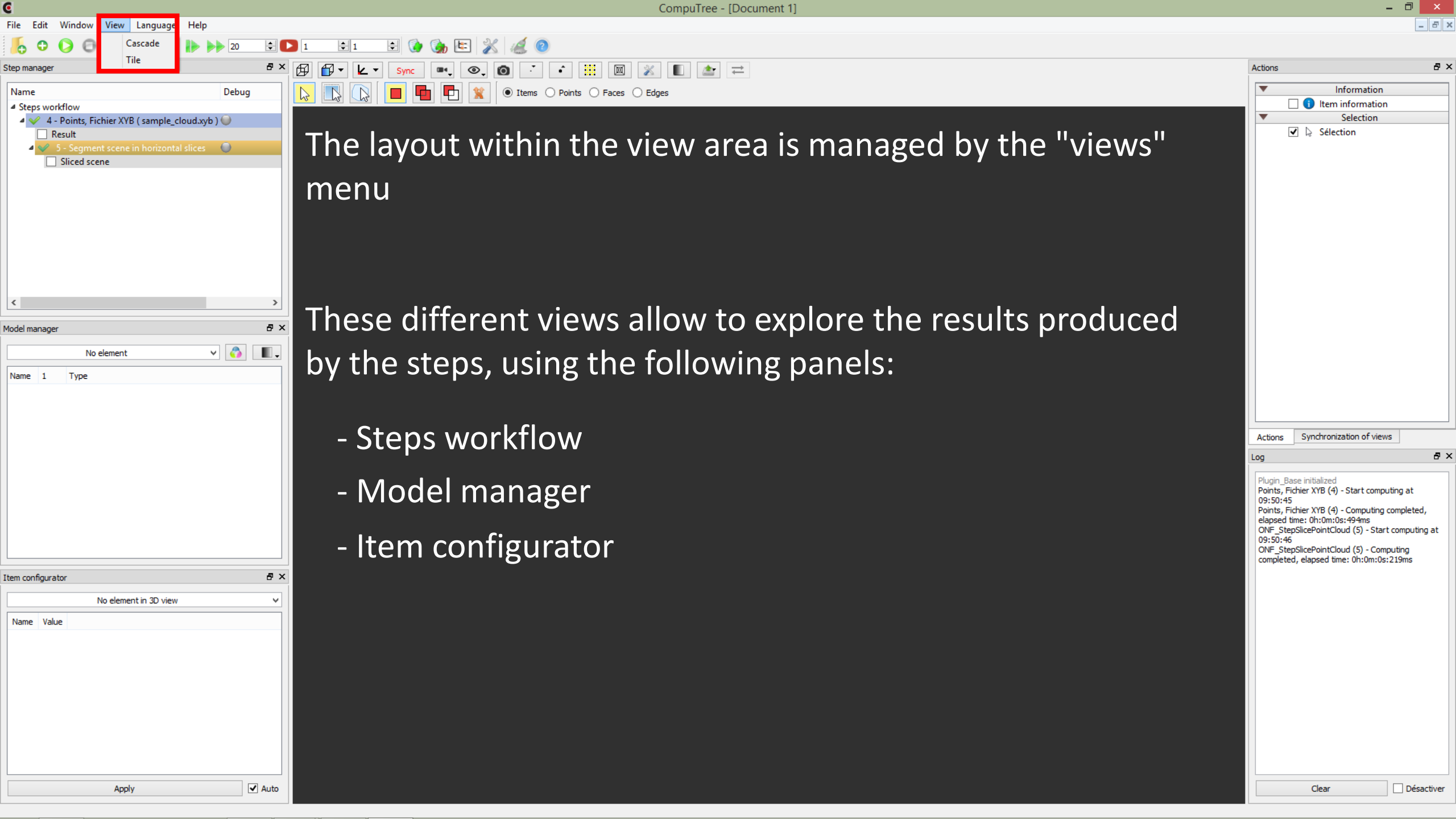

CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name
Steps workflow
(0%) 37 - Points, Fichier XYB (sample_cloud.xyb)
(0%) 38 - Classify ground points
(0%) 39 - Create DTM
(0%) 40 - 2D clustering (Quick)
(0%) 41 - 1- Merge clusters vertically into logs
(0%) 42 - 2- Filter logs by number of clusters
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
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 13:25:07
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:571ms
ONF_StepSlicePointCloud (5) - Start computing at 13:25:07
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:274ms
Clear
Désactiver
Script citation informations
Script summary
Plugin and Step citations
Citations in RIS format
Computree Core Team. 2017. Computree platform. Office National des Forêts, RDI Department.
http://rdinnovation.onf.fr/computree.
[Plugin base]
Computree Core Team. 2017. Plugin Base for Computree. Office National des Forêts, RDI Department.
http://rdinnovation.onf.fr/projects/computree.
[Plugin ONF]
Piboule Alexandre. 2017. Plugin ONF for Computree. Office National des Forêts, RDI Department.
http://rdinnovation.onf.fr/projects/plugin-onf.
[Plugin arts]
Krebs Michael. 2017. Plugin ARTS-Pro for Computree. AMVALOR, Equipe Bois.
http://rdinnovation.onf.fr/projects/plugin-arts.
[ONF_StepDetectSection07 - in plugin ONF]
Othmani Ahlem, Piboule Alexandre, Krebs Michael, Stolz Christophe, Voon LFC Lew Yan. 2011. Towards automated and operational forest inventories with T-Lidar.
Export Script summary
Export RIS file
Close
The second tab lists the citations of the used plugins and steps in a simplified format

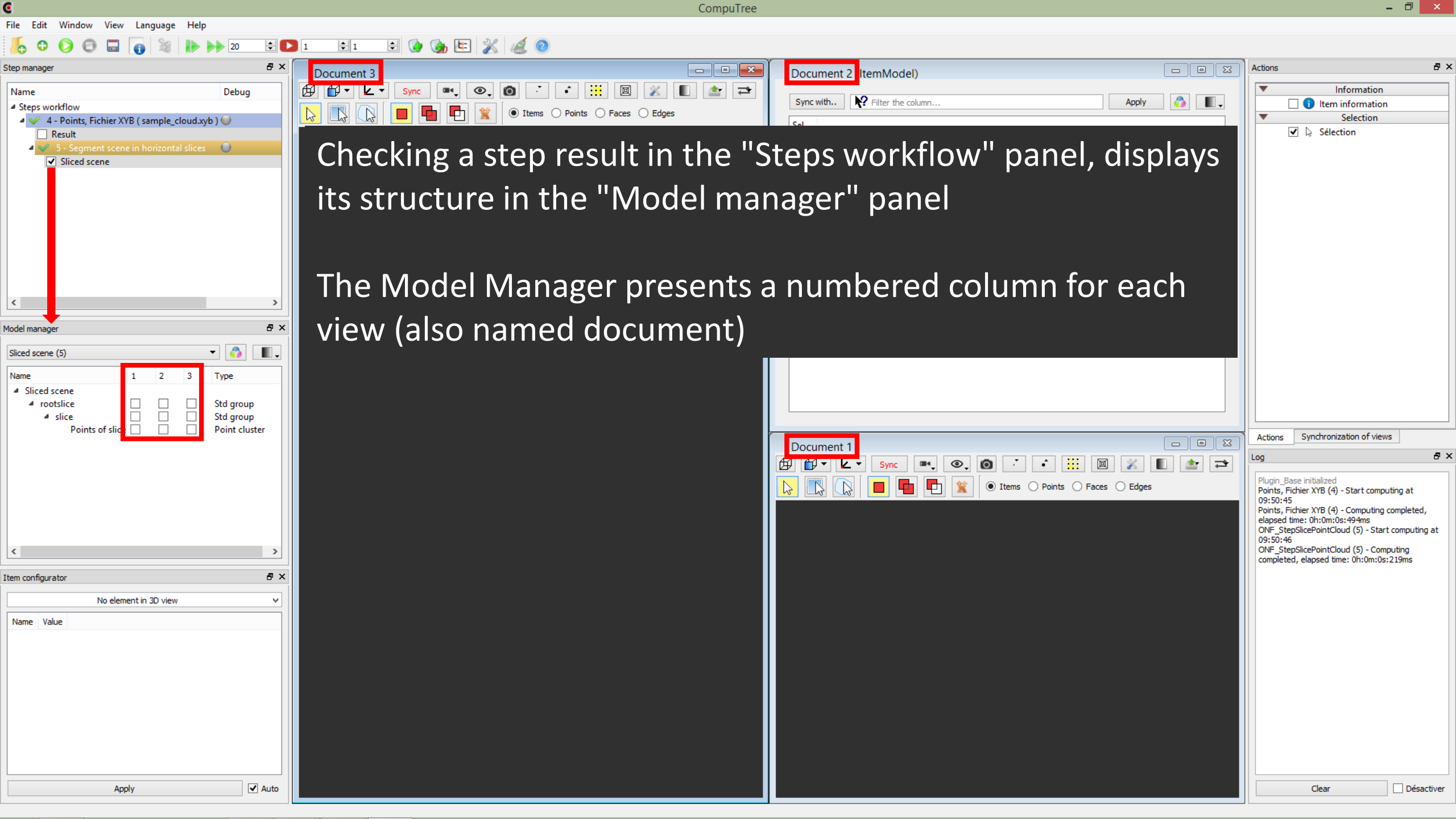

CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name
Steps workflow
(0%) 37 - Points, Fichier XYB (sample_cloud.xyb)
(0%) 38 - Classify ground points
(0%) 39 - Create DTM
(0%) 40 - 2D clustering (Quick)
(0%) 41 - 1- Merge clusters vertically into logs
(0%) 42 - 2- Filter logs by number of clusters
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
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 13:25:07
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:571ms
ONF_StepSlicePointCloud (5) - Start computing at 13:25:07
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:274ms
Clear
Désactiver
Script citation informations
Script summary
Plugin and Step citations
Citations in RIS format
PB - AMVALOR, Equipe Bois
PY - 2017
UR - http://rdinnovation.onf.fr/projects/plugin-arts
ER -
TY - COMP
TI - Plugin Base for Computree
AU - Computree Core Team
PY - 2017
PB - Office National des Forêts, RDI Department
UR - http://rdinnovation.onf.fr/projects/computree
ER -
TY - COMP
TI - Plugin ONF for Computree
AU - Piboule, Alexandre
PB - Office National des Forêts, RDI Department
PY - 2017
UR - http://rdinnovation.onf.fr/projects/plugin-onf
ER -
TY - CONF
T1 - Towards automated and operational forest inventories with T-Lidar
A1 - Othmani, Ahlem
A1 - Piboule, Alexandre
A1 - Krebs, Michael
A1 - Stolz, Christophe
A1 - Voon, LFC Lew Yan
JO - 11th International Conference on LiDAR Applications for Assessing Forest Ecosystems (SilviLaser 2011)
Y1 - 2011
ER -
Export Script summary
Export RIS file
Close
The third tab gives full quotes in the standard RIS format
A button allows to export quotes in RIS format

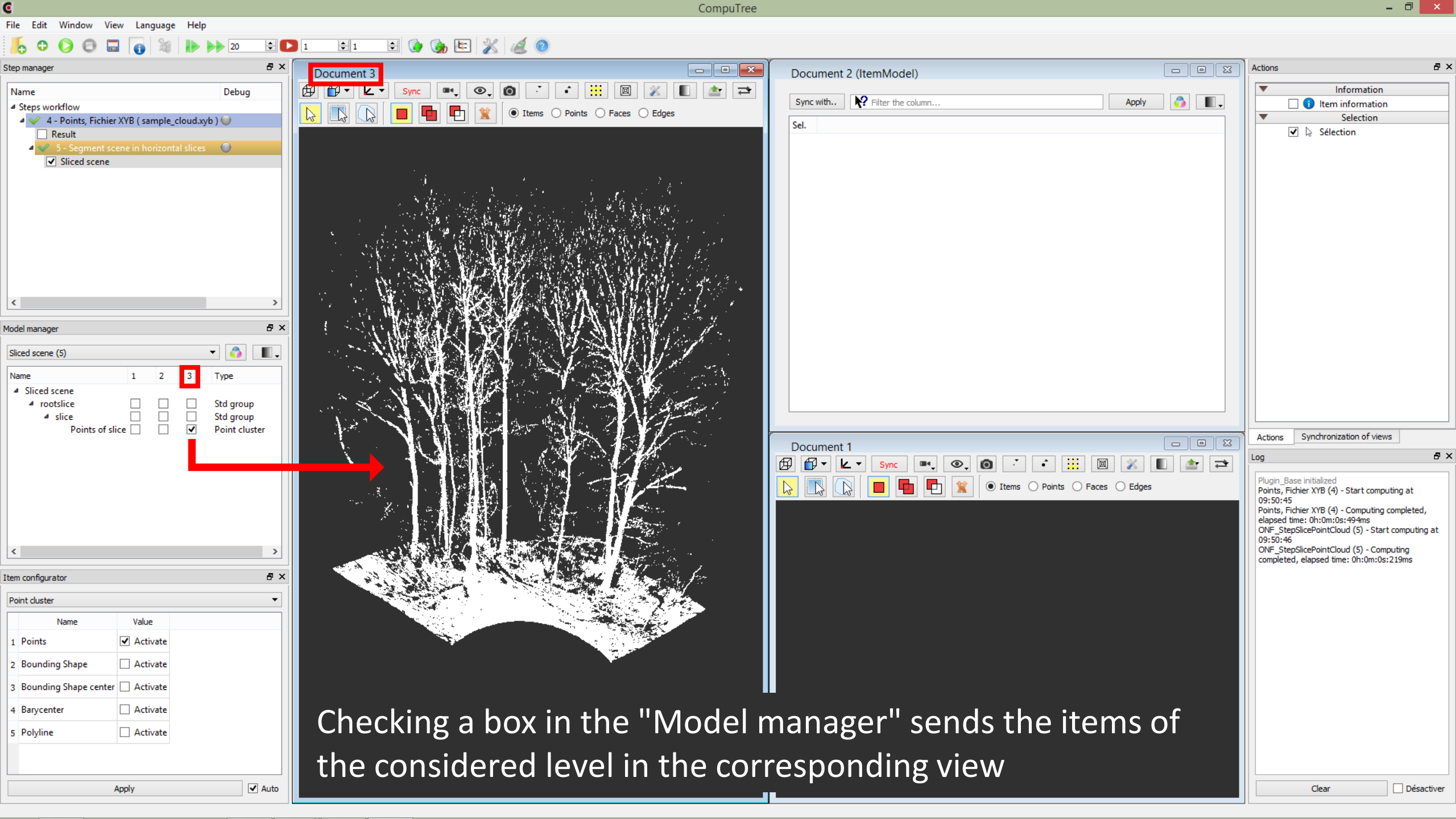

CompuTree - [Document 1]
File Edit Window View Language Help
Open file (CTRL+O)
Name Debug Elapsed time
Steps workflow
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
Sync
Items Points Faces Edges
By leaving the mouse on a button, one obtains its description as well as its keyboard shortcut
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 13:25:07
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:571ms
ONF_StepSlicePointCloud (5) - Start computing at 13:25:07
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:274ms
Clear
Désactiver

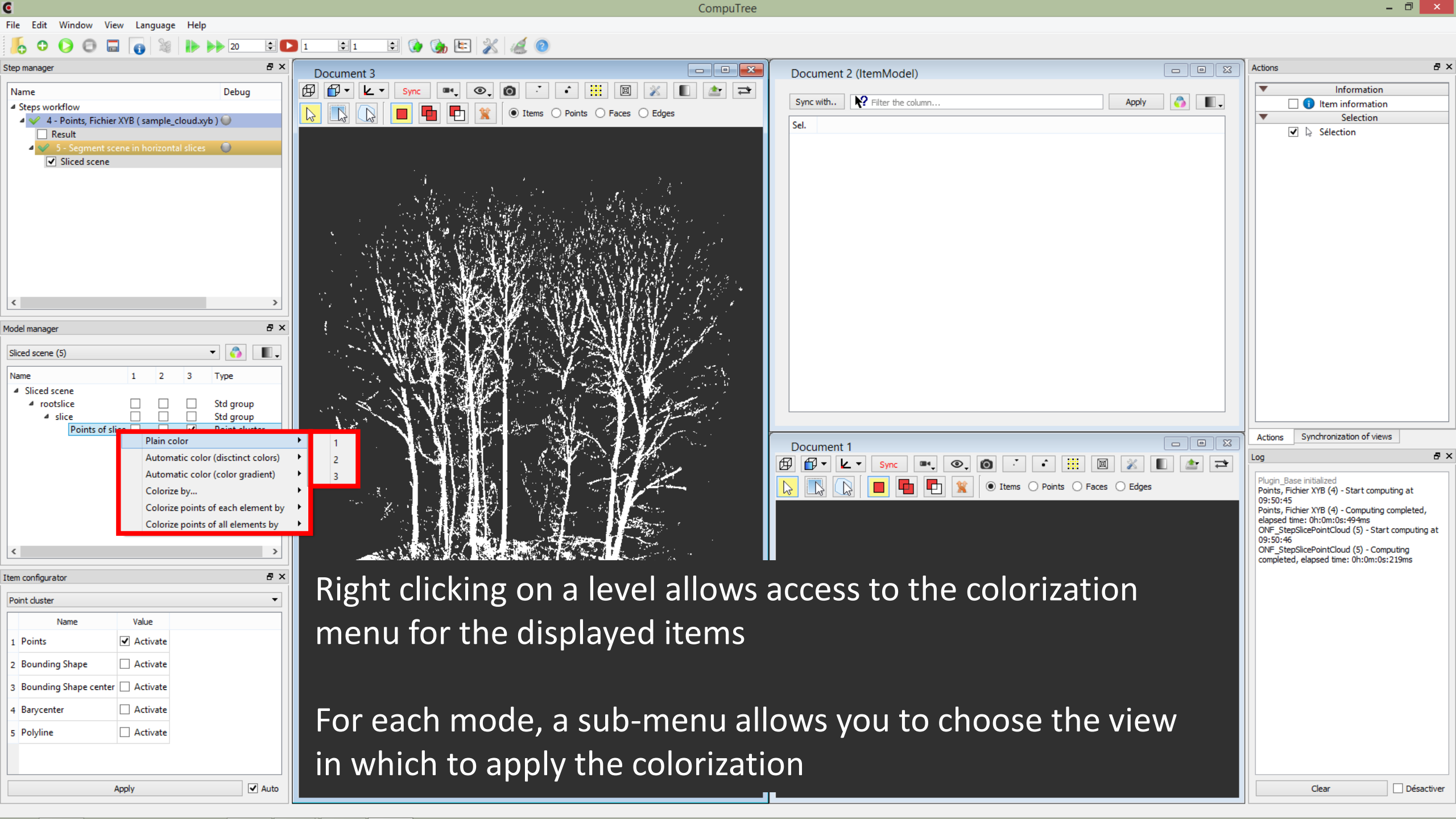

CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug Elapsed time
Steps workflow
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
Sync
Items Points Faces Edges
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Clear
Désactiver
The 7th button is used by interactive steps, and will be discussed in an upcoming tutorial
The following set of buttons concerns the execution in debug mode which will be tackled in a specific tutorial

