

Tutorial CT01

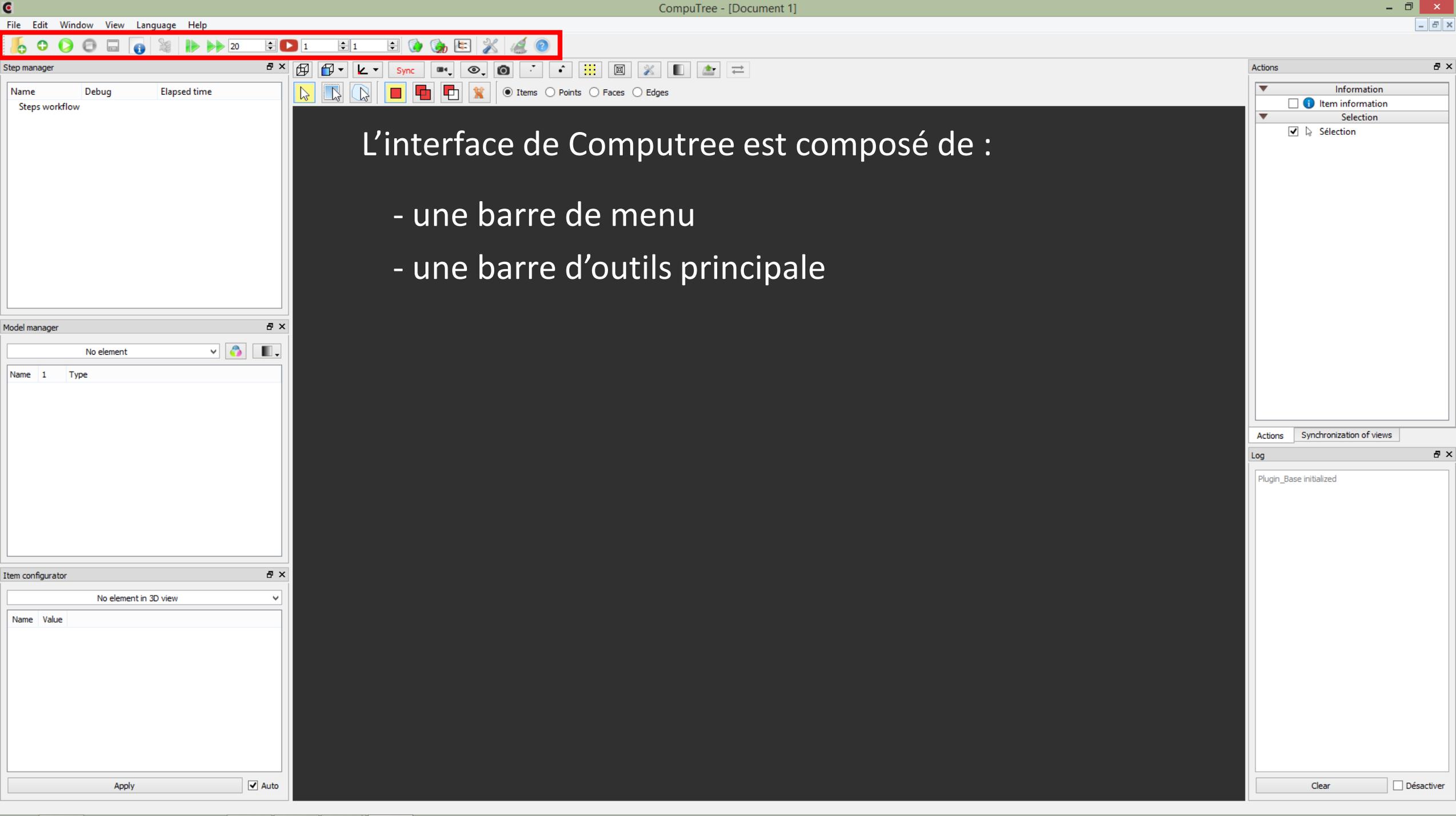
FR

Organisation générale de l'interface,
chargement et affichage d'un nuage

The screenshot displays the CompuTree software interface. At the top, there is a menu bar with 'File', 'Edit', 'Window', 'View', 'Language', and 'Help'. Below the menu bar is a toolbar with various icons for navigation and editing. The central area is a large 3D view, currently showing a dark background with white text. To the left, there are three panels: 'Step manager' (with columns for Name, Debug, Elapsed time), 'Model manager' (with a dropdown menu and a table with columns Name, 1, Type), and 'Item configurator' (with a dropdown menu and a table with columns Name, Value). To the right, there are two panels: 'Actions' (with sections for Information and Selection) and 'Log' (with a text area and a 'Clear' button). The text in the 3D view reads: 'L'interface de Computree est composé de : - une barre de menu'.

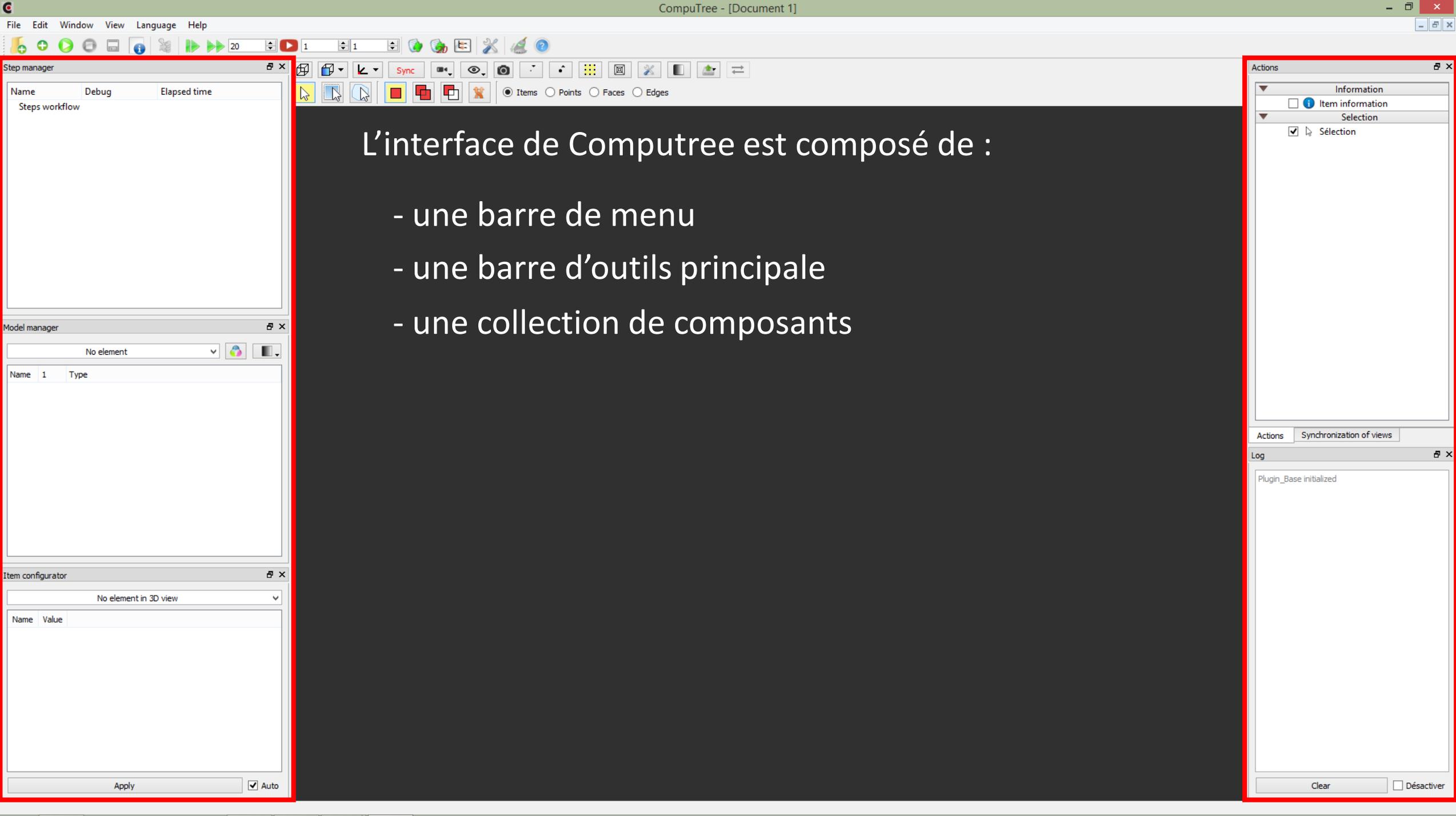
L'interface de Computree est composé de :

- une barre de menu



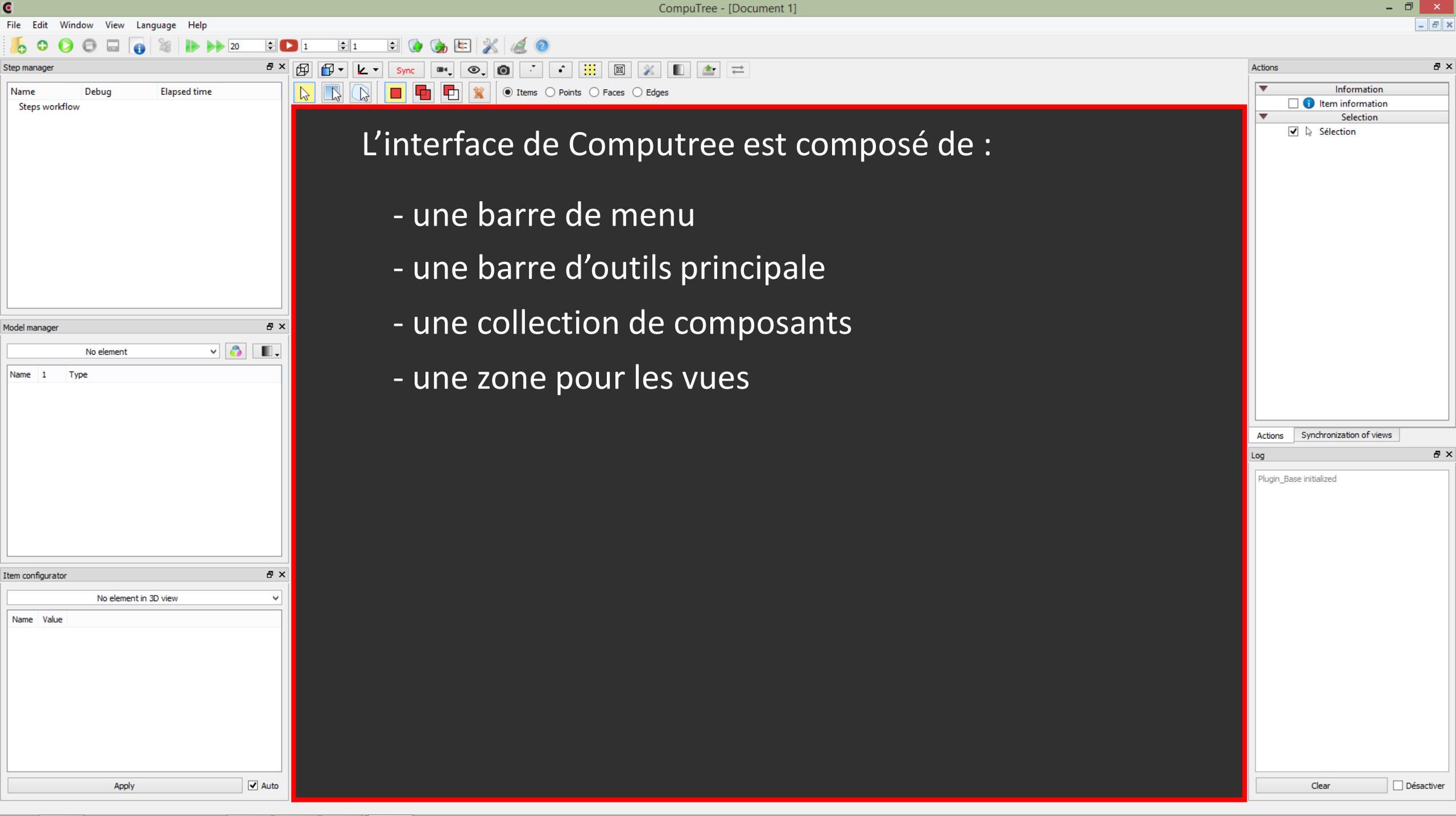
L'interface de CompuTree est composé de :