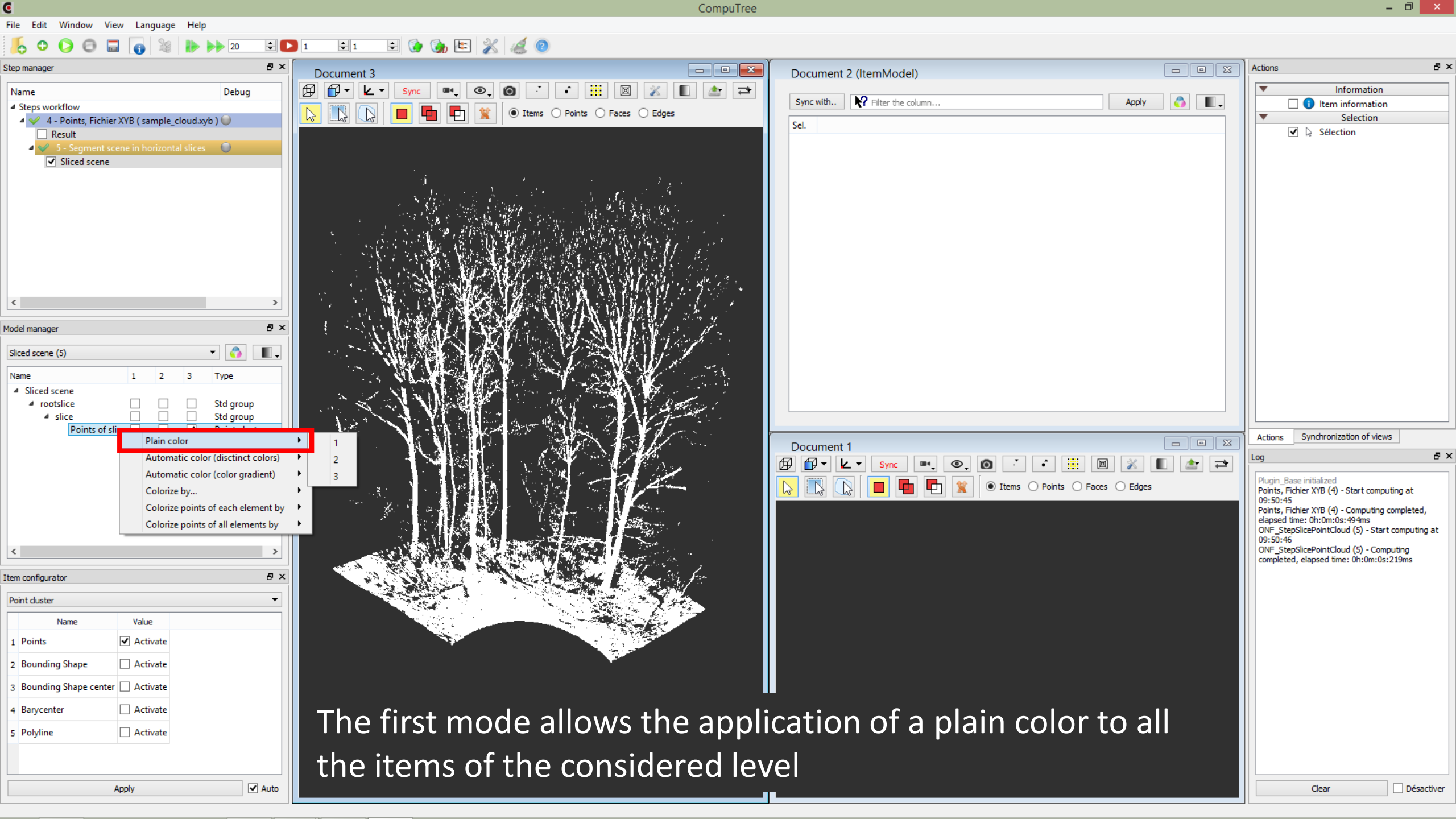

CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug Elapsed time
Steps workflow
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
Sync
Items Points Faces Edges
The following 3 buttons allow you to create:
- a new 3D view
- a new 2D view (top view)
- a new tabular view (attribute data)
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Clear
Désactiver


CompuTree - [Document 1]
File
Edit
Window
View
Language
Help
Cascade
Tile
Step manager
Name
Debug
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
No element
Name
1
Type
Item configurator
No element in 3D view
Name
Value
Apply
Auto
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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms
Clear
Désactiver
The layout within the view area is managed by the "views" menu
These different views allow to explore the results produced by the steps, using the following panels:
- Steps workflow
- Model manager
- Item configurator


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
Sliced scene (5)
Name 1 2 3 Type
Sliced scene
rootslice Std group
slice Std group
Points of slic Point cluster
Item configurator
No element in 3D view
Name Value
Apply Auto
Document 3
Sync
Items Points Faces Edges
Document 2
ItemModel)
Sync with..
Filter the column...
Apply
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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms
Clear Désactiver
Checking a step result in the "Steps workflow" panel, displays its structure in the "Model manager" panel
The Model Manager presents a numbered column for each view (also named document)


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
Sliced scene (5)
Name 1 2 3 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 3
Sync
Items Points Faces Edges
Document 2 (ItemModel)
Sync with..
Filter the column...
Apply
Sel.
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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms
Clear Désactiver
Checking a box in the "Model manager" sends the items of the considered level in the corresponding view


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
Sliced scene (5)
Name 1 2 3 Type
Sliced scene
rootslice Std group
slice Std group
Plain color
Automatic color (disctinct colors)
Automatic color (color gradient)
Colorize by...
Colorize points of each element by
Colorize points of all elements by
1
2
3
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 3
Sync
Items Points Faces Edges
Document 2 (ItemModel)
Sync with..
Filter the column...
Apply
Sel.
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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms
Clear
Désactiver
Right clicking on a level allows access to the colorization menu for the displayed items
For each mode, a sub-menu allows you to choose the view in which to apply the colorization


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
Sliced scene (5)
Name 1 2 3 Type
Sliced scene
rootslice Std group
slice Std group
Points of sli
Plain color
Automatic color (disctinct colors)
Automatic color (color gradient)
Colorize by...
Colorize points of each element by
Colorize points of all elements by
1
2
3
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 3
Sync
Items Points Faces Edges
Document 2 (ItemModel)
Sync with..
Filter the column...
Apply
Sel.
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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms
Clear
Désactiver
The first mode allows the application of a plain color to all the items of the considered level

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

Sliced scene (5)

Name	1	2	3	Type
Sliced scene				
rootslice	☐	☐	☐	Std group
slice	☐	☐	☐	Std group
Points of slice	☐	☐	☑	Point cluster

Item configurator

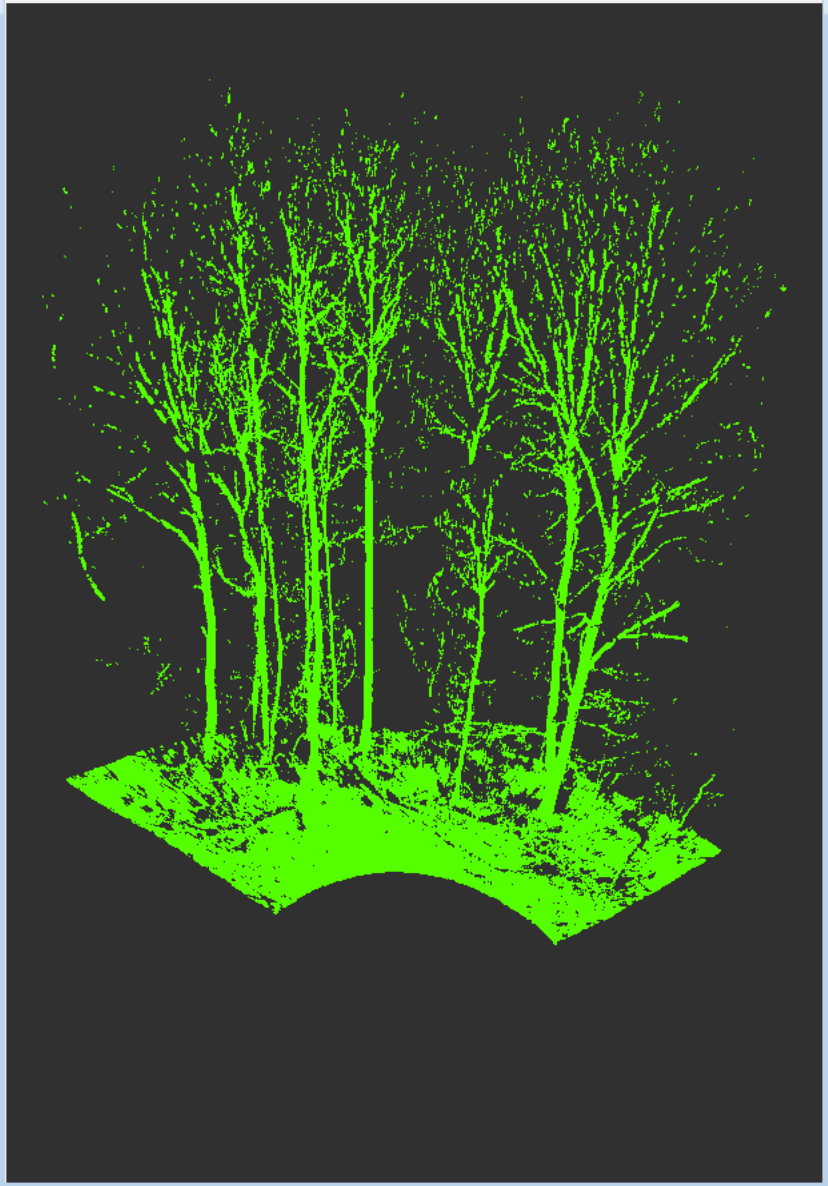
Point cluster

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

Apply ☑ Auto

Document 3

Sync Items Points Faces Edges



Document 2 (ItemModel)

Sync with.. Filter the column... Apply

Sel.

Document 1

Sync Items Points Faces Edges

Actions

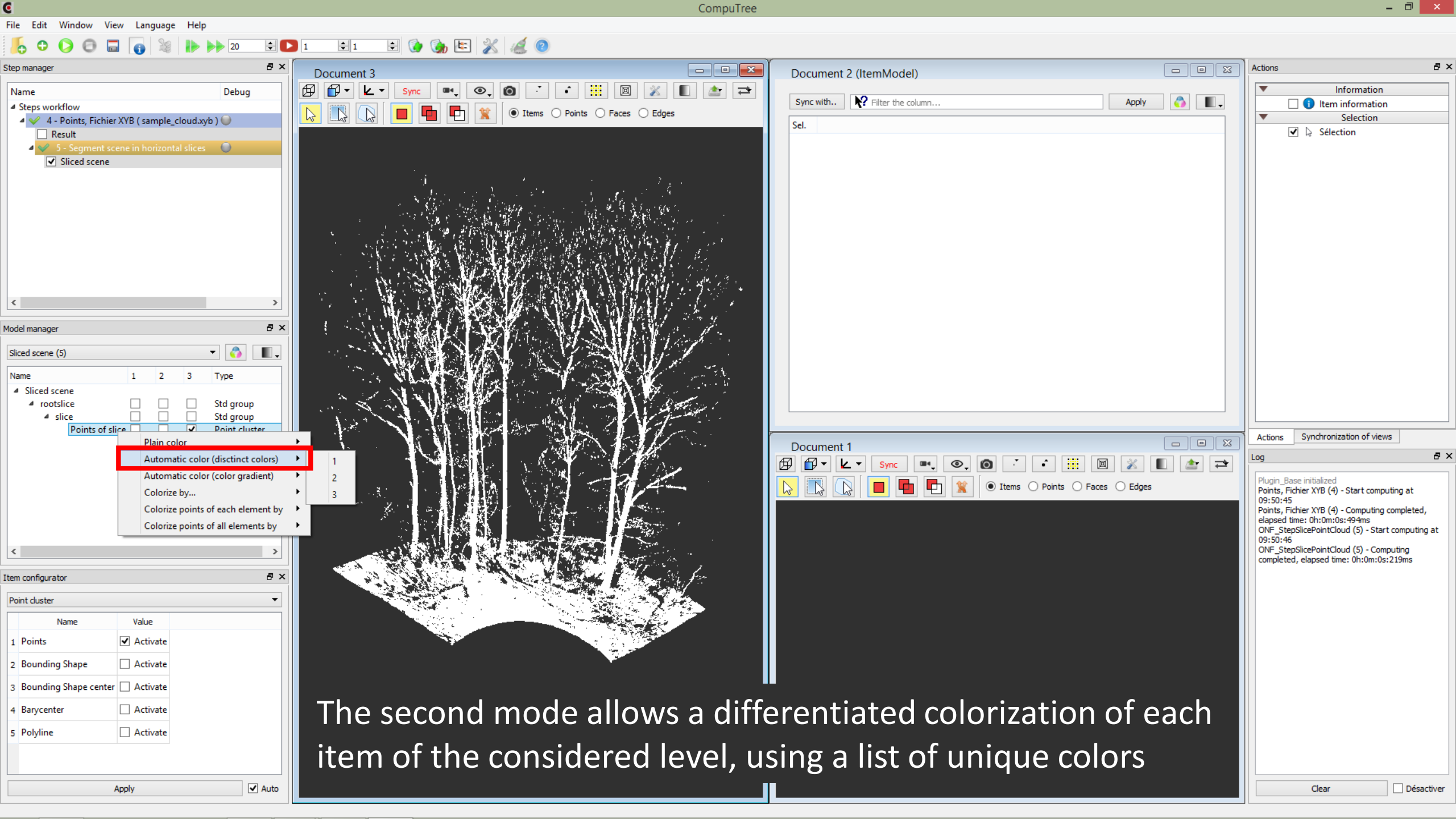
Information
☐ Item information
Selection
☑ Sélection

Actions | Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms

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
Sliced scene (5)
Name 1 2 3 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point cluster
Plain color
Automatic color (disctinct colors)
Automatic color (color gradient)
Colorize by...
Colorize points of each element by
Colorize points of all elements by
1
2
3
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 3
Sync
Items Points Faces Edges
Document 2 (ItemModel)
Sync with..
Filter the column...
Apply
Sel.
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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms
Clear Désactiver
The second mode allows a differentiated colorization of each item of the considered level, using a list of unique colors

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

Sliced scene (5)

Name	1	2	3	Type
Sliced scene				
rootslice	☐	☐	☐	Std group
slice	☐	☐	☐	Std group
Points of slice	☐	☐	☑	Point cluster

Item configurator

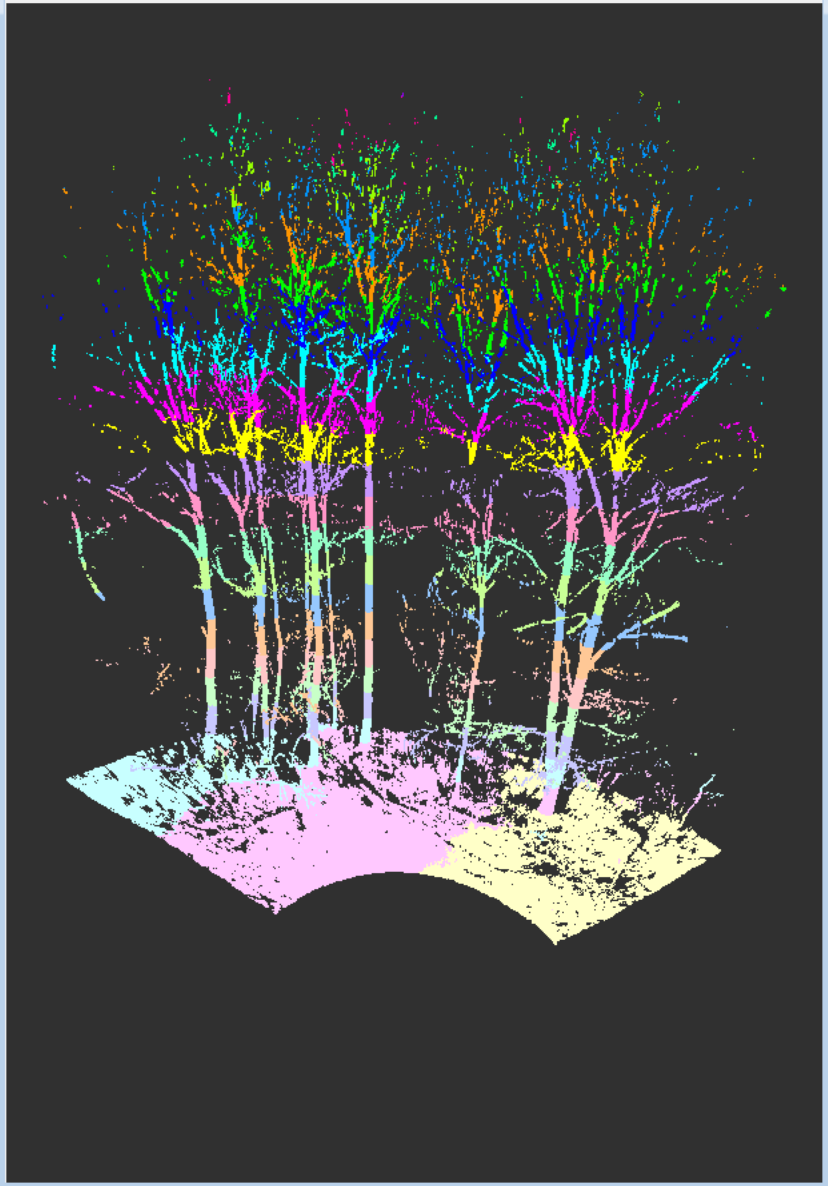
Point cluster

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

Apply ☑ Auto

Document 3

Sync Items Points Faces Edges



Document 2 (ItemModel)

Sync with.. Filter the column... Apply

Sel.