- une barre de menu
- une barre d'outils principale



L'interface de Computree est composé de :

- une barre de menu
- une barre d'outils principale
- une collection de composants



L'interface de CompuTree est composé de :

- une barre de menu
- une barre d'outils principale
- une collection de composants
- une zone pour les vues



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

Commençons par la barre d'outils principale

Actions

Information

 Item information

Selection

 Sélection

Actions

Synchronization of views

Log

Plugin_Base initialized

Clear

 Désactiver



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

Le premier bouton permet de charger un fichier de n'importe quel format supporté par Computree

Actions

Information	
<input type="checkbox"/>	Item information
Selection	
<input checked="" type="checkbox"/>	Sélection

Actions Synchronization of views

Log

Plugin_Base initialized

Clear Désactiver

Open a file

Ce PC > SYSTEME (C:) > z_DONNEES > tutorial

Rechercher dans : tutorial

Nom	Modifié le	Type	Taille
sample_cloud.xyb	16/06/2017 10:01	Fichier XYB	39 493 Ko

Nom du fichier : sample_cloud.xyb

Ouvrir Annuler

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 *.dem *.gdb *.pgm *.map *.bmp *.gen *.xyb *.pbm *.bil *.rec *.toc *.000 *.ppi *.gml *.obj *.jml *.las *.img *.sql *.gpx *.gxf *.hgt *.mem *.dt0 *.dt1 *.dt2 *.json *.bna *.gif *.kap *.grb *.aux *.svg *.dgn *.nat *.til *.gmt *.dwg)

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 *.dem *.gdb *.pgm *.map *.bmp *.gen *.xyb *.pbm *.bil *.rec *.toc *.000 *.ppi *.gml *.obj *.jml *.las *.img *.sql *.gpx *.gxf *.hgt *.mem *.dt0 *.dt1 *.dt2 *.json *.bna *.gif *.kap *.grb *.aux *.svg *.dgn *.nat *.til *.gmt *.dwg)

Actions

- Information
 - Item information
- Selection
 - Sélection

Item configurator

No element in 3D view

Name	Value

Apply Auto

Clear Désactiver



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

Dans le cas où l'extension correspond à plusieurs formats différents, une fenêtre permet à l'utilisateur de choisir lequel utiliser



Actions

Information
<input type="checkbox"/> Item information
Selection
<input checked="" type="checkbox"/> Sélection

Actions Synchronization of views

Log

Plugin_Base initialized

Clear Désactiver



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

Le second bouton permet d'afficher / masquer le panneau des étapes

Actions

Information	
<input type="checkbox"/>	Item information
Selection	
<input checked="" type="checkbox"/>	Sélection

Actions Synchronization of views

Log

Plugin_Base initialized

Clear Désactiver



Step manager

Name Debug

Steps workflow

(0%) 4 - Points, Fichier XYB (sample_cloud.xyb)

Model manager

No element

Name	1	Type

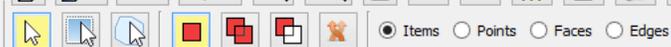
Item configurator

No element in 3D view

Name	Value

Apply Auto

Sync



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

Le panneau des étapes regroupe toutes les étapes proposées par les plugins dans des menus thématiques et permet de les ajouter à la chaîne de traitement

Actions

Information

Item information

Selection

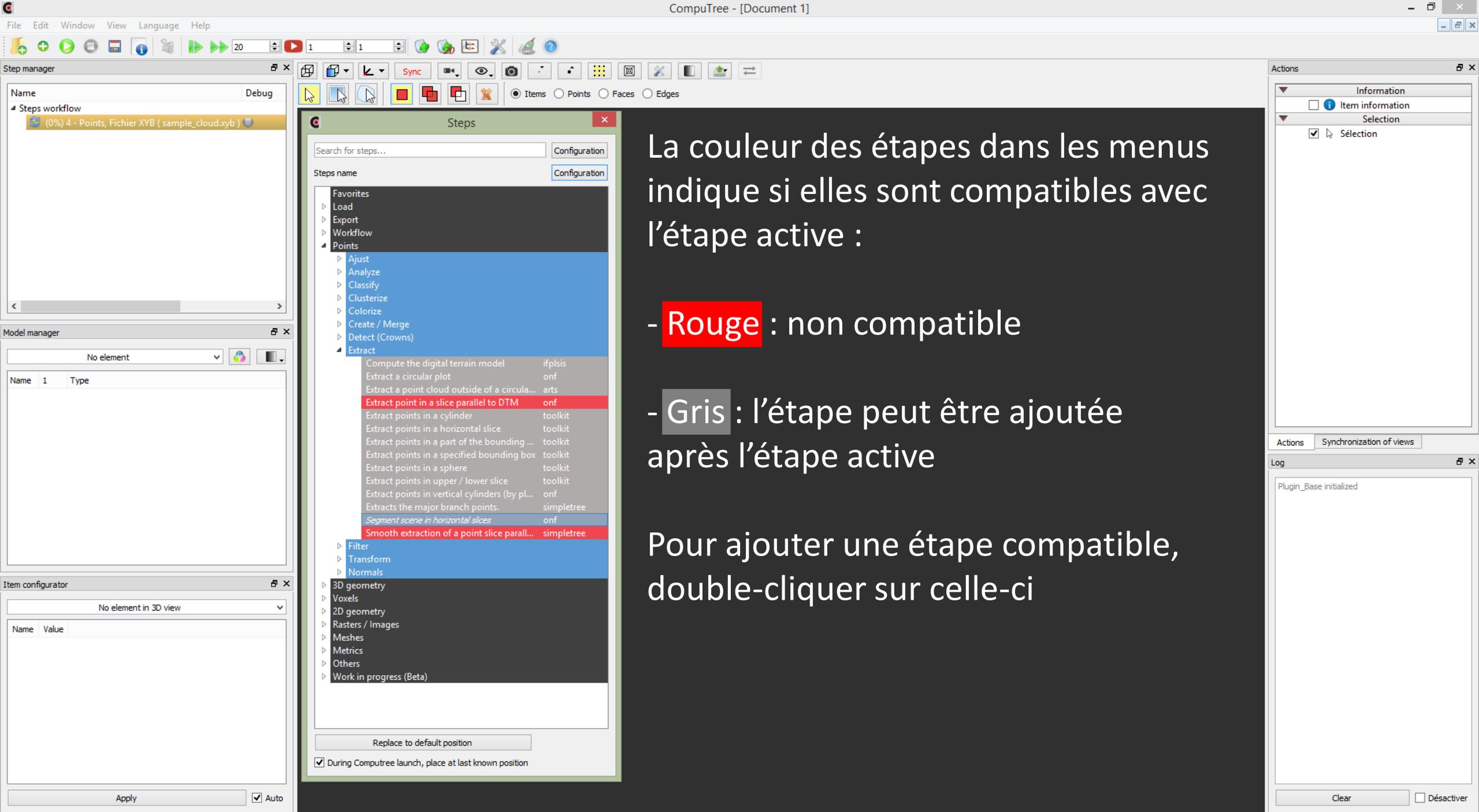
Sélection

Actions Synchronization of views

Log

Plugin_Base initialized

Clear Désactiver



La couleur des étapes dans les menus indique si elles sont compatibles avec l'étape active :

- **Rouge** : non compatible

- **Gris** : l'étape peut être ajoutée après l'étape active

Pour ajouter une étape compatible, double-cliquer sur celle-ci



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

Le 3^{ème} bouton permet d'exécuter la chaine de traitement

Actions

Information	
<input type="checkbox"/>	Item information
Selection	
<input checked="" type="checkbox"/>	Sélection

Actions Synchronization of views

Log

Plugin_Base initialized

Clear Désactiver



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

En cours d'exécution, le 4^{ième} bouton permet d'interrompre le traitement en urgence