Document 1

Sync Items Points Faces Edges

Actions

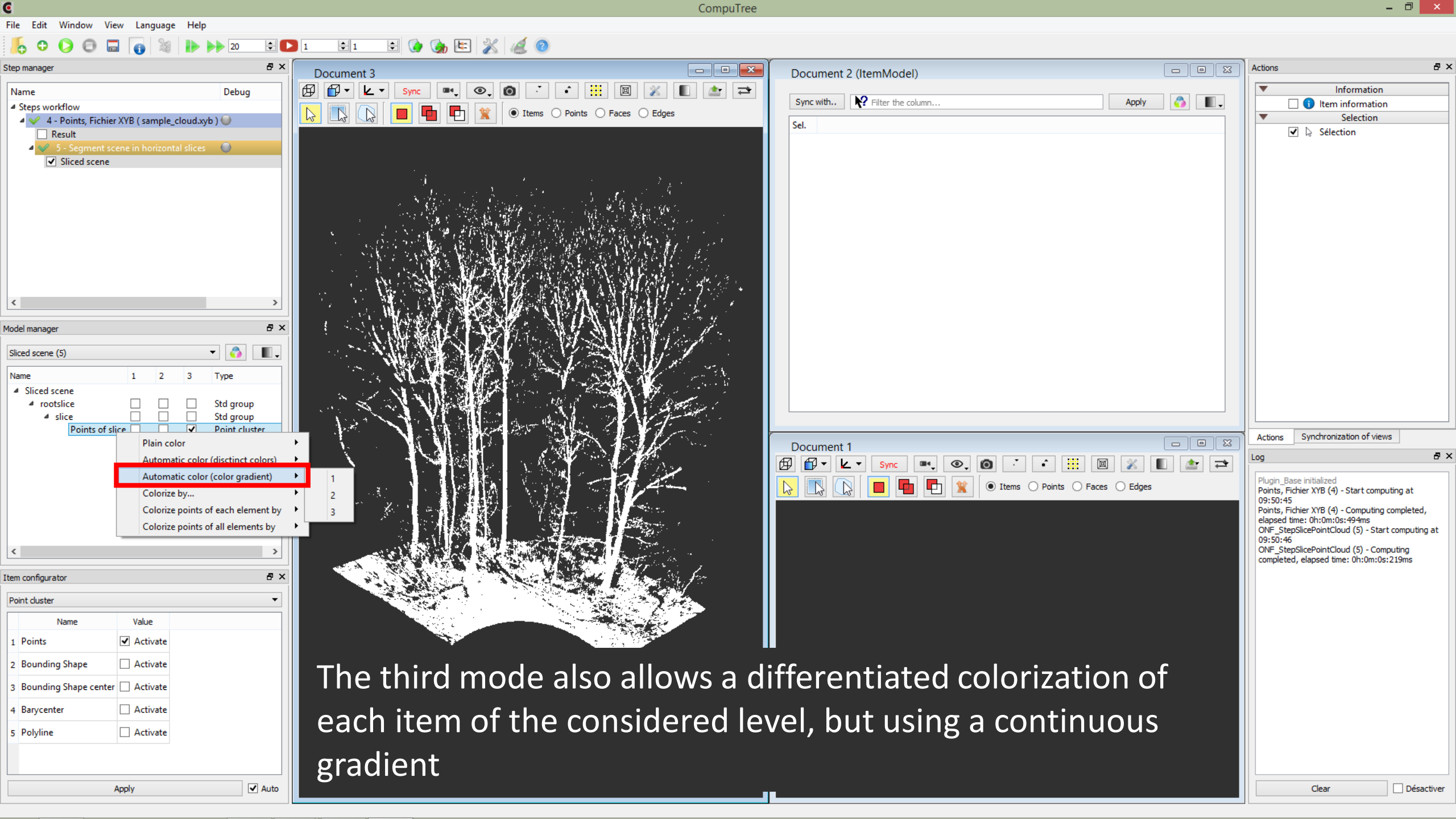
Information
☐ Item information
Selection
☑ Sélection

Actions | Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms

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
Sliced scene (5)
Name 1 2 3 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point cluster
Plain color
Automatic color (disctinct colors)
Automatic color (color gradient)
Colorize by...
Colorize points of each element by
Colorize points of all elements by
1
2
3
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 3
Sync
Items Points Faces Edges
Document 2 (ItemModel)
Sync with..
Filter the column...
Apply
Sel.
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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms
Clear
Désactiver
The third mode also allows a differentiated colorization of each item of the considered level, but using a continuous gradient

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

Sliced scene (5)

lame	1	2	3	Type
Sliced scene				
rootslice	☐	☐	☐	Std group
slice	☐	☐	☐	Std group
Points of slice	☐	☐	☑	Point cluster

Item configurator

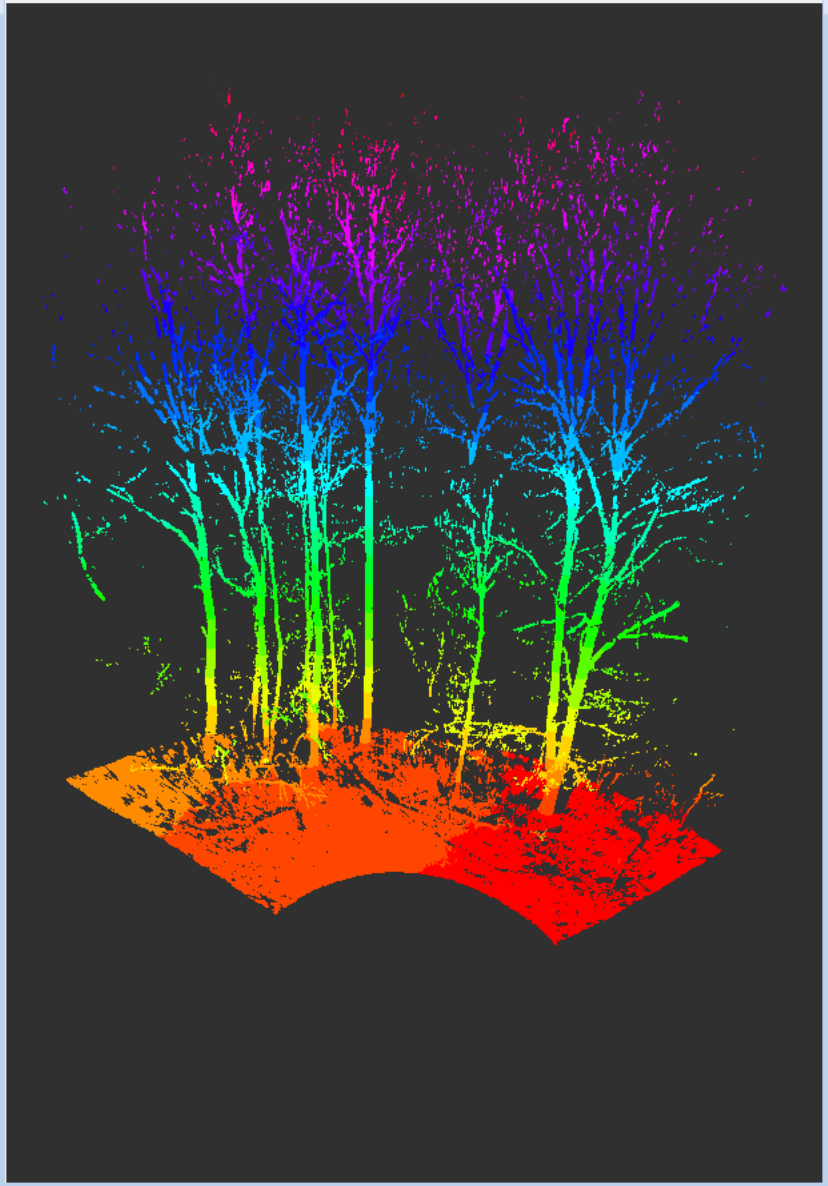
Point cluster

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

Apply ☑ Auto

Document 3

Sync Items Points Faces Edges



Document 2 (ItemModel)

Sync with.. Filter the column... Apply

Sel.

Document 1

Sync Items Points Faces Edges

Actions

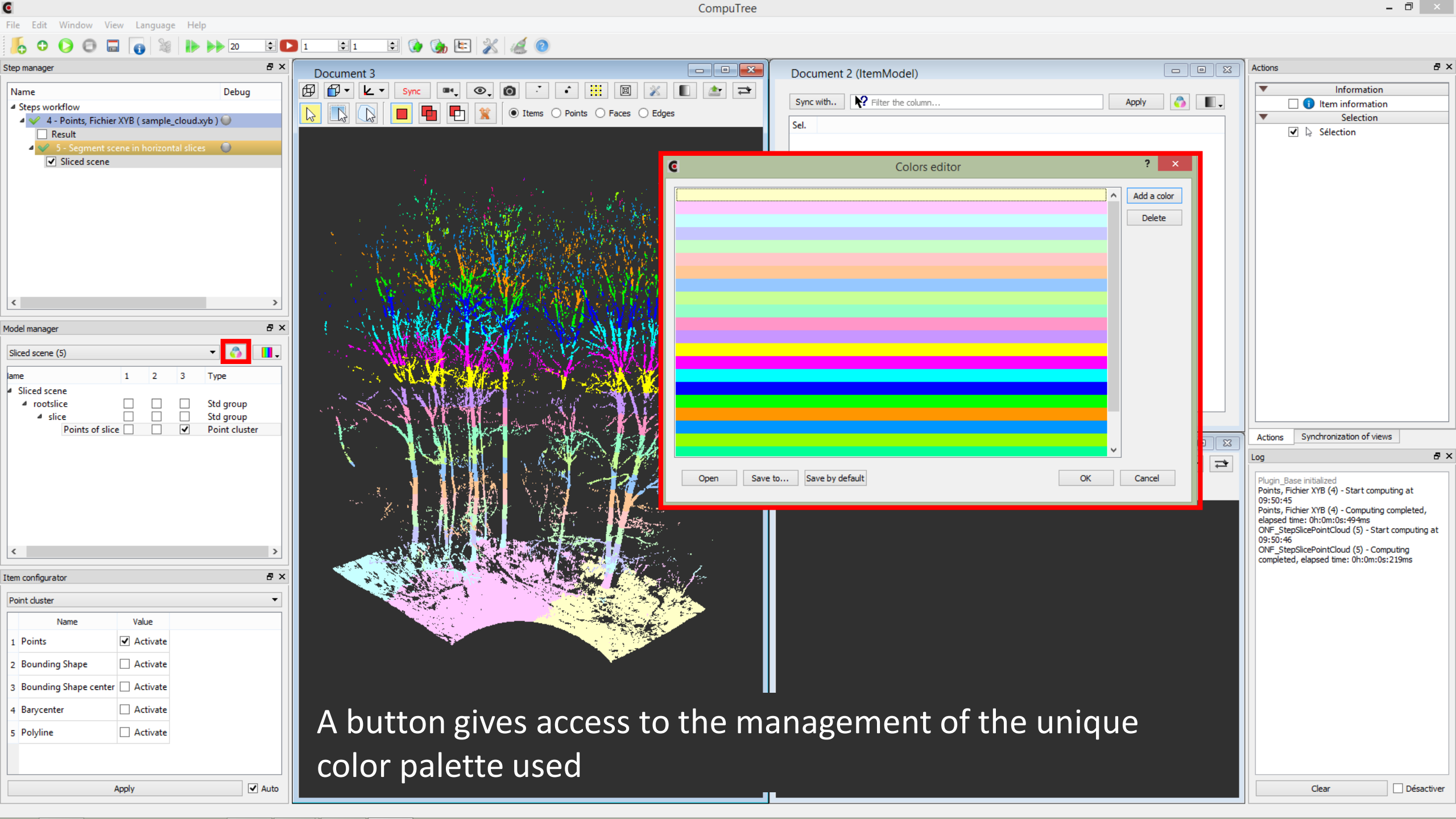
Information
☐ Item information
Selection
☑ Sélection

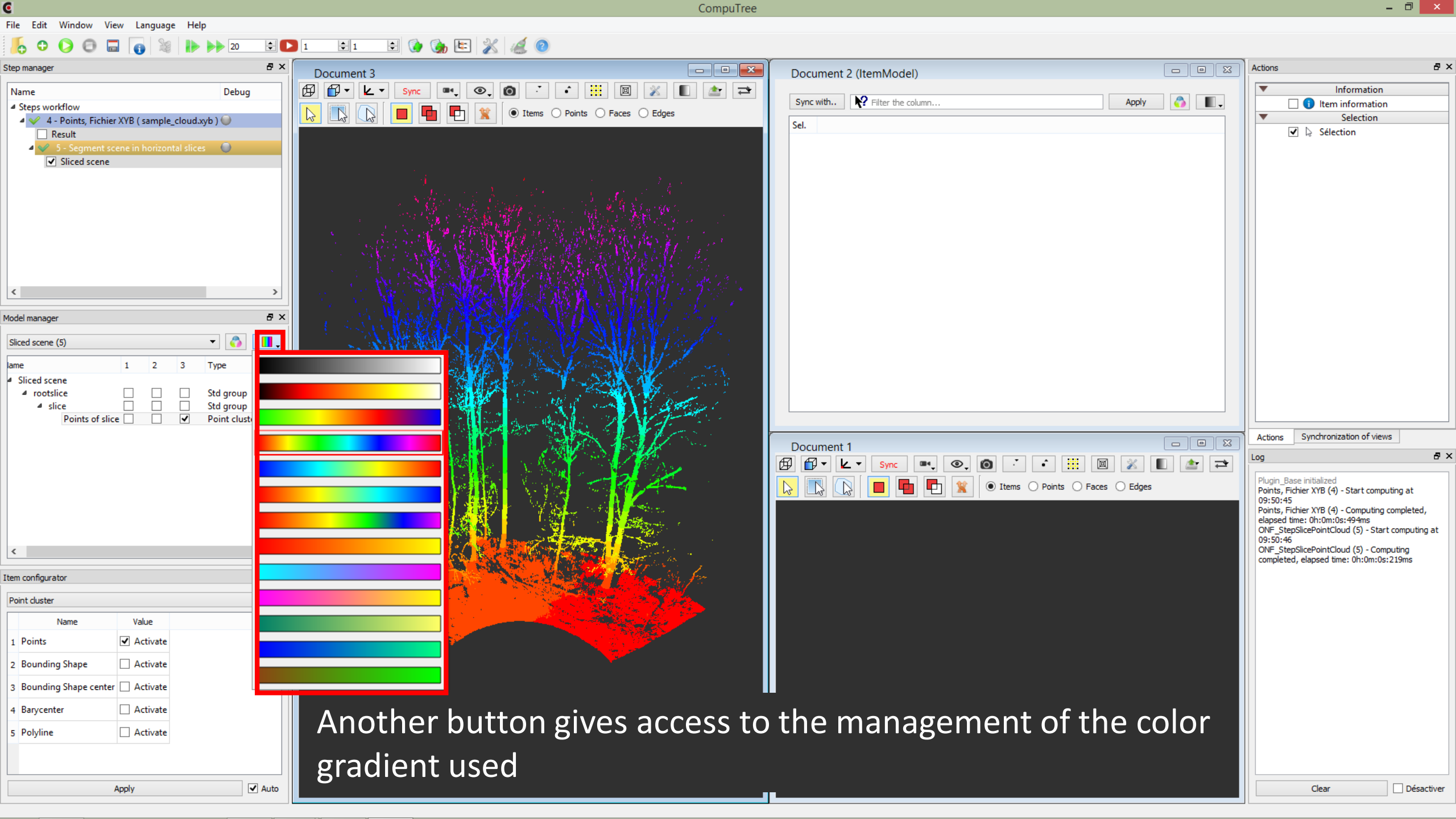
Actions | Synchronization of views

Log

Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms

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
Sliced scene (5)
Name 1 2 3 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 3
Sync
Items Points Faces Edges
Document 2 (ItemModel)
Sync with..
Filter the column...
Apply
Sel.
Colors editor
Add a color
Delete
Open
Save to...
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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms
Clear
Désactiver
A button gives access to the management of the unique color palette used


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
Sliced scene (5)
Name 1 2 3 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point clust
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 3
Sync
Items Points Faces Edges
Document 2 (ItemModel)
Sync with..
Filter the column...
Apply
Sel.
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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms
Clear Désactiver
Another button gives access to the management of the color gradient used

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

Sliced scene (5)

lame	1	2	3	Type
Sliced scene				
rootslice				Std group
slice				Std group
Points of slice				

Plain color
Automatic color (disctinct colors)
Automatic color (color gradient)
Colorize by...
Colorize points of each element by
Colorize points of all elements by

1
2
3

ID
Name
Center X
Center Y
Center Z
Min X
Max X
Min Y
Max Y
Min Z
Max Z
Size X
Size Y
Size Z
Number of points

Item configurator

Point cluster

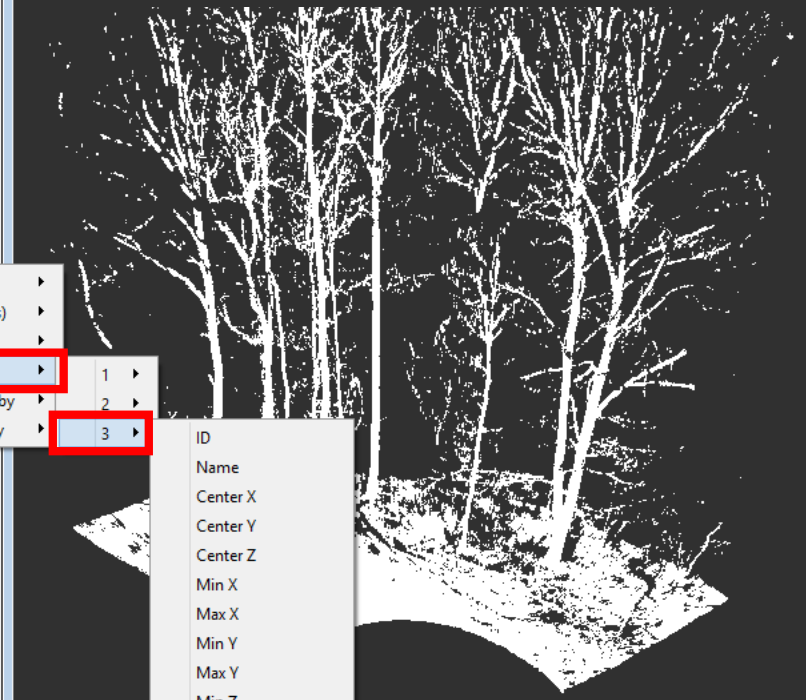
	Name	Value
1	Points	Activate
2	Bounding Shape	Activate
3	Bounding Shape center	Activate
4	Barycenter	Activate
5	Polyline	Activate

Apply Auto

Document 3

Sync Items Points Faces Edges

The fourth mode allows a gradient colorization of the items of the considered level, according to an attribute (eg number of points in the cluster)



Document 2 (ItemModel)

Sync with.. Filter the column... Apply

Sel.

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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms

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

Sliced scene (5)

lame	1	2	3	Type
Sliced scene				
rootslice	☐	☐	☐	Std group
slice	☐	☐	☐	Std group
Points of slice	☐	☐	☑	Point cluster

Item configurator

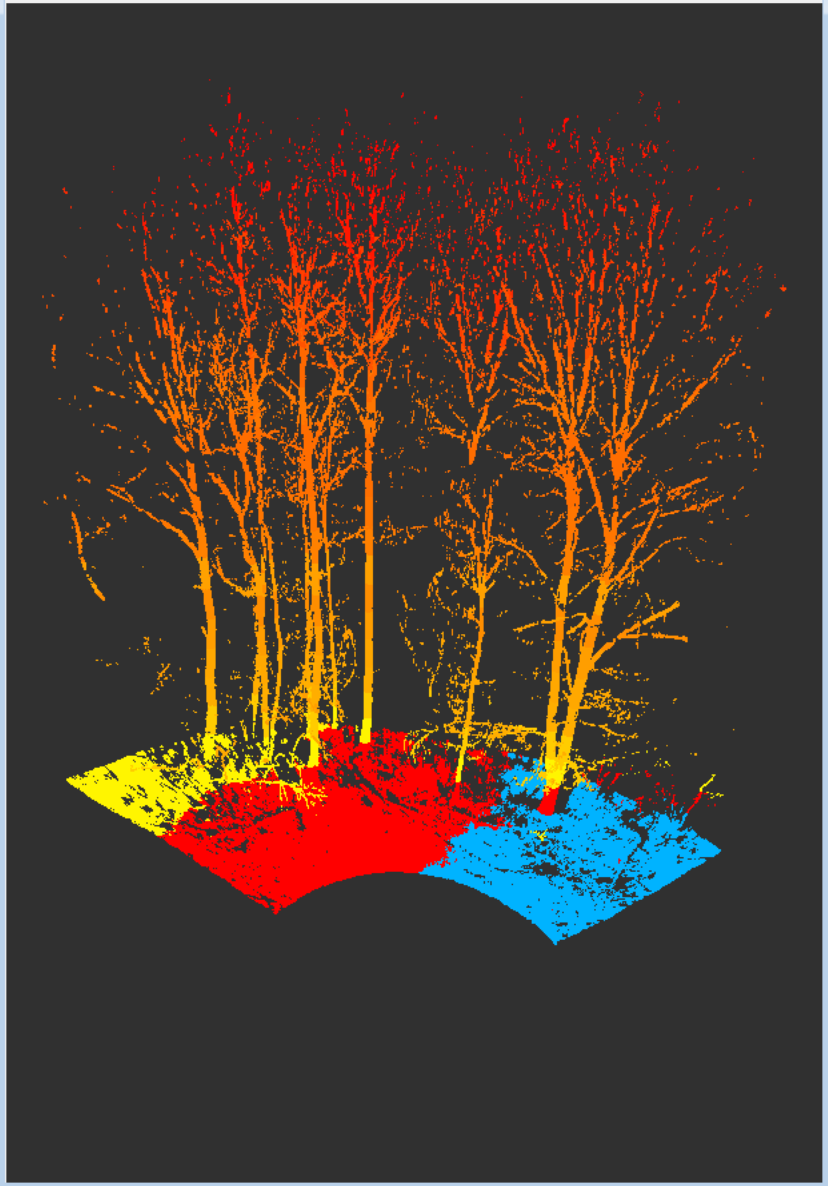
Point cluster

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

Apply ☑ Auto

Document 3

Sync Items Points Faces Edges



Document 2 (ItemModel)

Sync with.. Filter the column... Apply

Sel.