Actions

Information

- Item information

Selection

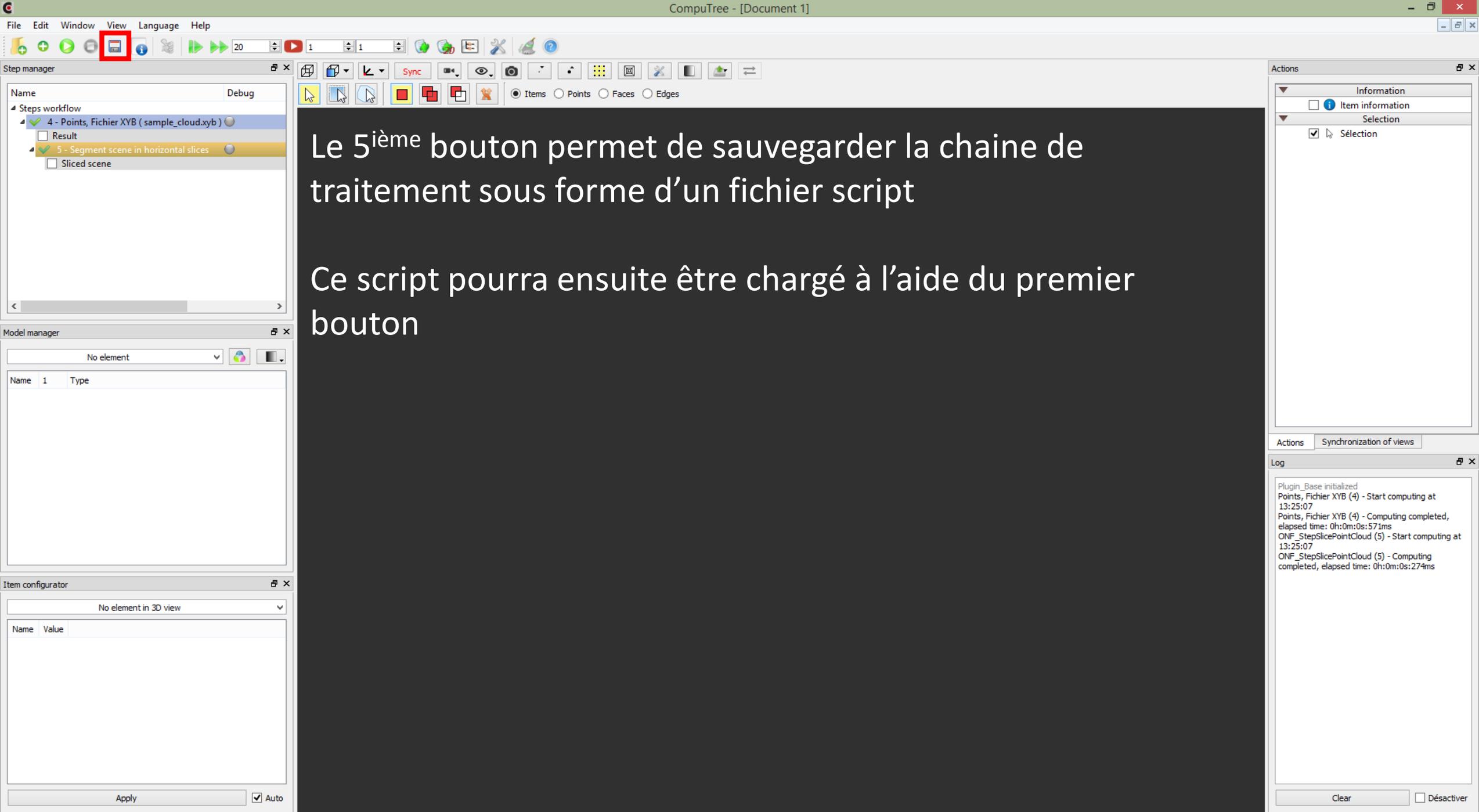
- Sélection

Actions Synchronization of views

Log

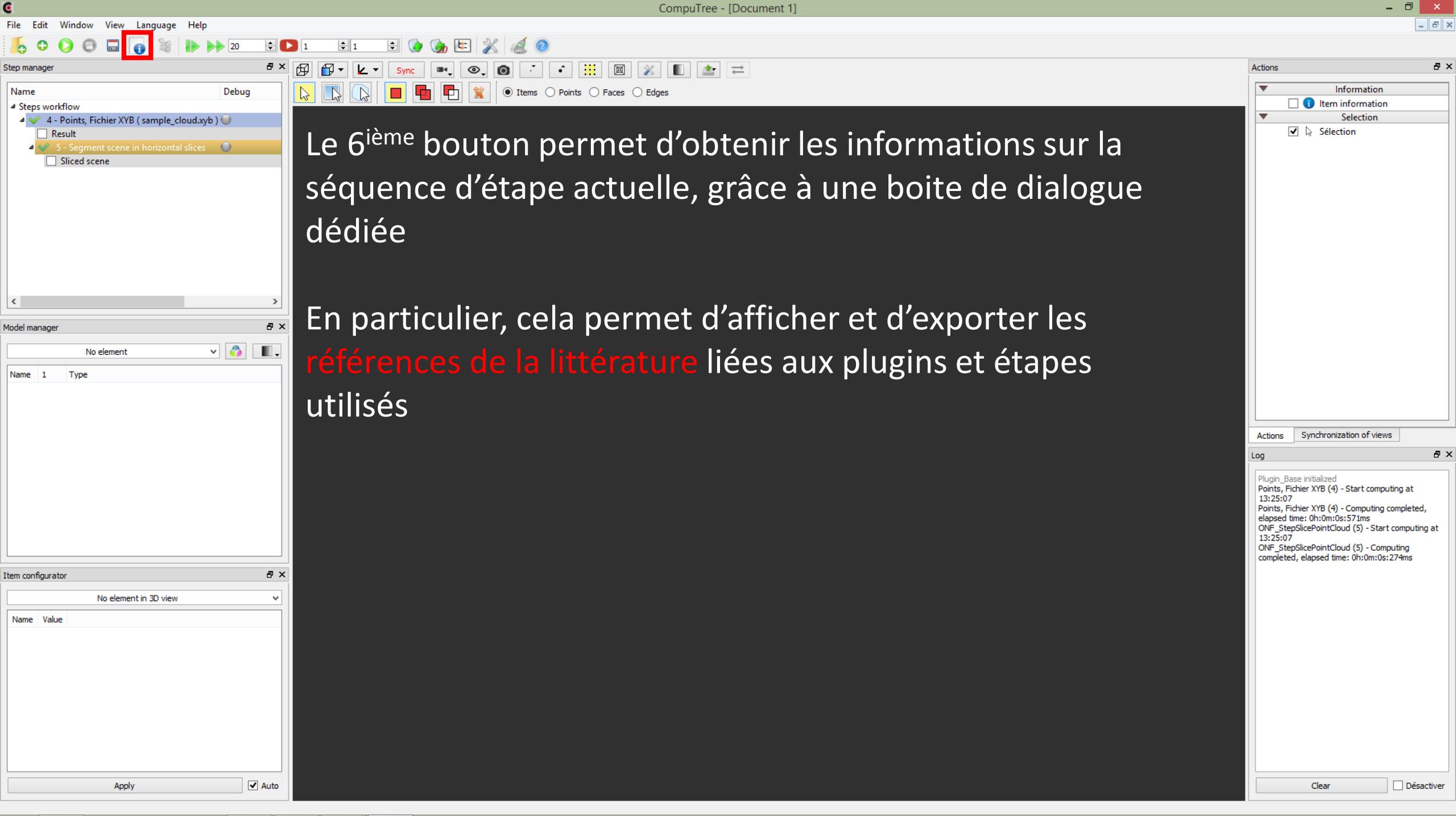
```
Plugin_Base initialized
Points, Fichier XYB (4) - Start computing at
13:25:07
```

Clear Désactiver



Le 5^{ème} bouton permet de sauvegarder la chaine de traitement sous forme d'un fichier script

Ce script pourra ensuite être chargé à l'aide du premier bouton



Le 6^{ème} bouton permet d'obtenir les informations sur la séquence d'étape actuelle, grâce à une boîte de dialogue dédiée

En particulier, cela permet d'afficher et d'exporter les **références de la littérature** liées aux plugins et étapes utilisés

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

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

Actions

Information

- Item information
- Selection

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

Le premier onglet liste les étapes utilisées, avec leur plugin d'origine, leur nom de code, et leur nom dans le menu
Un bouton permet d'exporter cette liste en format texte

The screenshot displays the CompuTree software interface. At the top, a menu bar includes File, Edit, Window, View, Language, and Help. Below it is a toolbar with various icons, including a red box highlighting an information icon. The main workspace is a 3D view, currently empty. On the left, there are three panels: 'Step manager' showing a workflow with steps like '(0%) 37 - Points, Fichier XYB', '(0%) 38 - Classify ground points', '(0%) 39 - Create DTM', '(0%) 40 - 2D clustering (Quick)', '(0%) 41 - 1- Merge clusters vertically into logs', and '(0%) 42 - 2- Filter logs by number of clusters'; 'Model manager' showing 'No element'; and 'Item configurator' showing 'No element in 3D view'. On the right, there are two panels: 'Actions' with 'Information' and 'Selection' sections, and 'Log' showing a sequence of operations and their completion times. A central dialog box titled 'Script citation informations' is open, showing three tabs: 'Script summary', 'Plugin and Step citations', and 'Citations in RIS format'. The 'Plugin and Step citations' tab is active, displaying a list of citations for the 'Computree Core Team', 'Plugin base', 'Plugin ONF', 'Plugin arts', and 'ONF_StepDetectSection07 - in plugin ONF'. At the bottom of the dialog, there are buttons for 'Export Script summary', 'Export RIS file', and 'Close'. A large white text overlay at the bottom of the image reads: 'Le second onglet liste les citations des plugins et étapes utilisées dans un format simplifié'.

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

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 Low Yan. 2011. *Towards automated and operational forest inventories with T-Lidar.*

Export Script summary Export RIS file Close

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

Le second onglet liste les citations des plugins et étapes utilisées dans un format simplifié

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

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

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

Le troisième onglet donne les citations complètes au format standard RIS
Un bouton permet d'exporter les citations en format RIS

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

En laissant la souris sur un bouton, on obtient sa description ainsi que son raccourci clavier