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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms

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

Sliced scene (5)

lame	1	2	3	Type
Sliced scene				
rootslice				Std group
slice				Std group
Points of slice				

Plain color
Automatic color (disctinct colors)
Automatic color (color gradient)
Colorize by...
Colorize points of each element by
Colorize points of all elements by
1
3
X
Y
Z

Item configurator

Point cluster

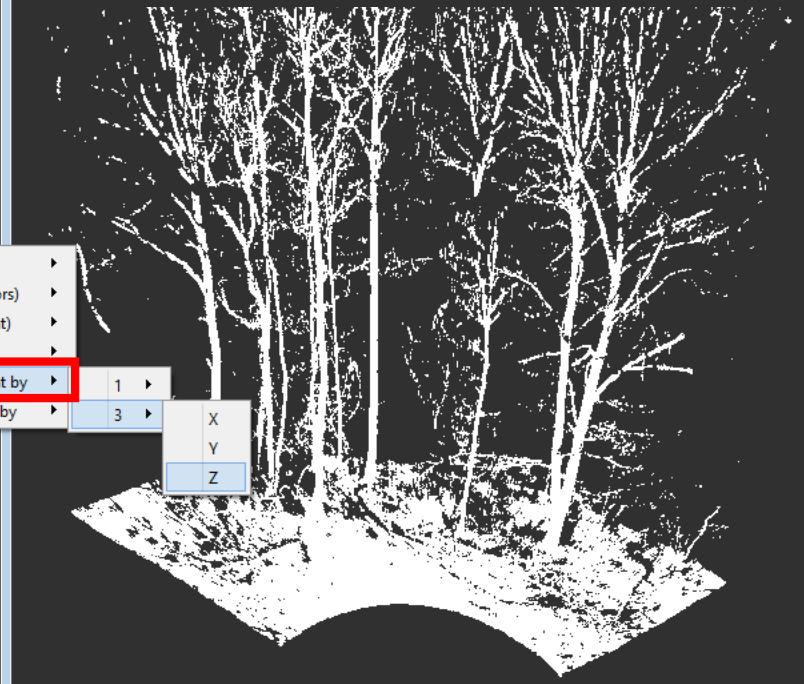
	Name	Value
1	Points	Activate
2	Bounding Shape	Activate
3	Bounding Shape center	Activate
4	Barycenter	Activate
5	Polyline	Activate

Apply Auto

Document 3

Sync Items Points Faces Edges

The fifth mode is only applicable to items containing points, and allows for each item to apply a gradient colorization according to the coordinates X, Y or Z



Document 2 (ItemModel)

Sync with.. Filter the column... Apply

Sel.

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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms

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

Sliced scene (5)

lame	1	2	3	Type
Sliced scene				
rootslice	☐	☐	☐	Std group
slice	☐	☐	☐	Std group
Points of slice	☐	☐	☑	Point cluster

Item configurator

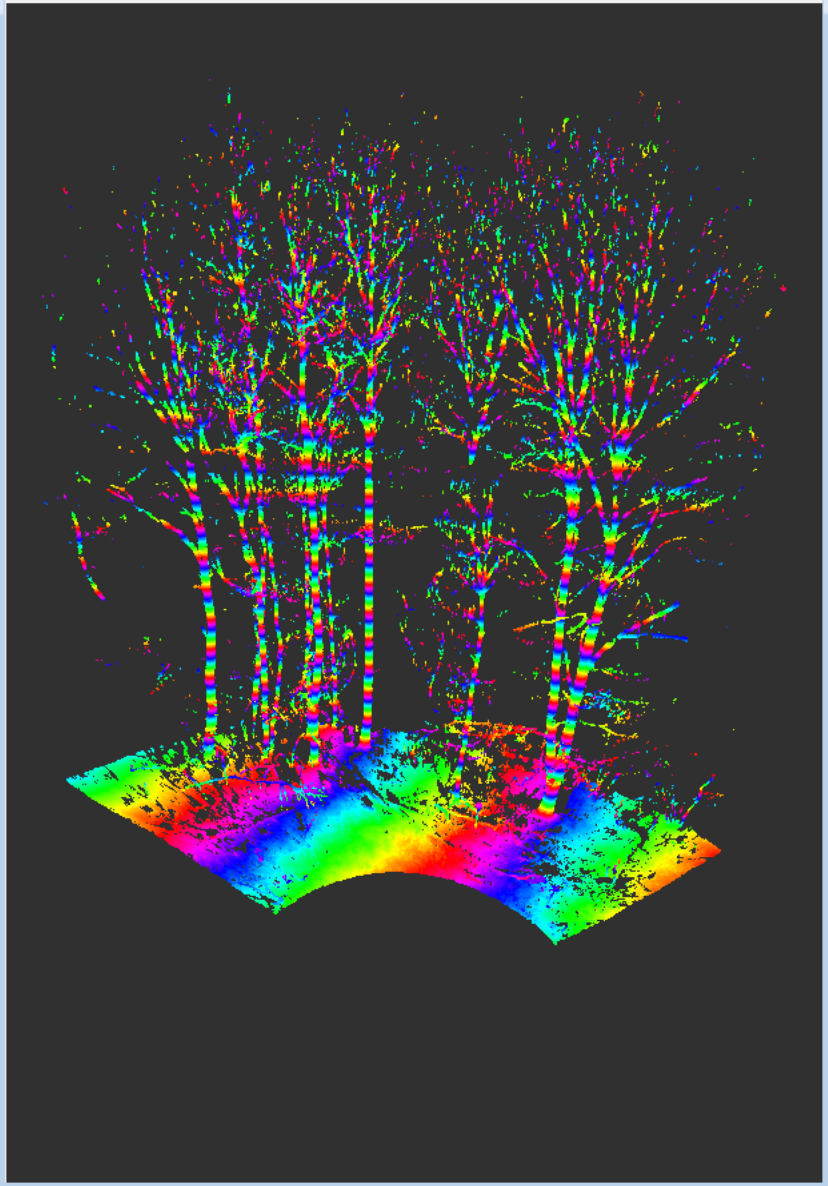
Point cluster

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

Apply ☑ Auto

Document 3

Sync Items Points Faces Edges



Document 2 (ItemModel)

Sync with.. Filter the column... Apply

Sel.

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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms

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

Sliced scene (5)

lame	1	2	3	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 3

Sync Items Points Faces Edges

The sixth mode is only applicable to items containing points, and allows a gradient colorization according to the X, Y or Z coordinates for all displayed items

Document 2 (ItemModel)

Sync with.. Filter the column... Apply

Sel.

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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms

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

Sliced scene (5)

lame	1	2	3	Type
Sliced scene				
rootslice	☐	☐	☐	Std group
slice	☐	☐	☐	Std group
Points of slice	☐	☐	☑	Point cluster

Item configurator

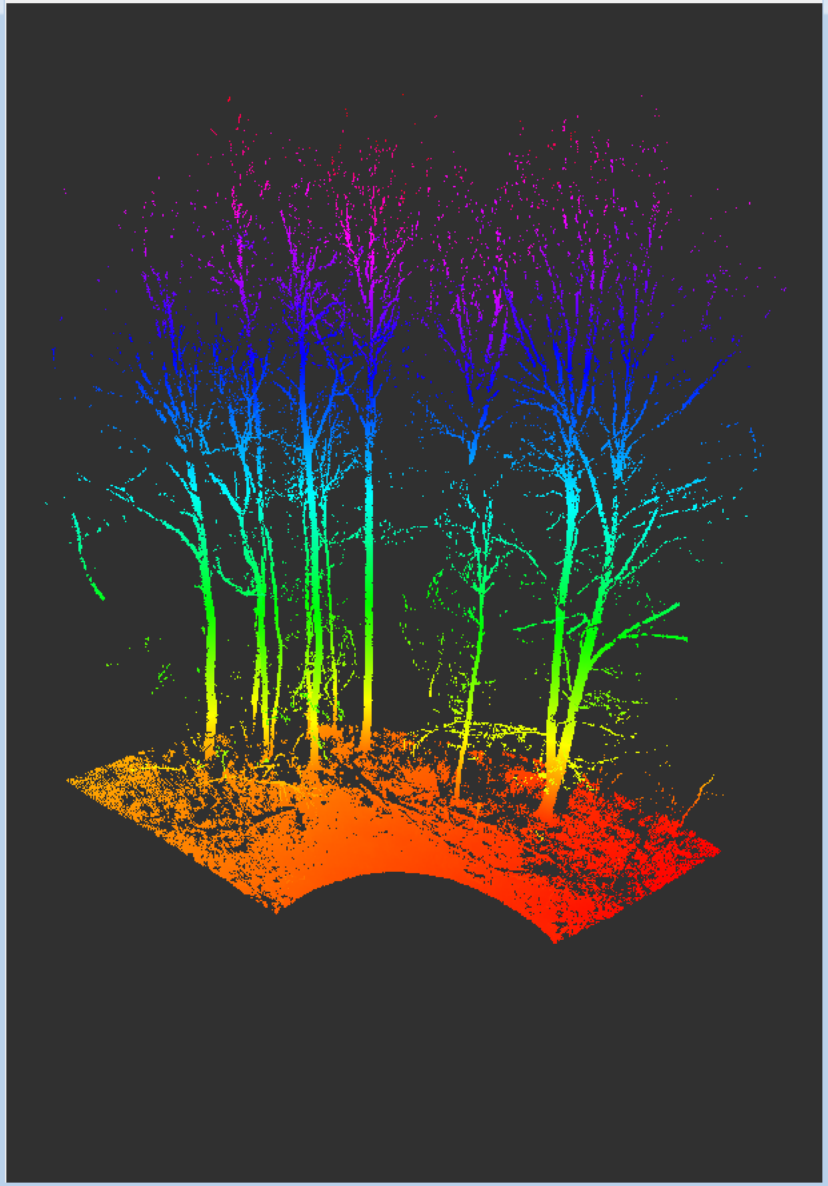
Point cluster

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

Apply ☑ Auto

Document 3

Sync Items Points Faces Edges



Document 2 (ItemModel)

Sync with.. Filter the column... Apply

Sel.

Document 1

Sync Items Points Faces Edges

Actions

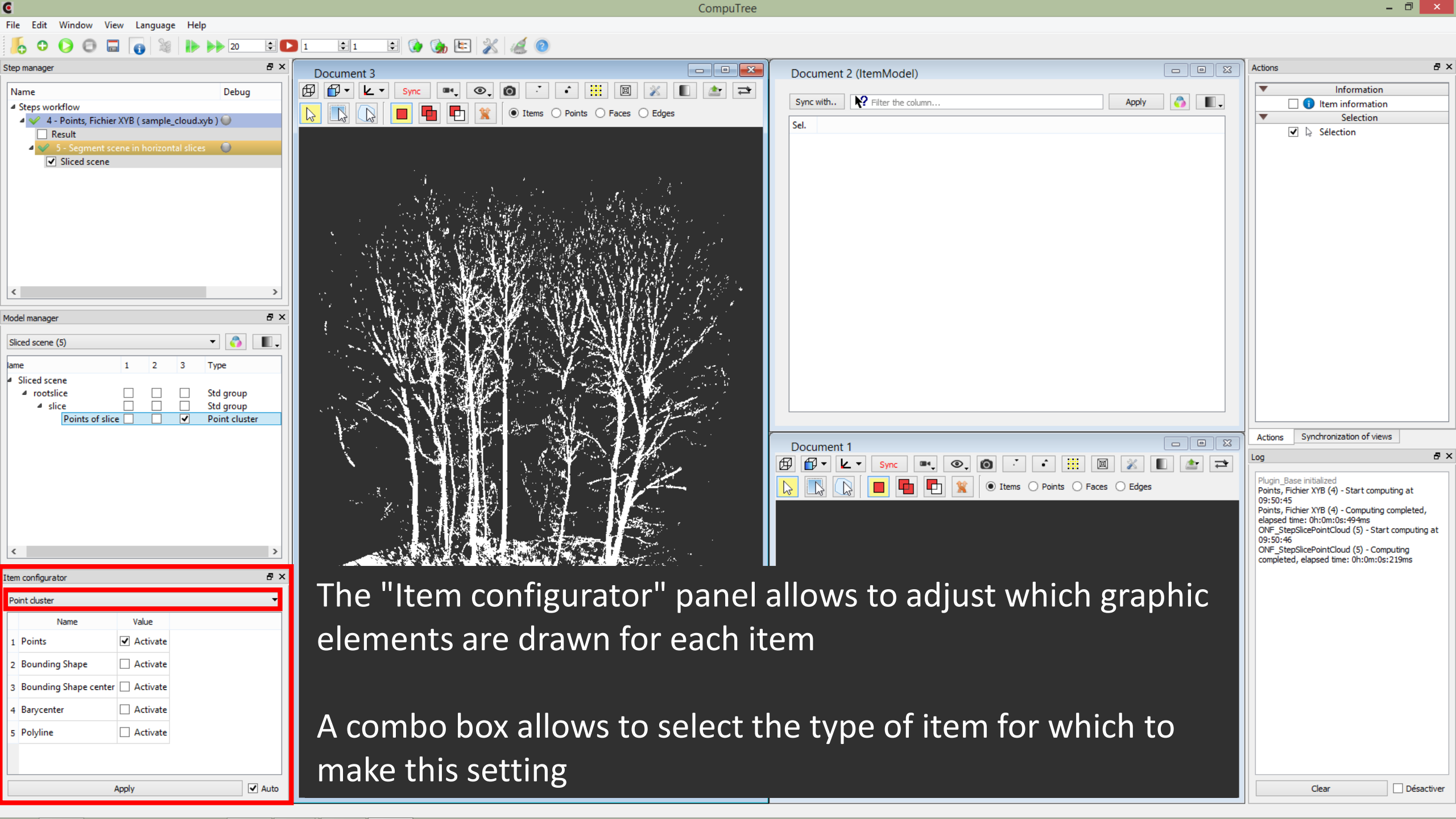
Information
☐ Item information
Selection
☑ Sélection

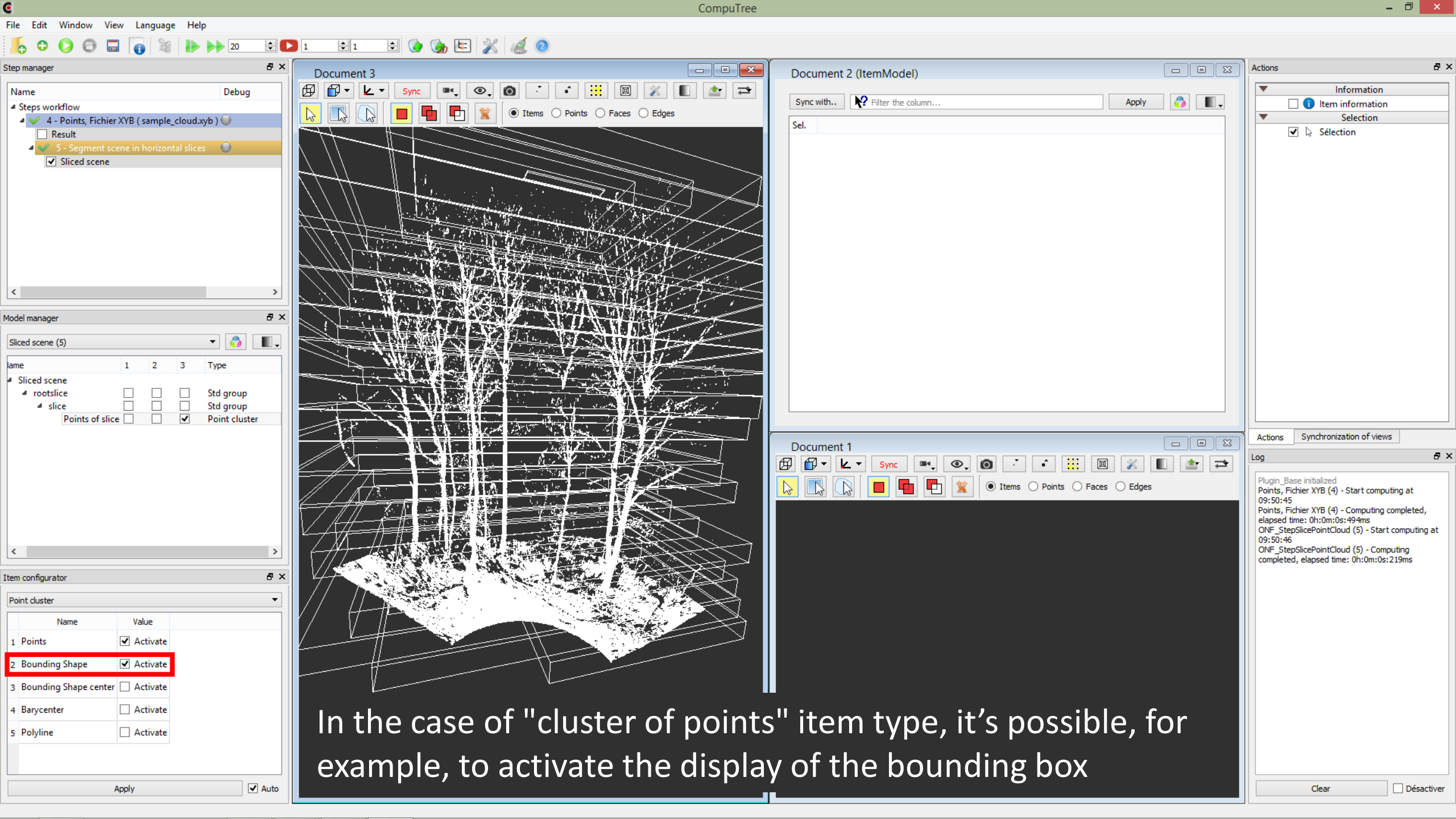
Actions | Synchronization of views

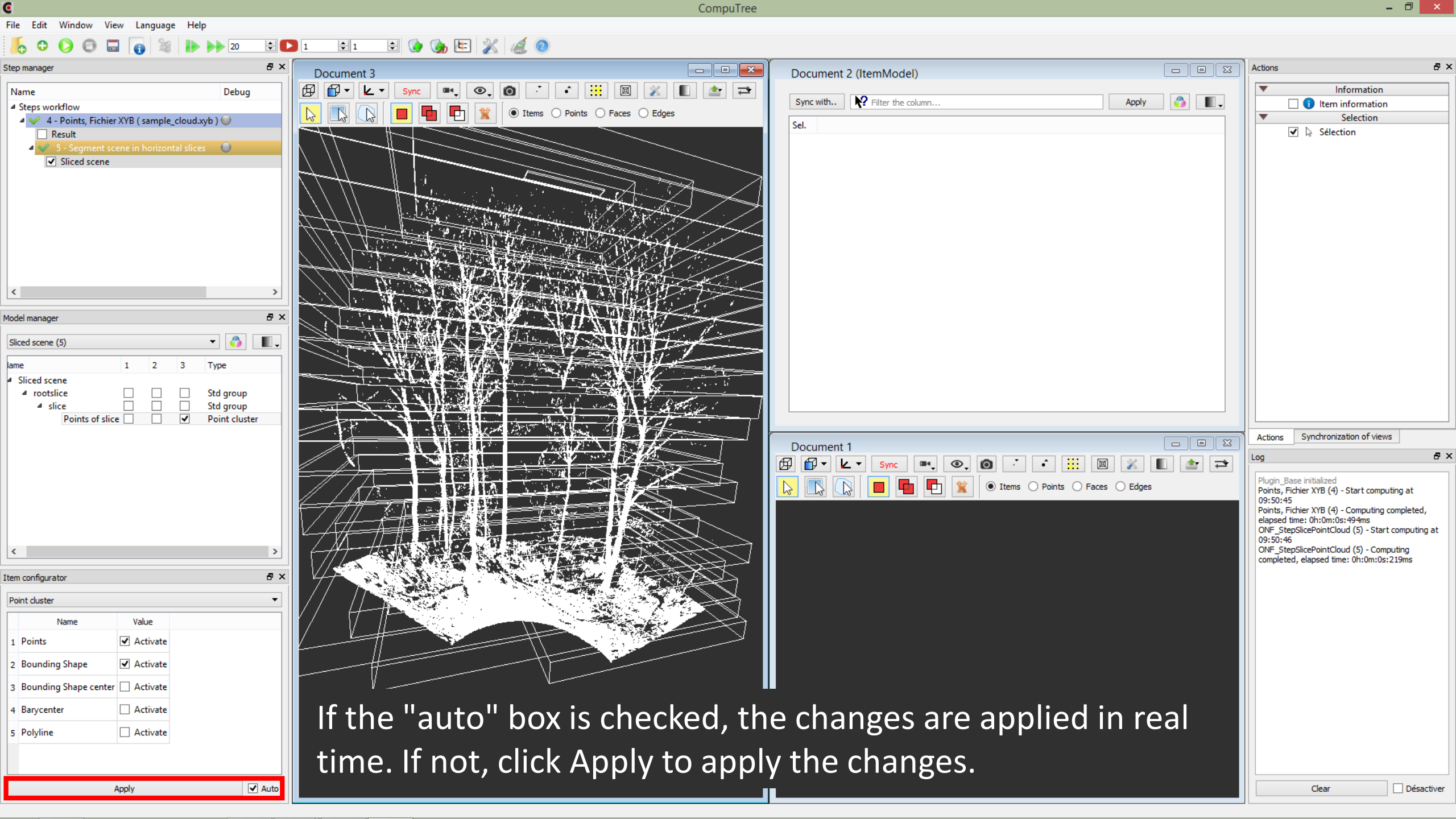
Log

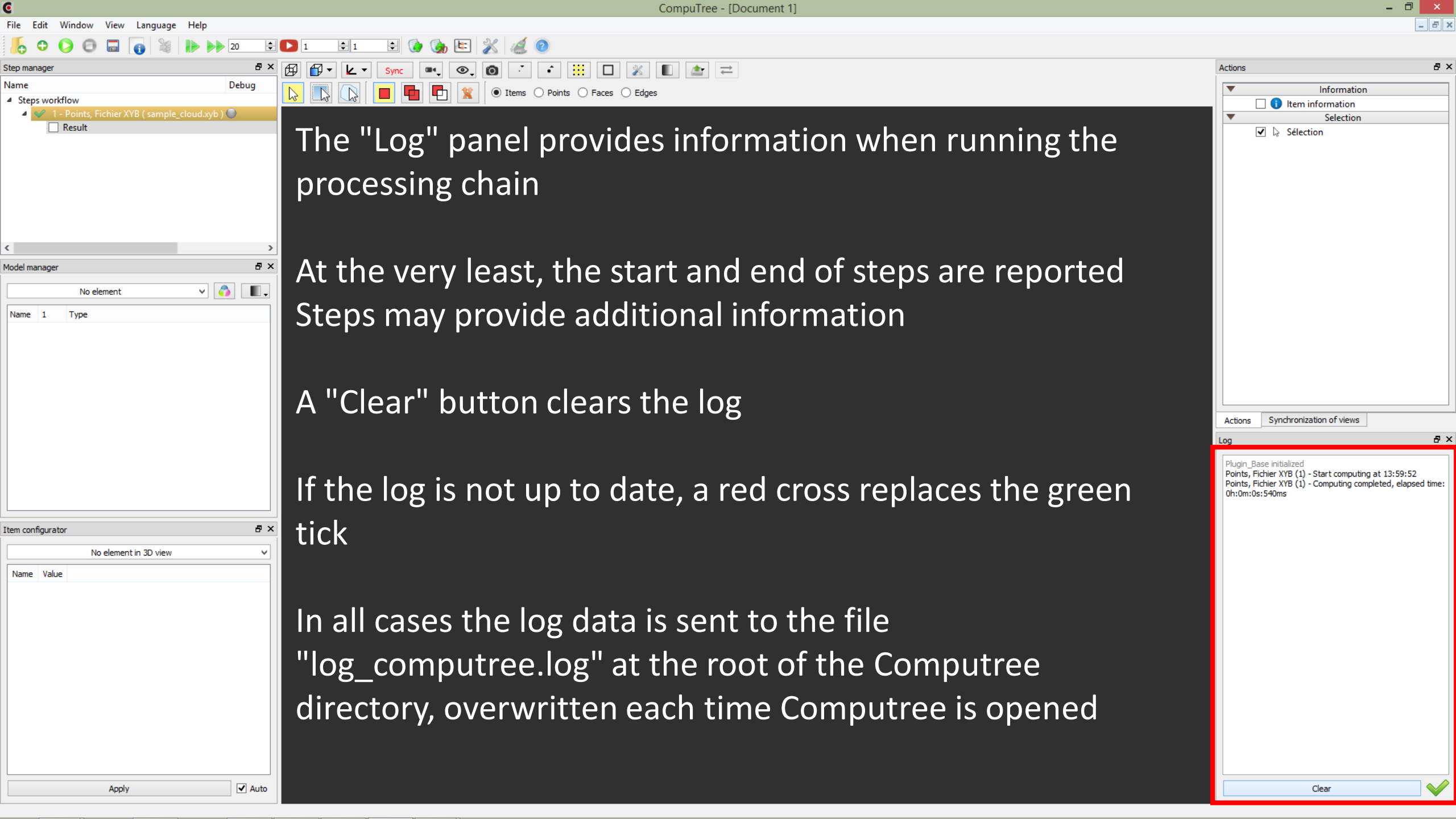
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms

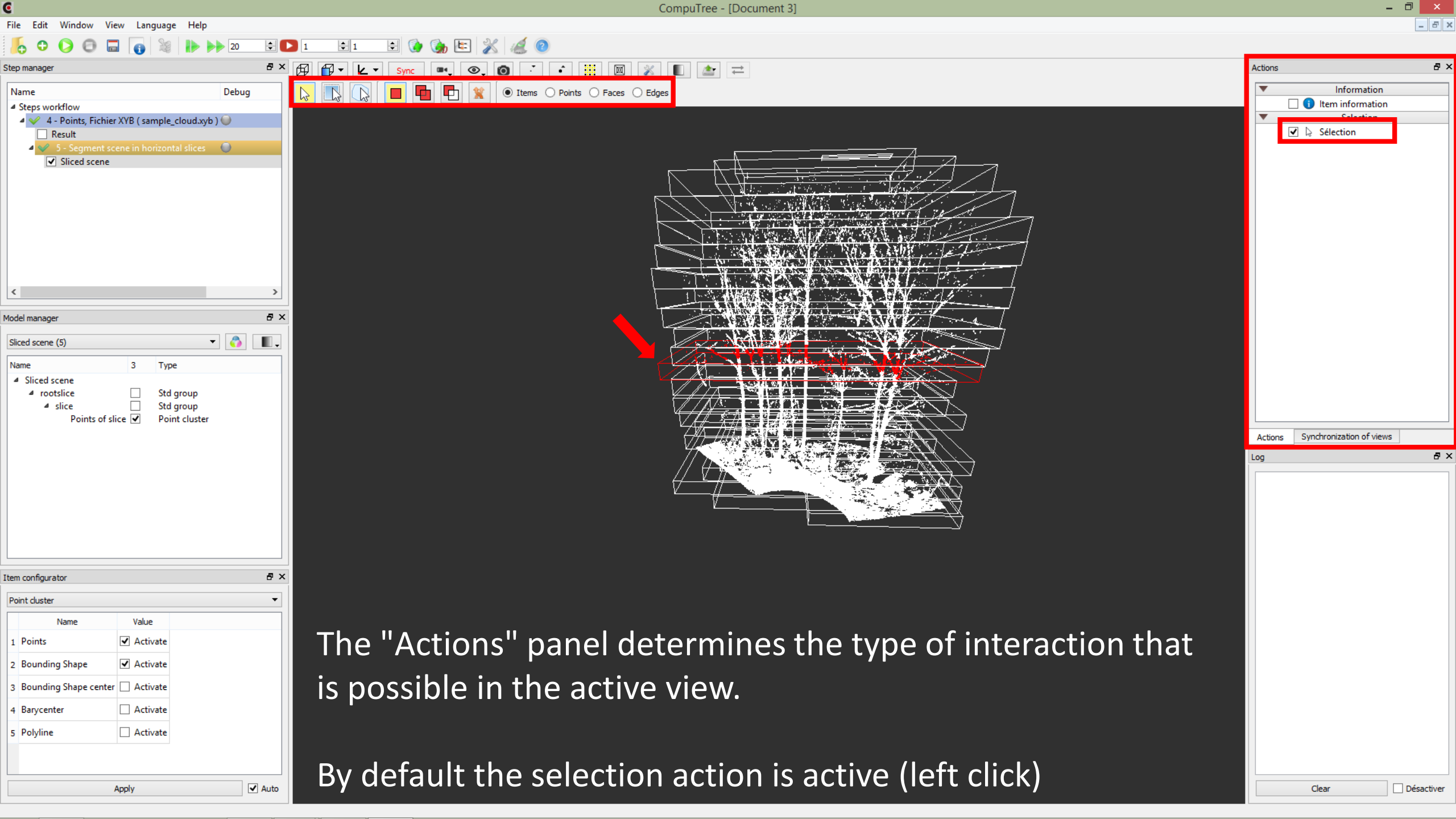
Clear ☐ Désactiver

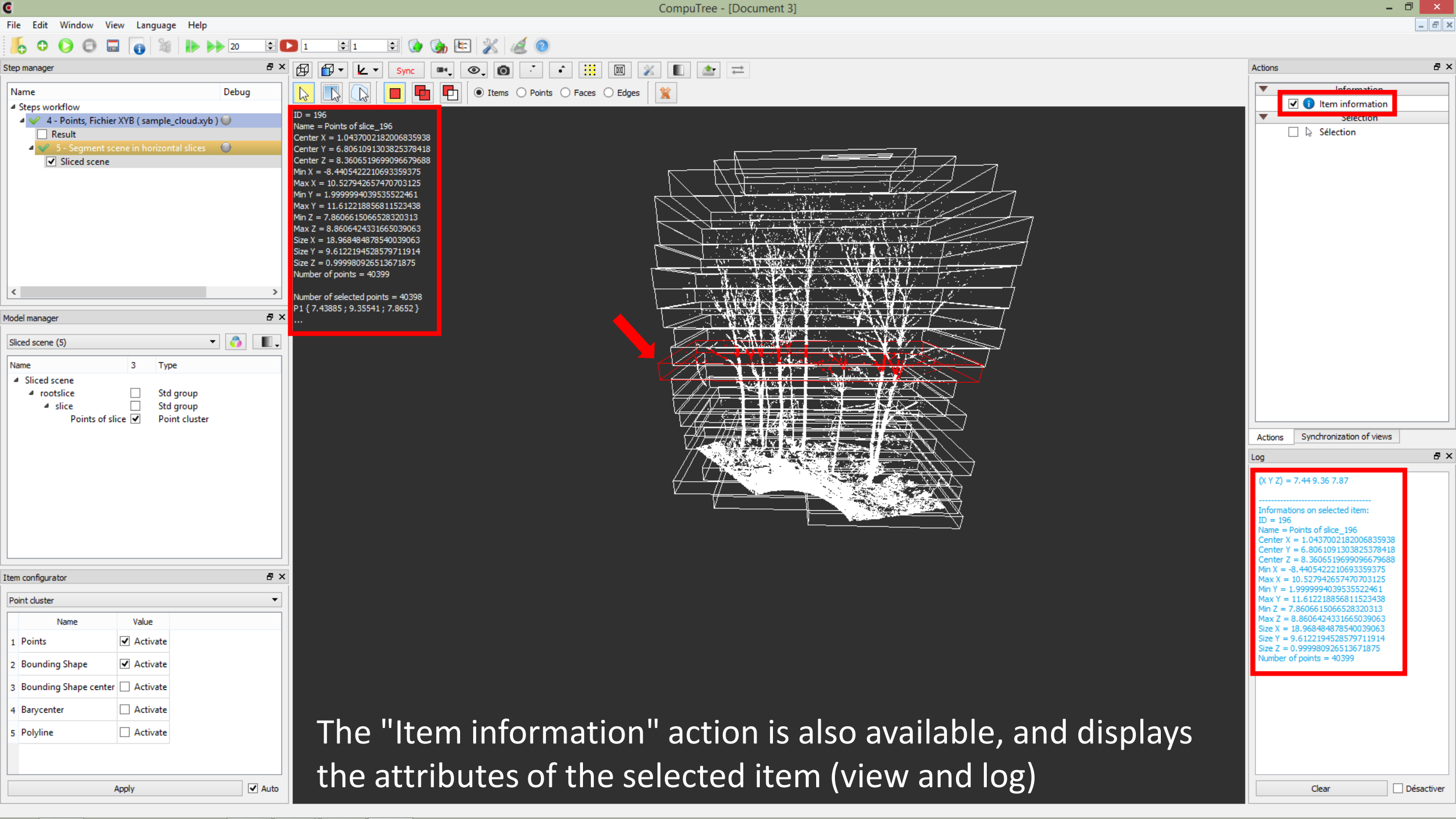

CompuTree
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
Sliced scene (5)
lame 1 2 3 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point 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 3
Sync
Items Points Faces Edges
Document 2 (ItemModel)
Sync with..
Filter the column...
Apply
Sel.
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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms
Clear Désactiver
The "Item configurator" panel allows to adjust which graphic elements are drawn for each item
A combo box allows to select the type of item for which to make this setting

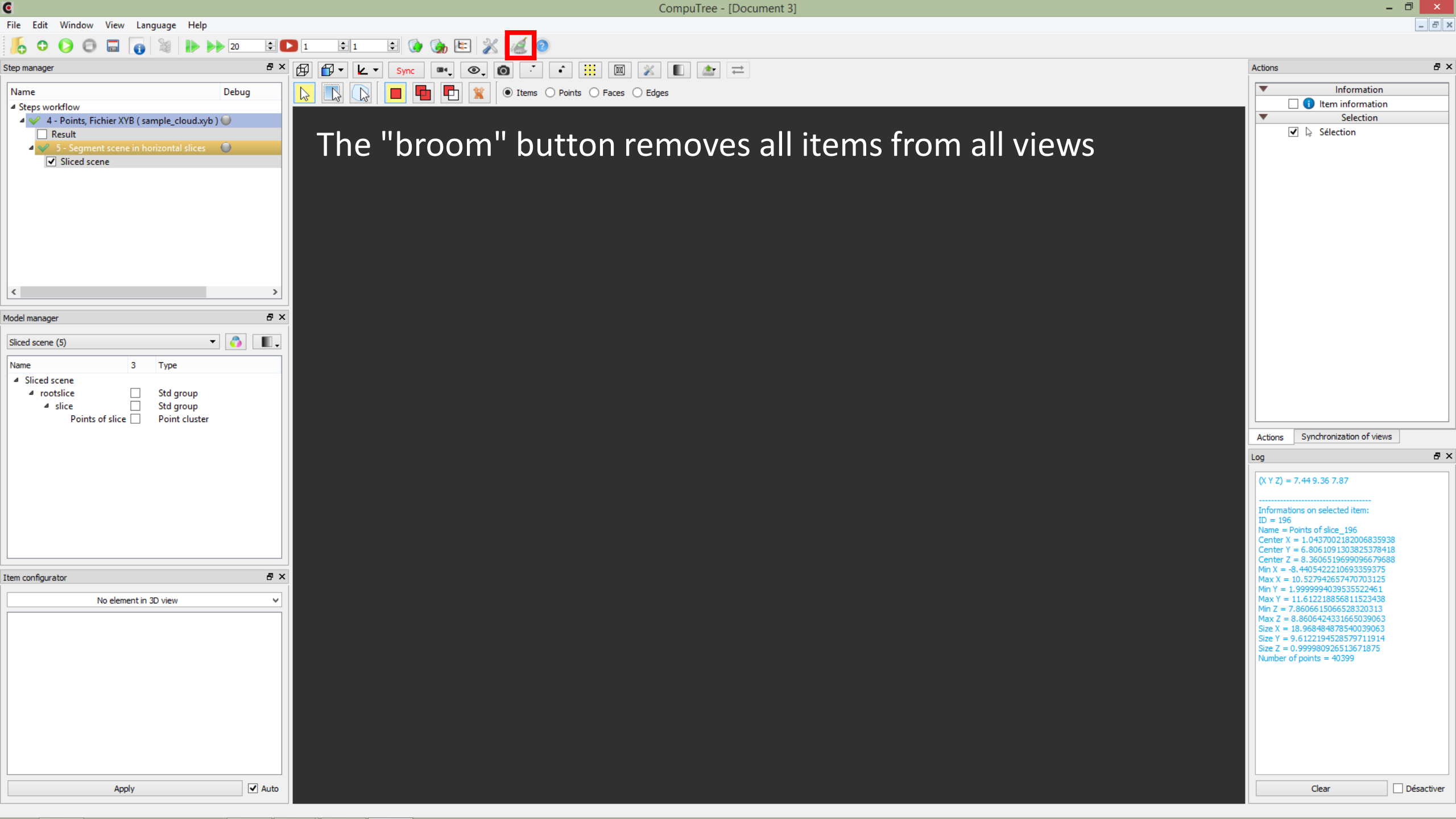

CompuTree
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
Sliced scene (5)
lame 1 2 3 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point 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 3
Sync
Items Points Faces Edges
Document 2 (ItemModel)
Sync with..
Filter the column...
Apply
Sel.
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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms
Clear Désactiver
In the case of "cluster of points" item type, it’s possible, for example, to activate the display of the bounding box