Actions

Information

Item information

Selection

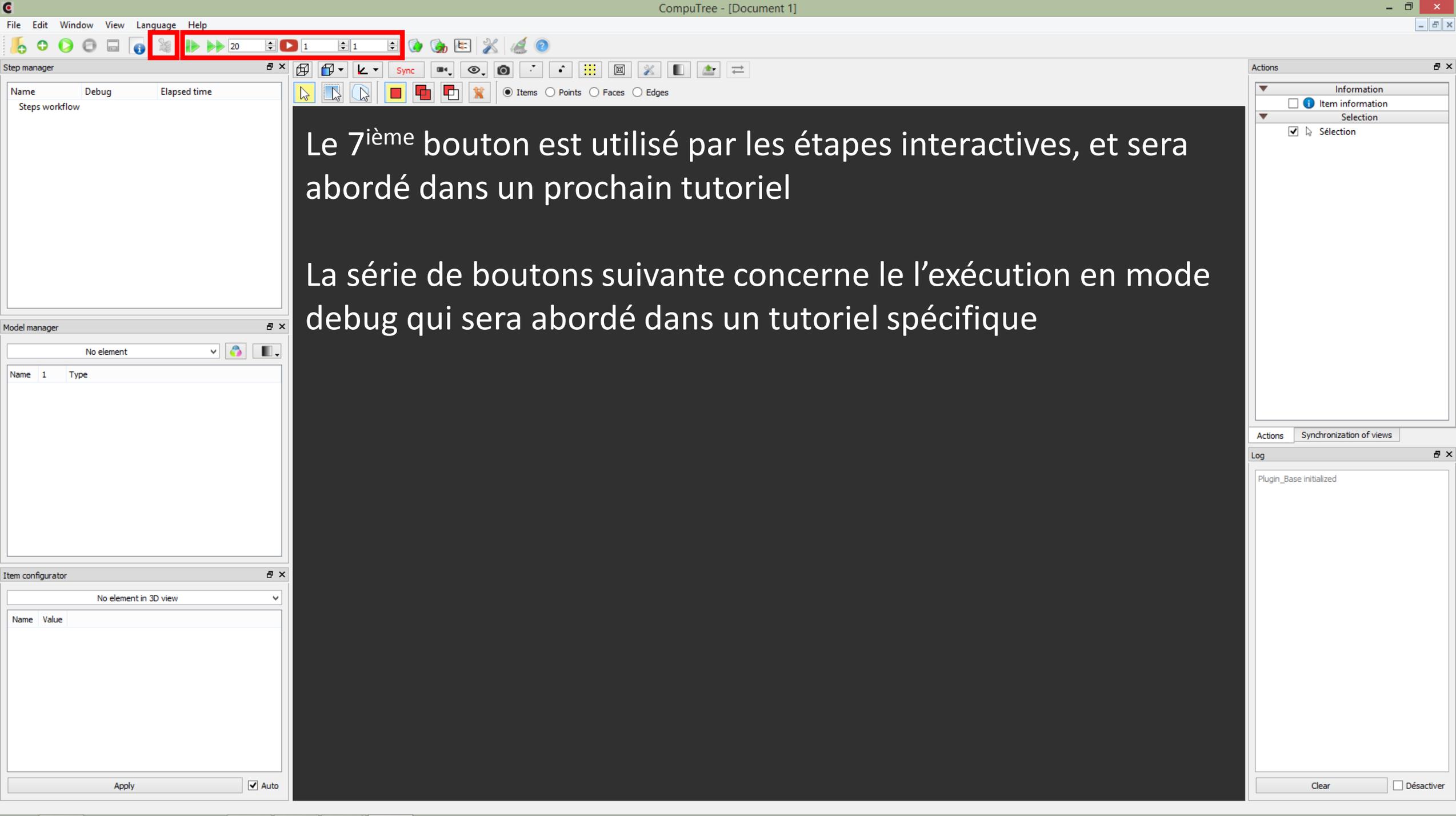
Sélection

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



Le 7^{ème} bouton est utilisé par les étapes interactives, et sera abordé dans un prochain tutoriel

La série de boutons suivante concerne le l'exécution en mode debug qui sera abordé dans un tutoriel spécifique



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

Les 3 boutons suivants permettent de créer :

- une nouvelle vue 3D
- une nouvelle vue 2D (vue de haut)
- une nouvelle vue tabulaire (donnée attributaires)