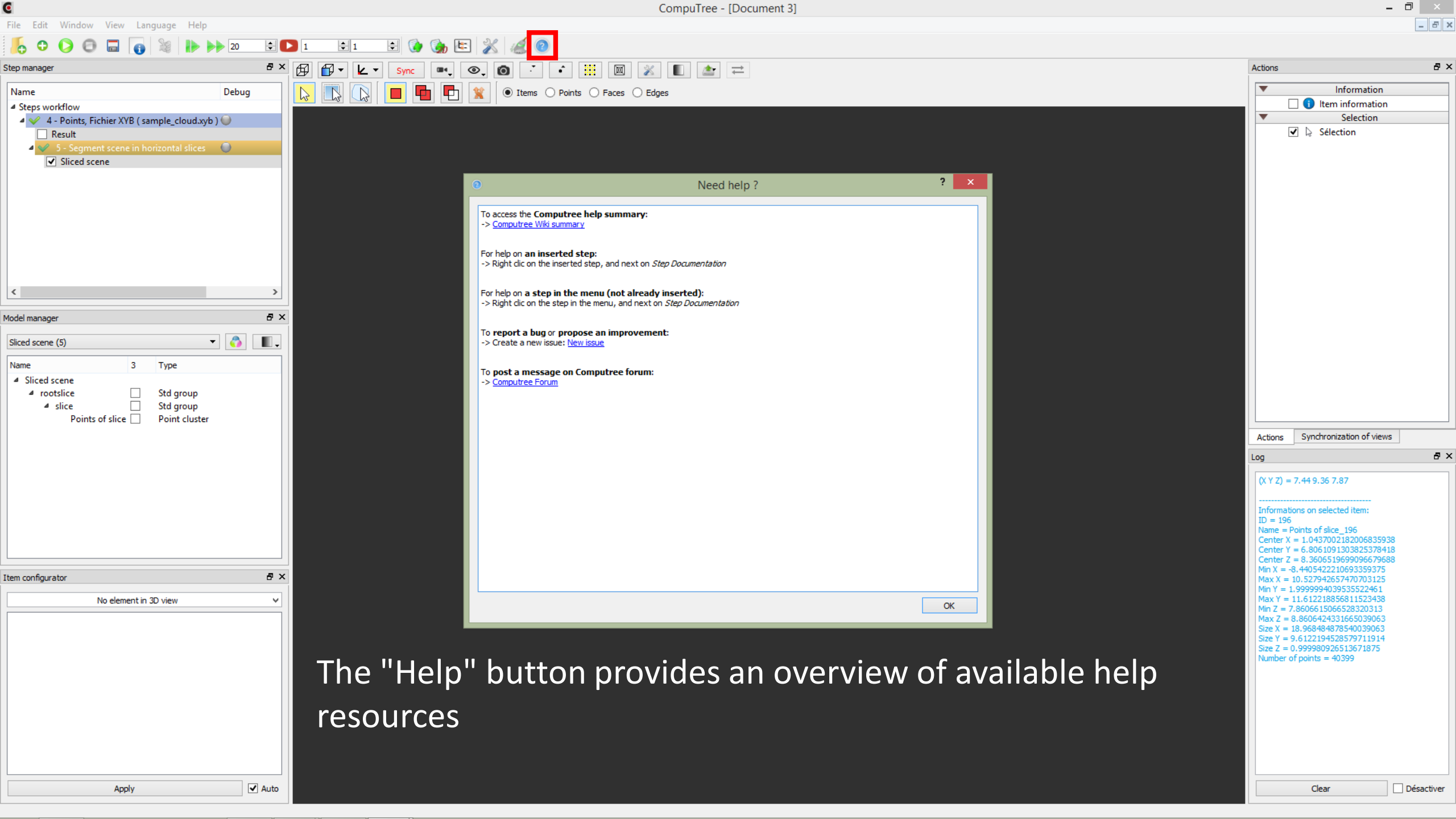

CompuTree
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
Sliced scene (5)
lame 1 2 3 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point 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 3
Sync
Items Points Faces Edges
Document 2 (ItemModel)
Sync with..
Filter the column...
Apply
Sel.
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 09:50:45
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:494ms
ONF_StepSlicePointCloud (5) - Start computing at 09:50:46
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:219ms
Clear
Désactiver
If the "auto" box is checked, the changes are applied in real time. If not, click Apply to apply the changes.

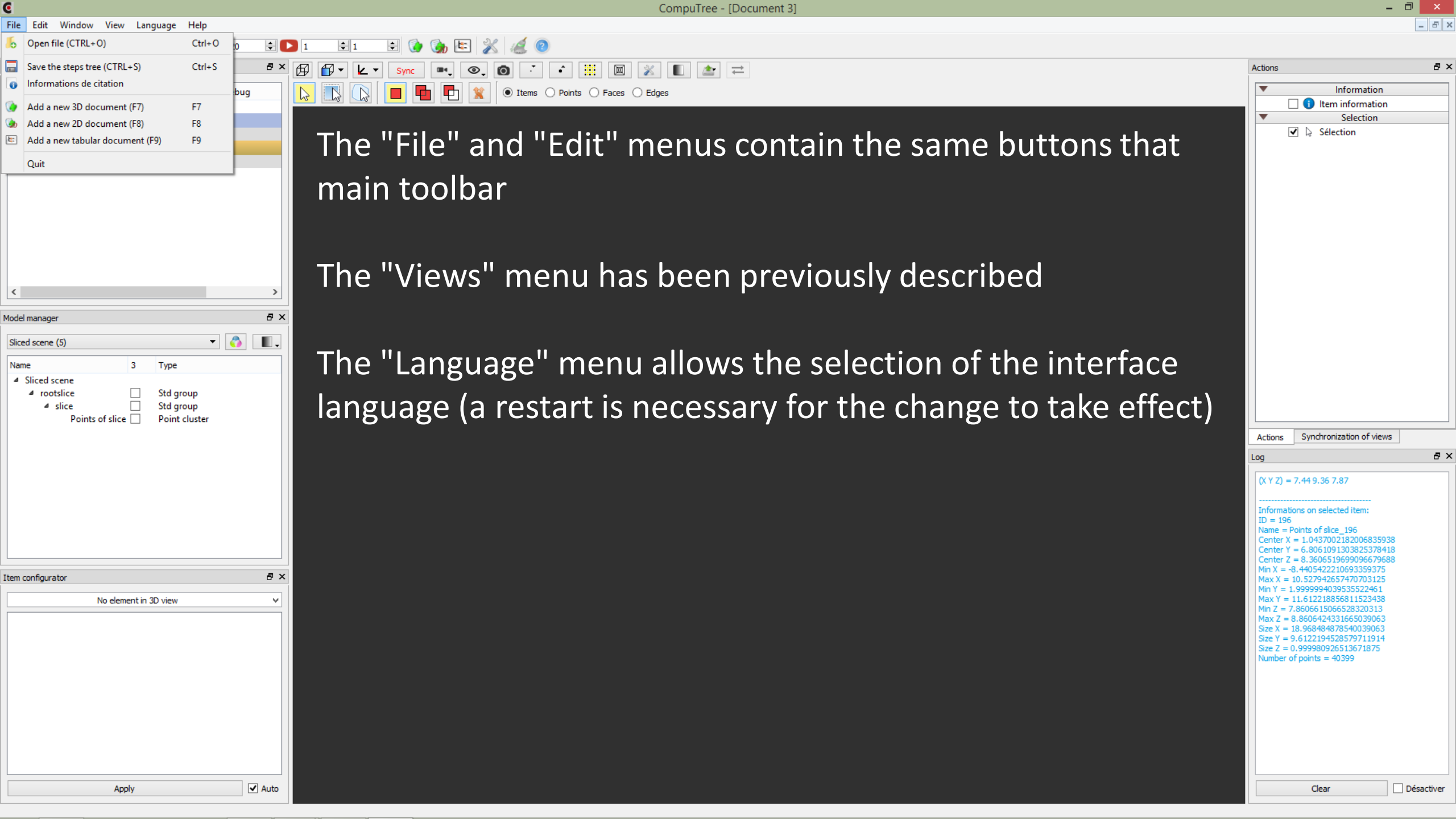

CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
1 - Points, Fichier XYB (sample_cloud.xyb)
Result
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply
Auto
Sync
Items Points Faces Edges
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (1) - Start computing at 13:59:52
Points, Fichier XYB (1) - Computing completed, elapsed time: 0h:0m:0s:540ms
Clear
The "Log" panel provides information when running the processing chain
At the very least, the start and end of steps are reported Steps may provide additional information
A "Clear" button clears the log
If the log is not up to date, a red cross replaces the green tick
In all cases the log data is sent to the file "log_computree.log" at the root of the Computree directory, overwritten each time Computree is opened


CompuTree - [Document 3]
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
Sync
Items Points Faces Edges
Model manager
Sliced scene (5)
Name 3 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
Actions
Information
Item information
Sélection
Actions Synchronization of views
Log
Clear Désactiver
The "Actions" panel determines the type of interaction that is possible in the active view.
By default the selection action is active (left click)


CompuTree - [Document 3]
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 3 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
ID = 196
Name = Points of slice_196
Center X = 1.0437002182006835938
Center Y = 6.8061091303825378418
Center Z = 8.3606519699096679688
Min X = -8.4405422210693359375
Max X = 10.527942657470703125
Min Y = 1.9999994039535522461
Max Y = 11.612218856811523438
Min Z = 7.8606615066528320313
Max Z = 8.8606424331665039063
Size X = 18.968484878540039063
Size Y = 9.6122194528579711914
Size Z = 0.999980926513671875
Number of points = 40399
Number of selected points = 40398
P1 { 7.43885 ; 9.35541 ; 7.8652 }
...
Actions
Information
Item information
Selection
Sélection
Actions Synchronization of views
Log
(X Y Z) = 7.44 9.36 7.87
Informations on selected item:
ID = 196
Name = Points of slice_196
Center X = 1.0437002182006835938
Center Y = 6.8061091303825378418
Center Z = 8.3606519699096679688
Min X = -8.4405422210693359375
Max X = 10.527942657470703125
Min Y = 1.9999994039535522461
Max Y = 11.612218856811523438
Min Z = 7.8606615066528320313
Max Z = 8.8606424331665039063
Size X = 18.968484878540039063
Size Y = 9.6122194528579711914
Size Z = 0.999980926513671875
Number of points = 40399
Clear Désactiver
The "Item information" action is also available, and displays the attributes of the selected item (view and log)


CompuTree - [Document 3]
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 3 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
The "broom" button removes all items from all views
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
(X Y Z) = 7.44 9.36 7.87
Informations on selected item:
ID = 196
Name = Points of slice_196
Center X = 1.0437002182006835938
Center Y = 6.8061091303825378418
Center Z = 8.3606519699096679688
Min X = -8.4405422210693359375
Max X = 10.527942657470703125
Min Y = 1.9999994039535522461
Max Y = 11.612218856811523438
Min Z = 7.8606615066528320313
Max Z = 8.8606424331665039063
Size X = 18.968484878540039063
Size Y = 9.6122194528579711914
Size Z = 0.999980926513671875
Number of points = 40399
Clear
Désactiver

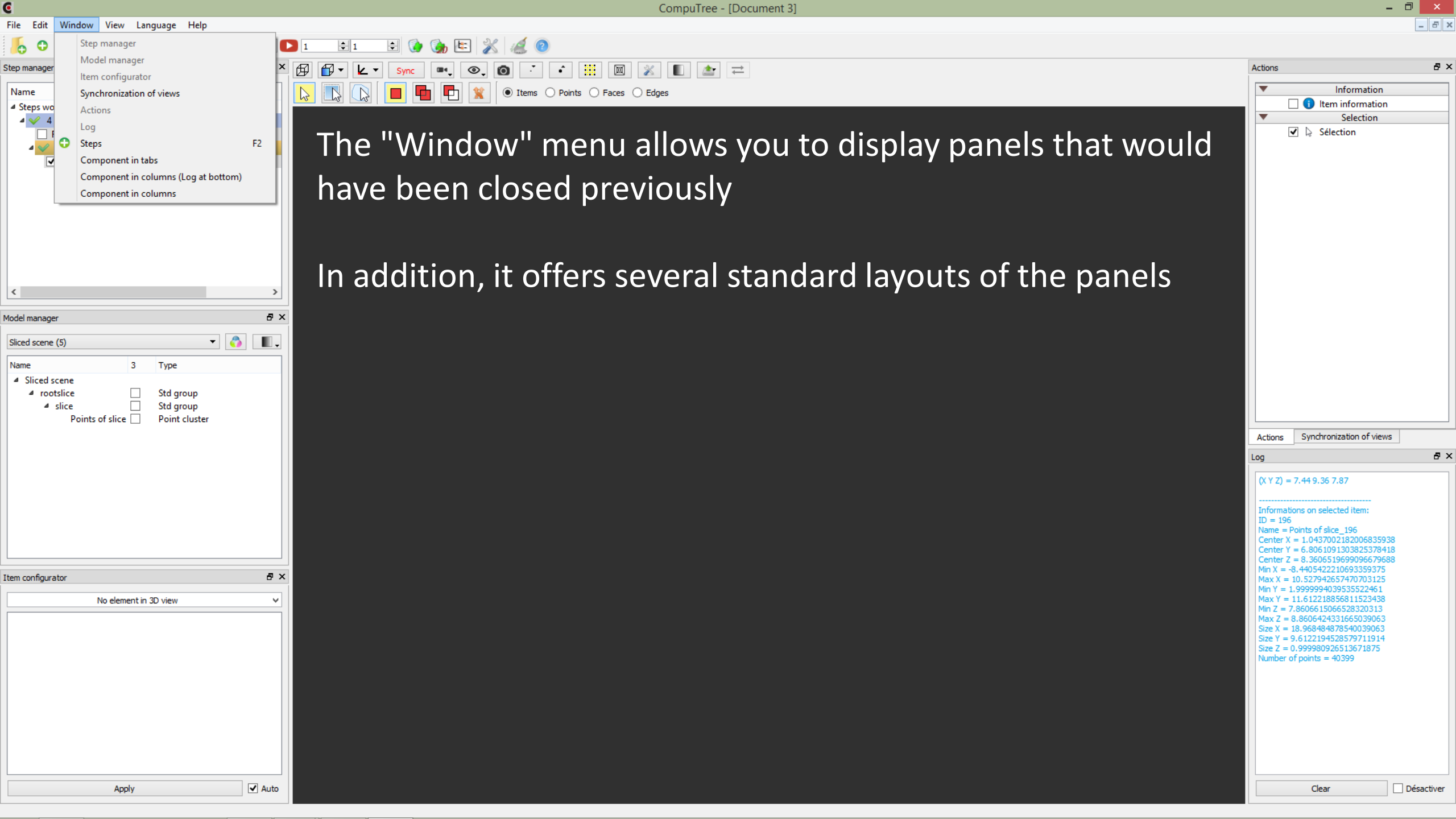

CompuTree - [Document 3]
File Edit Window View Language Help
Step manager
Name Debug
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Model manager
Sliced scene (5)
Name 3 Type
Sliced scene
rootslice Std group
slice Std group
Points of slice Point cluster
Item configurator
No element in 3D view
Apply
Auto
Sync
Items Points Faces Edges
Need help ?
To access the Computree help summary:
-> Computree Wiki summary
For help on an inserted step:
-> Right clic on the inserted step, and next on Step Documentation
For help on a step in the menu (not already inserted):
-> Right clic on the step in the menu, and next on Step Documentation
To report a bug or propose an improvement:
-> Create a new issue: New issue
To post a message on Computree forum:
-> Computree Forum
OK
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
(X Y Z) = 7.44 9.36 7.87
Informations on selected item:
ID = 196
Name = Points of slice_196
Center X = 1.0437002182006835938
Center Y = 6.8061091303825378418
Center Z = 8.3606519699096679688
Min X = -8.4405422210693359375
Max X = 10.527942657470703125
Min Y = 1.9999994039535522461
Max Y = 11.612218856811523438
Min Z = 7.8606615066528320313
Max Z = 8.8606424331665039063
Size X = 18.968484878540039063
Size Y = 9.6122194528579711914
Size Z = 0.999980926513671875
Number of points = 40399
Clear
Désactiver
The "Help" button provides an overview of available help resources

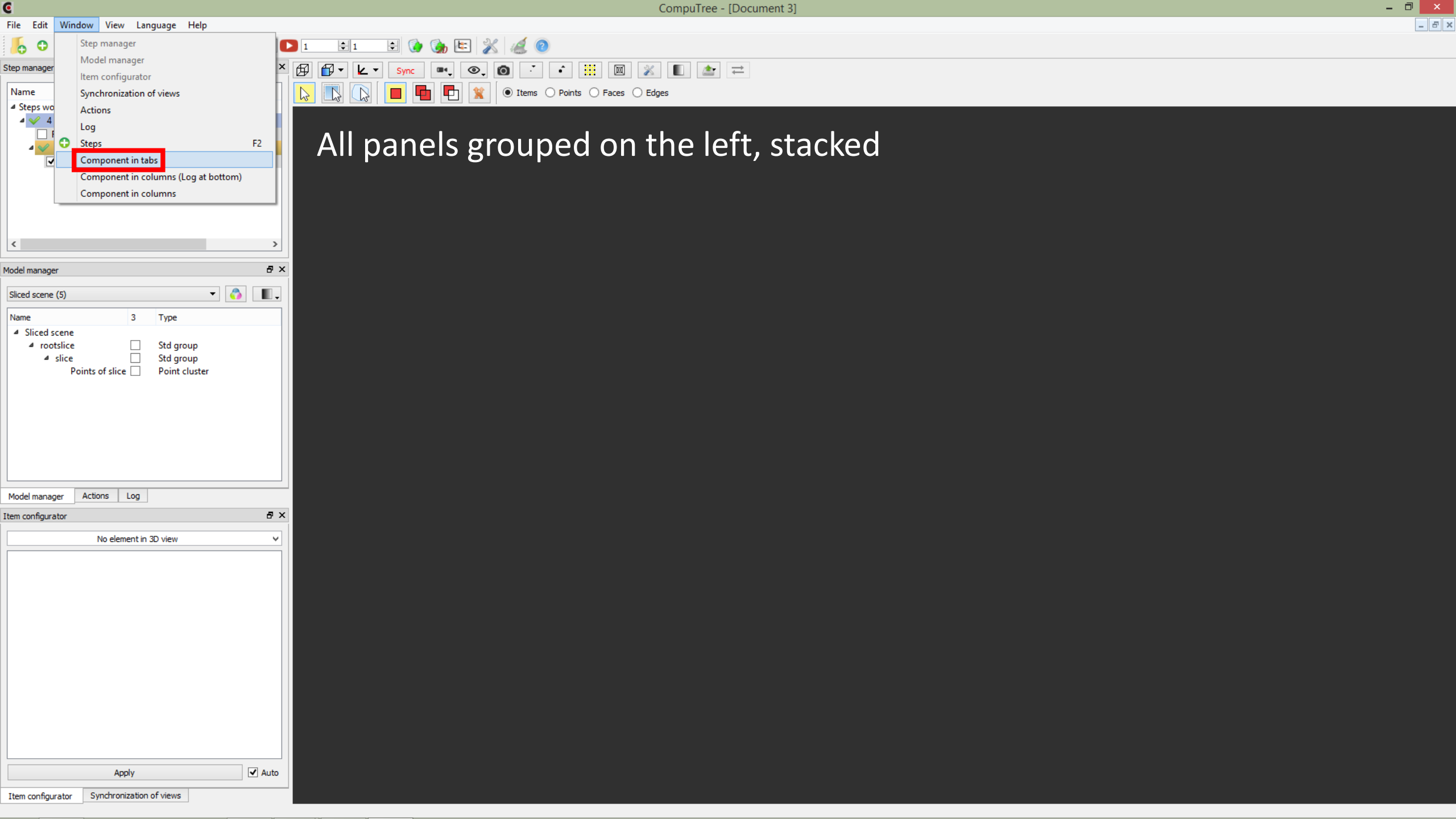


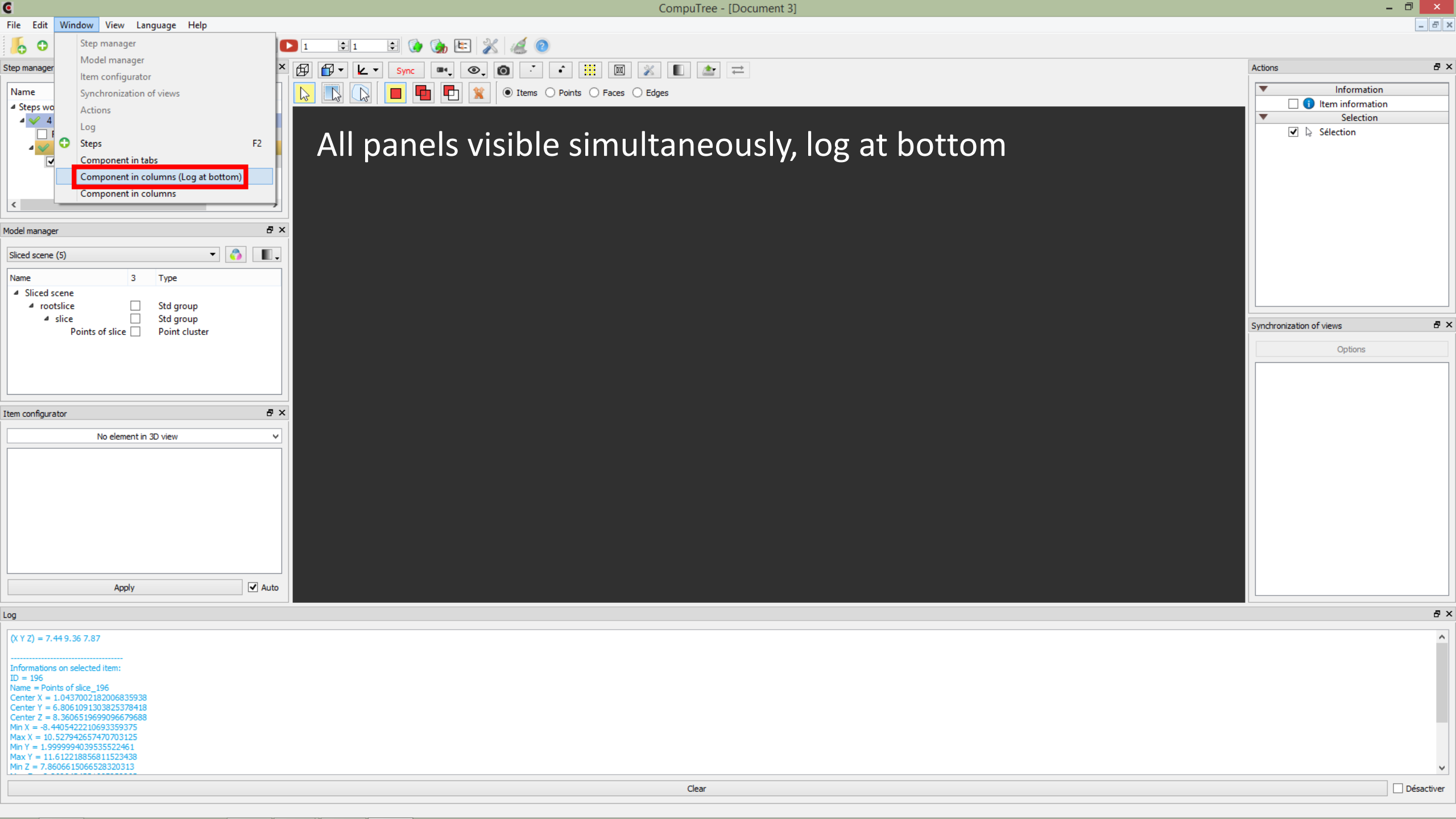
The "File" and "Edit" menus contain the same buttons that main toolbar

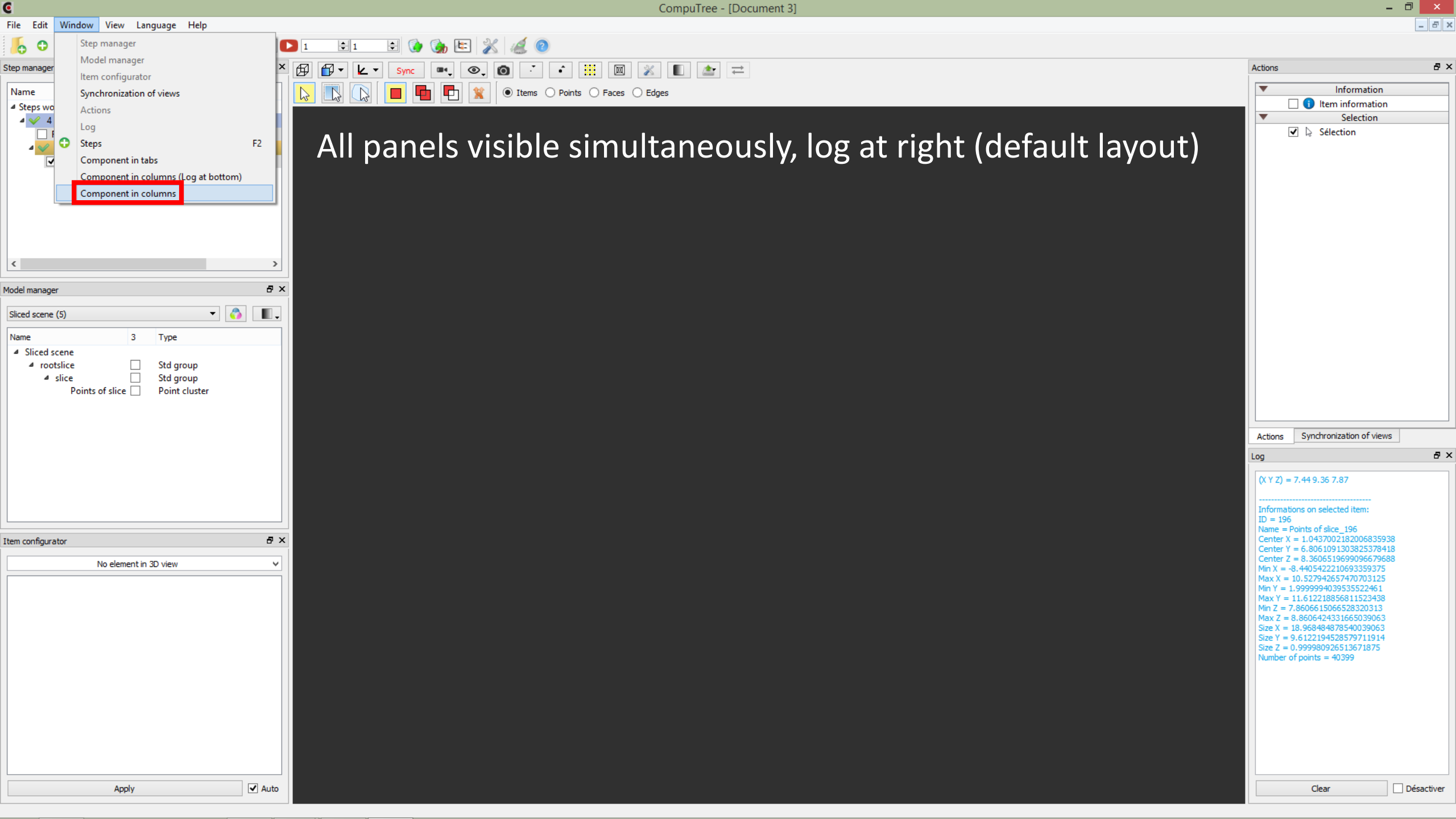
The "Views" menu has been previously described

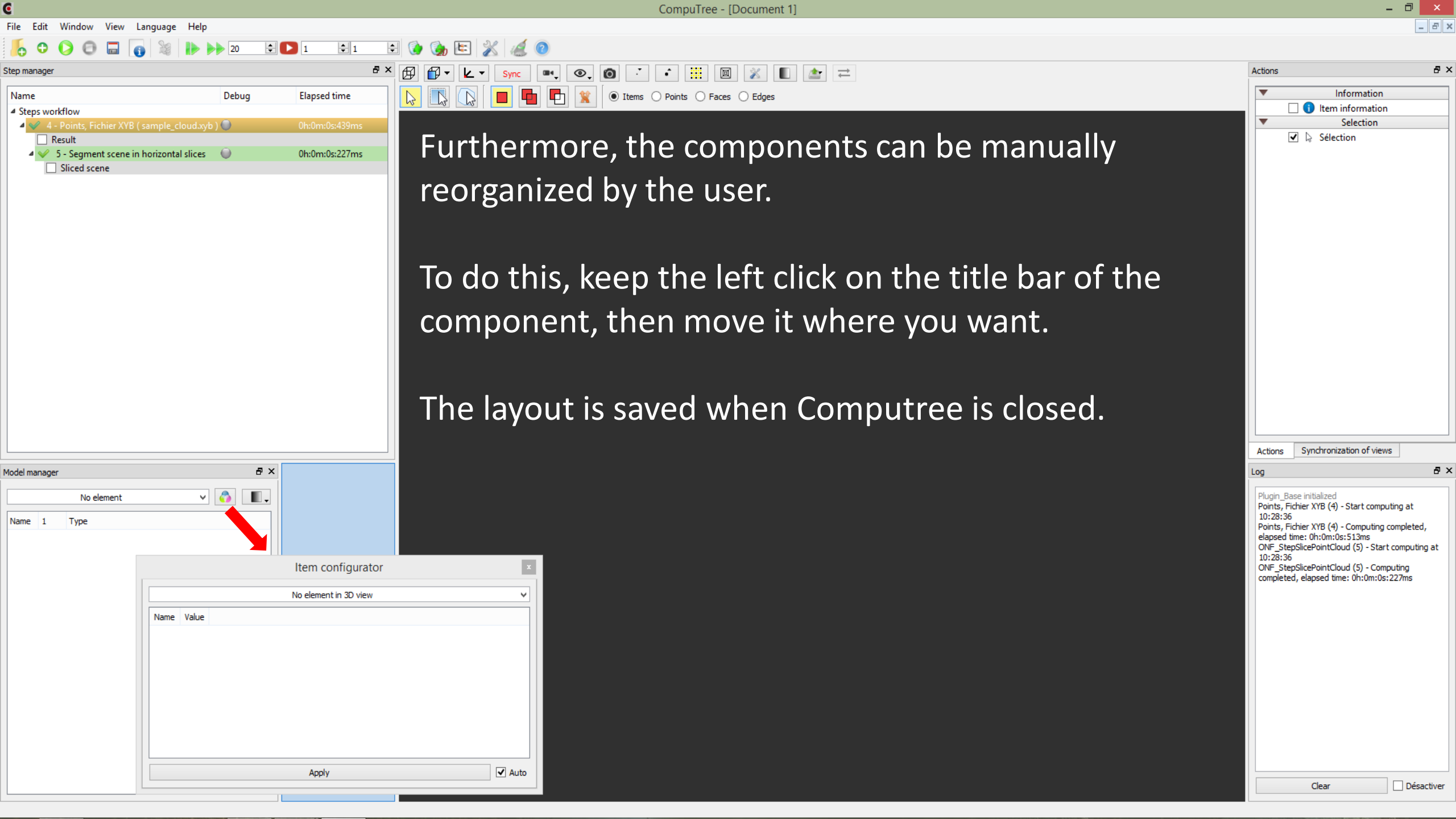
The "Language" menu allows the selection of the interface language (a restart is necessary for the change to take effect)

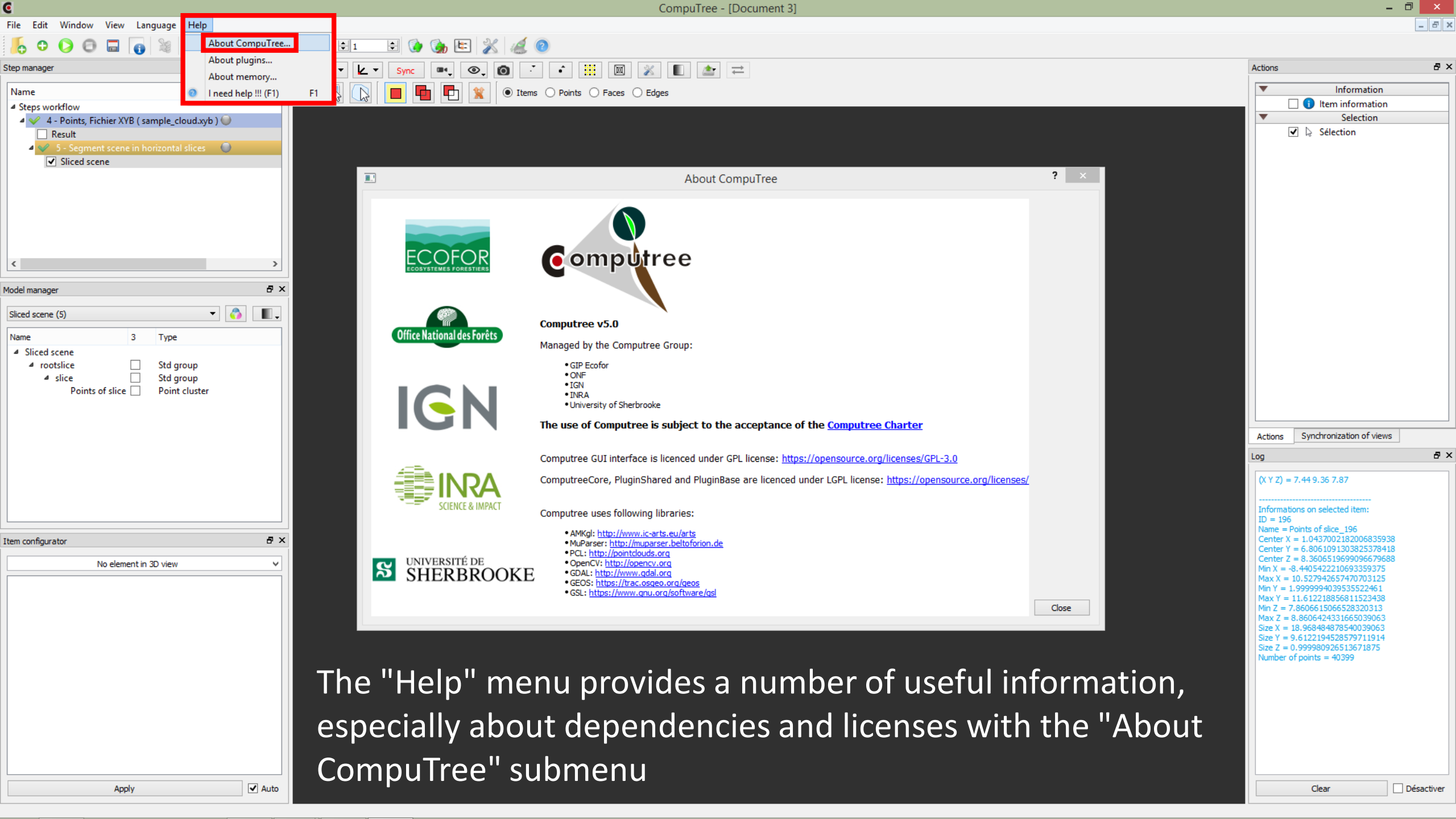

CompuTree - [Document 3]
File
Edit
Window
View
Language
Help
Step manager
Model manager
Item configurator
Synchronization of views
Actions
Log
Steps F2
Component in tabs
Component in columns (Log at bottom)
Component in columns
Sync
Items
Points
Faces
Edges
The "Window" menu allows you to display panels that would have been closed previously
In addition, it offers several standard layouts of the panels
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
(X Y Z) = 7.44 9.36 7.87
Informations on selected item:
ID = 196
Name = Points of slice_196
Center X = 1.0437002182006835938
Center Y = 6.8061091303825378418
Center Z = 8.3606519699096679688
Min X = -8.4405422210693359375
Max X = 10.527942657470703125
Min Y = 1.9999994039535522461
Max Y = 11.612218856811523438
Min Z = 7.8606615066528320313
Max Z = 8.8606424331665039063
Size X = 18.968484878540039063
Size Y = 9.6122194528579711914
Size Z = 0.999980926513671875
Number of points = 40399
Clear
Désactiver
Model manager
Sliced scene (5)
Name
3
Type
Sliced scene
rootslice
Std group
slice
Std group
Points of slice
Point cluster
Item configurator
No element in 3D view
Apply
Auto

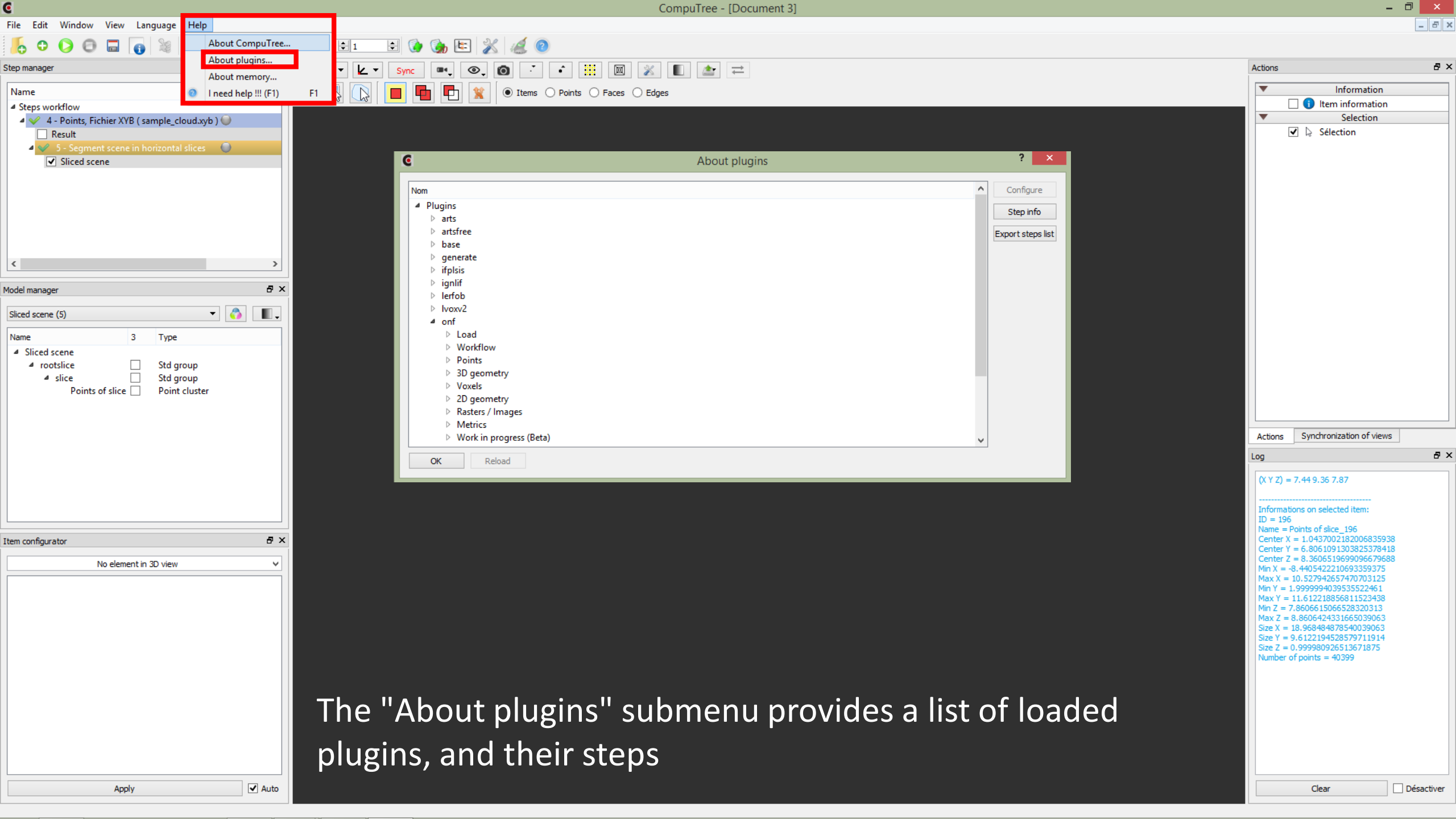

CompuTree - [Document 3]
File
Edit
Window
View
Language
Help
Step manager
Model manager
Item configurator
Synchronization of views
Actions
Log
Steps F2
Component in tabs
Component in columns (Log at bottom)
Component in columns
Sync
Items
Points
Faces
Edges
Name
Steps wo
4
Model manager
Sliced scene (5)
Name
3
Type
Sliced scene
rootslice
Std group
slice
Std group
Points of slice
Point cluster
Model manager
Actions
Log
Item configurator
No element in 3D view
Apply
Auto
Item configurator
Synchronization of views
All panels grouped on the left, stacked

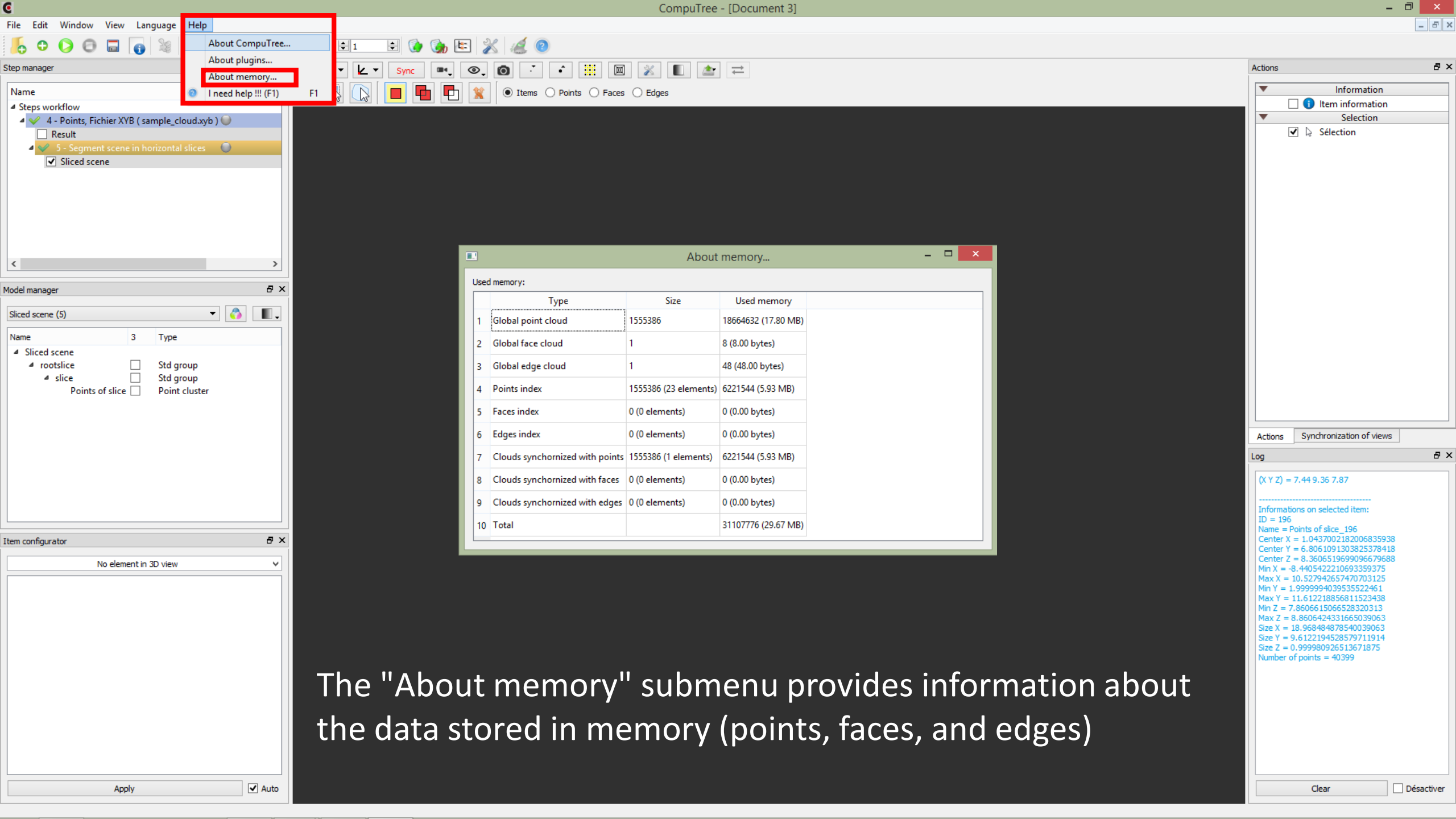

CompuTree - [Document 3]
File
Edit
Window
View
Language
Help
Step manager
Model manager
Item configurator
Synchronization of views
Actions
Log
Steps F2
Component in tabs
Component in columns (Log at bottom)
Component in columns
All panels visible simultaneously, log at bottom
Sync
Items
Points
Faces
Edges
Actions
Information
Item information
Selection
Sélection
Model manager
Sliced scene (5)
Name
3
Type
Sliced scene
rootslice
Std group
slice
Std group
Points of slice
Point cluster
Item configurator
No element in 3D view
Apply
Auto
Synchronization of views
Options
Log
(X Y Z) = 7.44 9.36 7.87
Informations on selected item:
ID = 196
Name = Points of slice_196
Center X = 1.0437002182006835938
Center Y = 6.8061091303825378418
Center Z = 8.3606519699096679688
Min X = -8.4405422210693359375
Max X = 10.527942657470703125
Min Y = 1.9999994039535522461
Max Y = 11.612218856811523438
Min Z = 7.8606615066528320313
Clear
Désactiver

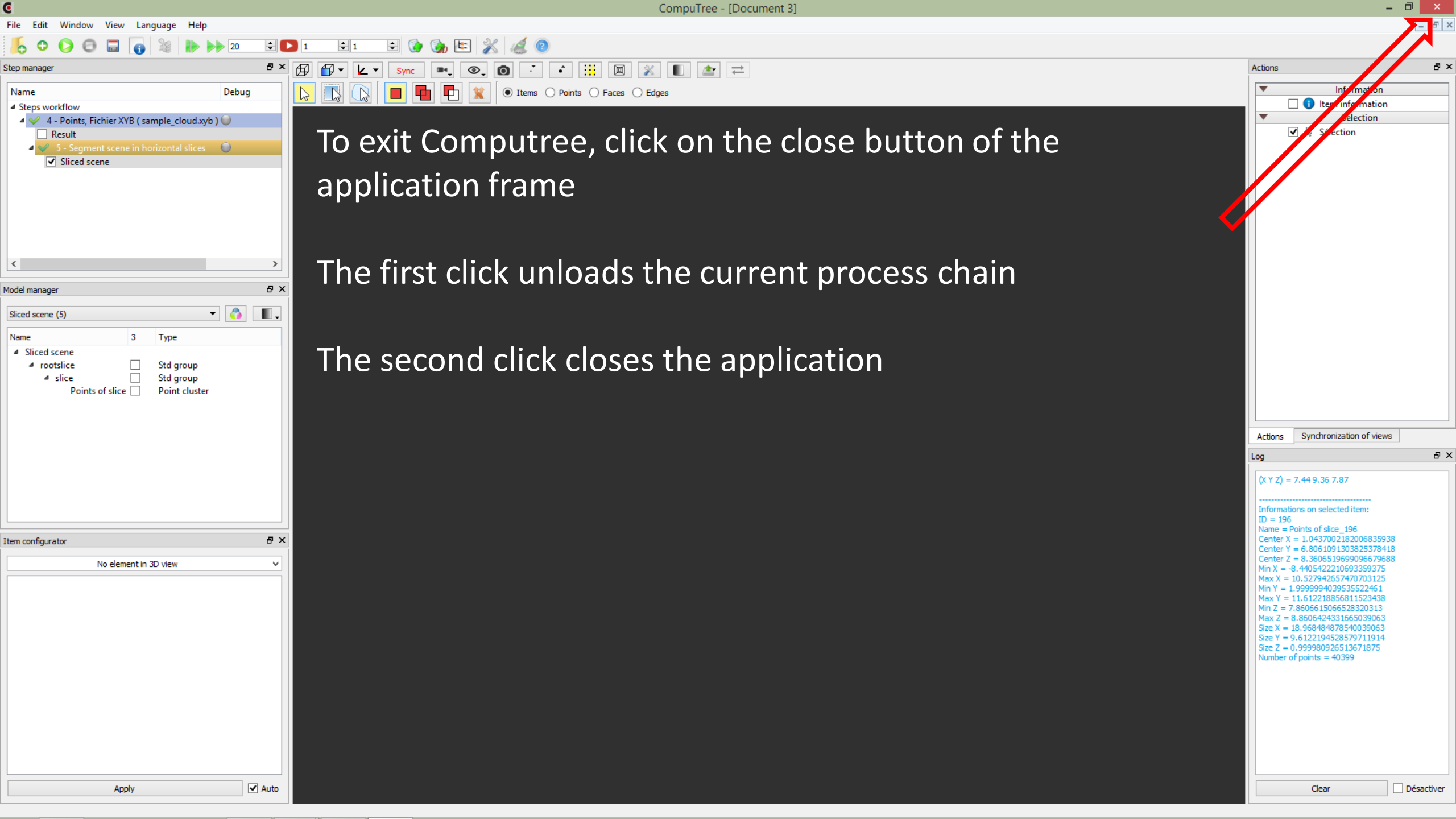

CompuTree - [Document 3]
File
Edit
Window
View
Language
Help
Step manager
Model manager
Item configurator
Synchronization of views
Actions
Log
Steps F2
Component in tabs
Component in columns (Log at bottom)
Component in columns
Sync
Items
Points
Faces
Edges
All panels visible simultaneously, log at right (default layout)
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
(X Y Z) = 7.44 9.36 7.87
Informations on selected item:
ID = 196
Name = Points of slice_196
Center X = 1.043700218200683593 8
Center Y = 6.806109130382537841 8
Center Z = 8.360651969909667968 8
Min X = -8.440542221069335937 5
Max X = 10.527942657470703125
Min Y = 1.9999994039535522461
Max Y = 11.612218856811523438
Min Z = 7.860661506652832031 3
Max Z = 8.860642433166503906 3
Size X = 18.968484878540039063
Size Y = 9.612219452857971191 4
Size Z = 0.999980926513671875
Number of points = 40399
Clear
Désactiver
Model manager
Sliced scene (5)
Name
3
Type
Sliced scene
rootslice
Std group
slice
Std group
Points of slice
Point cluster
Item configurator
No element in 3D view
Apply
Auto


CompuTree - [Document 1]
File Edit Window View Language Help
Step manager
Name Debug Elapsed time
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb) 0h:0m:0s:439ms
Result
5 - Segment scene in horizontal slices 0h:0m:0s:227ms
Sliced scene
Sync
Items Points Faces Edges
Furthermore, the components can be manually reorganized by the user.
To do this, keep the left click on the title bar of the component, then move it where you want.
The layout is saved when Computree is closed.
Actions
Information
Item information
Selection
Sélection
Actions Synchronization of views
Log
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at 10:28:36
Points, Fichier XYB (4) - Computing completed, elapsed time: 0h:0m:0s:513ms
ONF_StepSlicePointCloud (5) - Start computing at 10:28:36
ONF_StepSlicePointCloud (5) - Computing completed, elapsed time: 0h:0m:0s:227ms
Clear Désactiver
Model manager
No element
Name 1 Type
Item configurator
No element in 3D view
Name Value
Apply Auto


CompuTree - [Document 3]
File
Edit
Window
View
Language
Help
About CompuTree...
About plugins...
About memory...
I need help !!! (F1)
F1
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
3
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
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
(X Y Z) = 7.44 9.36 7.87
Informations on selected item:
ID = 196
Name = Points of slice_196
Center X = 1.043700218200683593 8
Center Y = 6.806109130382537841 8
Center Z = 8.360651969909667968 8
Min X = -8.440542221069335937 5
Max X = 10.527942657470703125
Min Y = 1.9999994039535522461
Max Y = 11.612218856811523438
Min Z = 7.860661506652832031 3
Max Z = 8.860642433166503906 3
Size X = 18.968484878540039063
Size Y = 9.612219452857971191 4
Size Z = 0.999980926513671875
Number of points = 40399
Clear
Désactiver
About CompuTree
ECOFOR
ECOSYSTEMES FORESTIERS
Computree
Office National des Forêts
IGN
INRA
SCIENCE & IMPACT
UNIVERSITÉ DE SHERBROOKE
Computree v5.0
Managed by the Computree Group:
GIP Ecofor
ONF
IGN
INRA
University of Sherbrooke
The use of Computree is subject to the acceptance of the Computree Charter
Computree GUI interface is licenced under GPL license: https://opensource.org/licenses/GPL-3.0
ComputreeCore, PluginShared and PluginBase are licenced under LGPL license: https://opensource.org/licenses/
Computree uses following libraries:
AMKgl: http://www.ic-arts.eu/arts
MuParser: http://muparser.beltoforion.de
PCL: http://pointclouds.org
OpenCV: http://opencv.org
GDAL: http://www.gdal.org
GEOS: https://trac.osgeo.org/geos
GSL: https://www.gnu.org/software/gsl
Close
The "Help" menu provides a number of useful information, especially about dependencies and licenses with the "About CompuTree" submenu


CompuTree - [Document 3]
File
Edit
Window
View
Language
Help
About CompuTree...
About plugins...
About memory...
I need help !!! (F1)
F1
Step manager
Name
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Sync
Items
Points
Faces
Edges
About plugins
Nom
Plugins
arts
artsfree
base
generate
ifplsis
ignlif
lerfob
lvoxv2
onf
Load
Workflow
Points
3D geometry
Voxels
2D geometry
Rasters / Images
Metrics
Work in progress (Beta)
Configure
Step info
Export steps list
OK
Reload
Model manager
Sliced scene (5)
Name
3
Type
Sliced scene
rootslice
Std group
slice
Std group
Points of slice
Point cluster
Item configurator
No element in 3D view
Apply
Auto
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
(X Y Z) = 7.44 9.36 7.87
Informations on selected item:
ID = 196
Name = Points of slice_196
Center X = 1.043700218200683593 8
Center Y = 6.806109130382537841 8
Center Z = 8.360651969909667968 8
Min X = -8.440542221069335937 5
Max X = 10.527942657470703125
Min Y = 1.9999994039535522461
Max Y = 11.612218856811523438
Min Z = 7.8606615066528320313
Max Z = 8.8606424331665039063
Size X = 18.968484878540039063
Size Y = 9.6122194528579711914
Size Z = 0.999980926513671875
Number of points = 40399
Clear
Désactiver
The "About plugins" submenu provides a list of loaded plugins, and their steps


CompuTree - [Document 3]
File
Edit
Window
View
Language
Help
About CompuTree...
About plugins...
About memory...
I need help !!! (F1)
F1
Step manager
Name
Steps workflow
4 - Points, Fichier XYB (sample_cloud.xyb)
Result
5 - Segment scene in horizontal slices
Sliced scene
Sync
Items
Points
Faces
Edges
Model manager
Sliced scene (5)
Name
3
Type
Sliced scene
rootslice
Std group
slice
Std group
Points of slice
Point cluster
Item configurator
No element in 3D view
Apply
Auto
About memory...
Used memory:
Type
Size
Used memory
1 Global point cloud 1555386 18664632 (17.80 MB)
2 Global face cloud 1 8 (8.00 bytes)
3 Global edge cloud 1 48 (48.00 bytes)
4 Points index 1555386 (23 elements) 6221544 (5.93 MB)
5 Faces index 0 (0 elements) 0 (0.00 bytes)
6 Edges index 0 (0 elements) 0 (0.00 bytes)
7 Clouds synchornized with points 1555386 (1 elements) 6221544 (5.93 MB)
8 Clouds synchornized with faces 0 (0 elements) 0 (0.00 bytes)
9 Clouds synchornized with edges 0 (0 elements) 0 (0.00 bytes)
10 Total 31107776 (29.67 MB)
Actions
Information
Item information
Selection
Sélection
Actions
Synchronization of views
Log
(X Y Z) = 7.44 9.36 7.87
Informations on selected item:
ID = 196
Name = Points of slice_196
Center X = 1.0437002182006835938
Center Y = 6.8061091303825378418
Center Z = 8.3606519699096679688
Min X = -8.4405422210693359375
Max X = 10.527942657470703125
Min Y = 1.9999994039535522461
Max Y = 11.612218856811523438
Min Z = 7.8606615066528320313
Max Z = 8.8606424331665039063
Size X = 18.968484878540039063
Size Y = 9.6122194528579711914
Size Z = 0.999980926513671875
Number of points = 40399
Clear
Désactiver
The "About memory" submenu provides information about the data stored in memory (points, faces, and edges)


CompuTree - [Document 3]
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 3 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
To exit Computree, click on the close button of the application frame
The first click unloads the current process chain
The second click closes the application
Actions
Information
Item information
Selection
Selection
Actions
Synchronization of views
Log
(X Y Z) = 7.44 9.36 7.87
Informations on selected item:
ID = 196
Name = Points of slice_196
Center X = 1.043700218200683593 8
Center Y = 6.806109130382537841 8
Center Z = 8.360651969909667968 8
Min X = -8.440542221069335937 5
Max X = 10.527942657470703125
Min Y = 1.9999994039535522461
Max Y = 11.612218856811523438
Min Z = 7.860661506652832031 3
Max Z = 8.860642433166503906 3
Size X = 18.968484878540039063
Size Y = 9.612219452857971191 4
Size Z = 0.999980926513671875
Number of points = 40399
Clear
Désactiver