Actions

Information

Item information

Selection

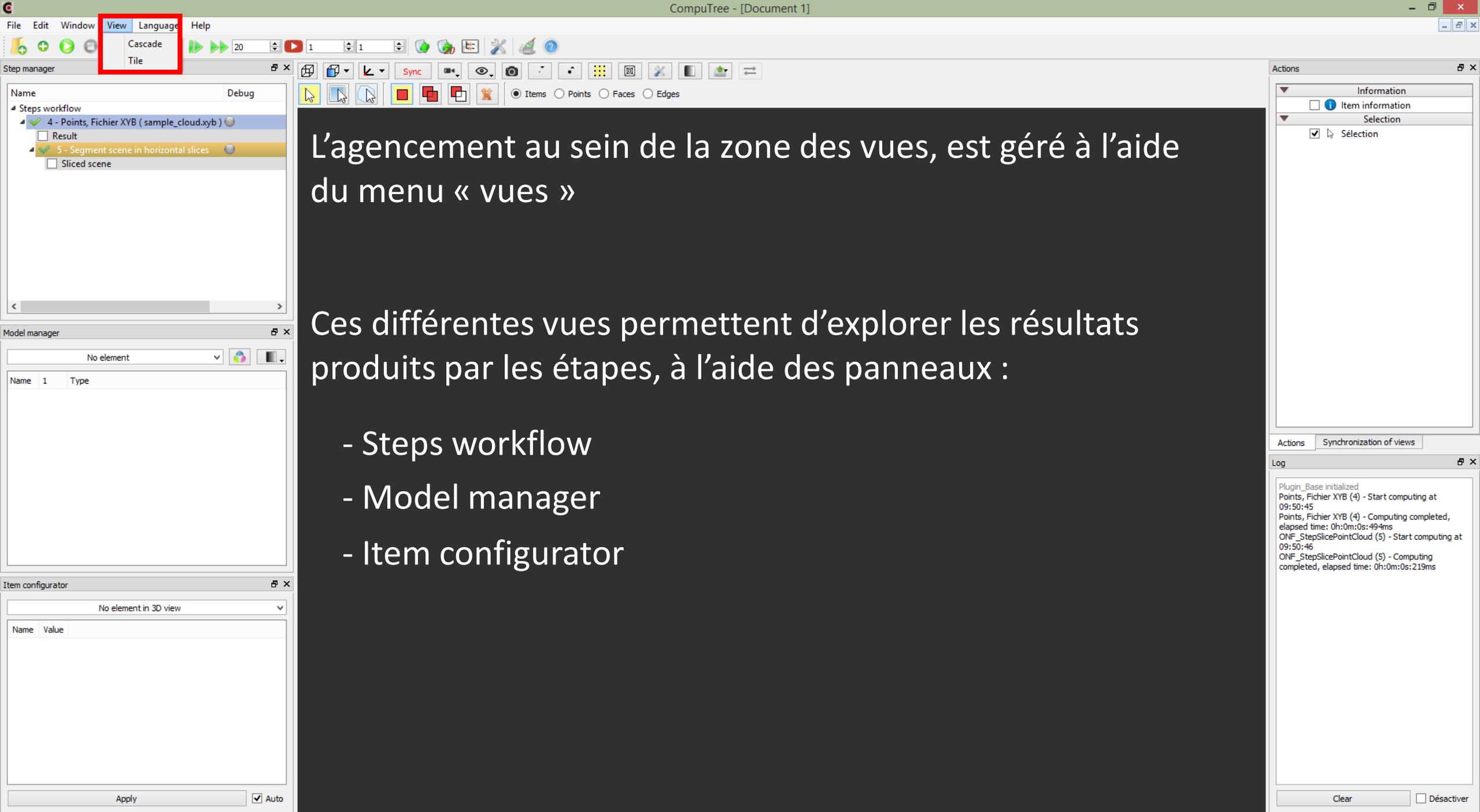
Sélection

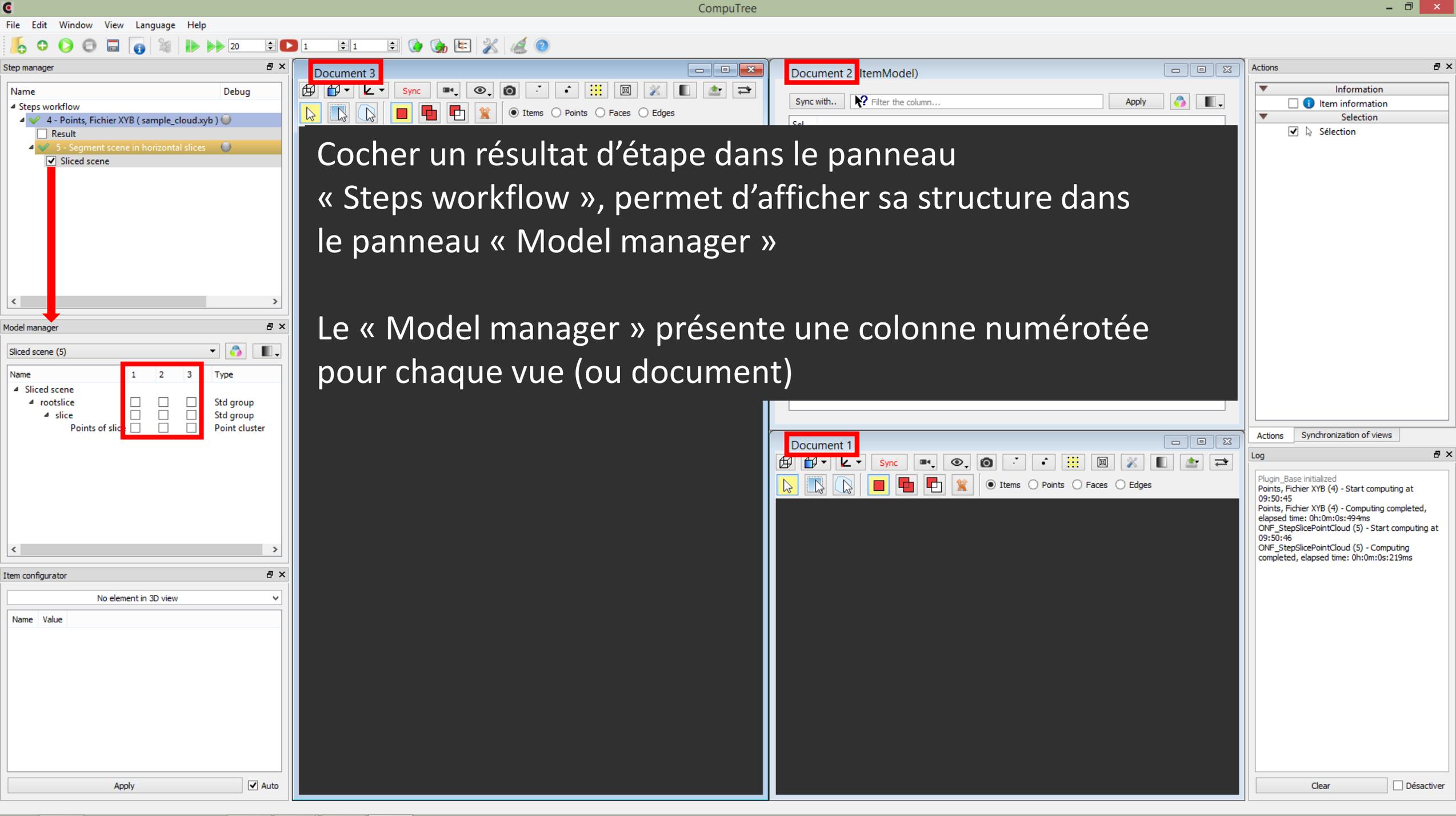
Actions Synchronization of views

Log

Plugin_Base initialized

Clear Désactiver



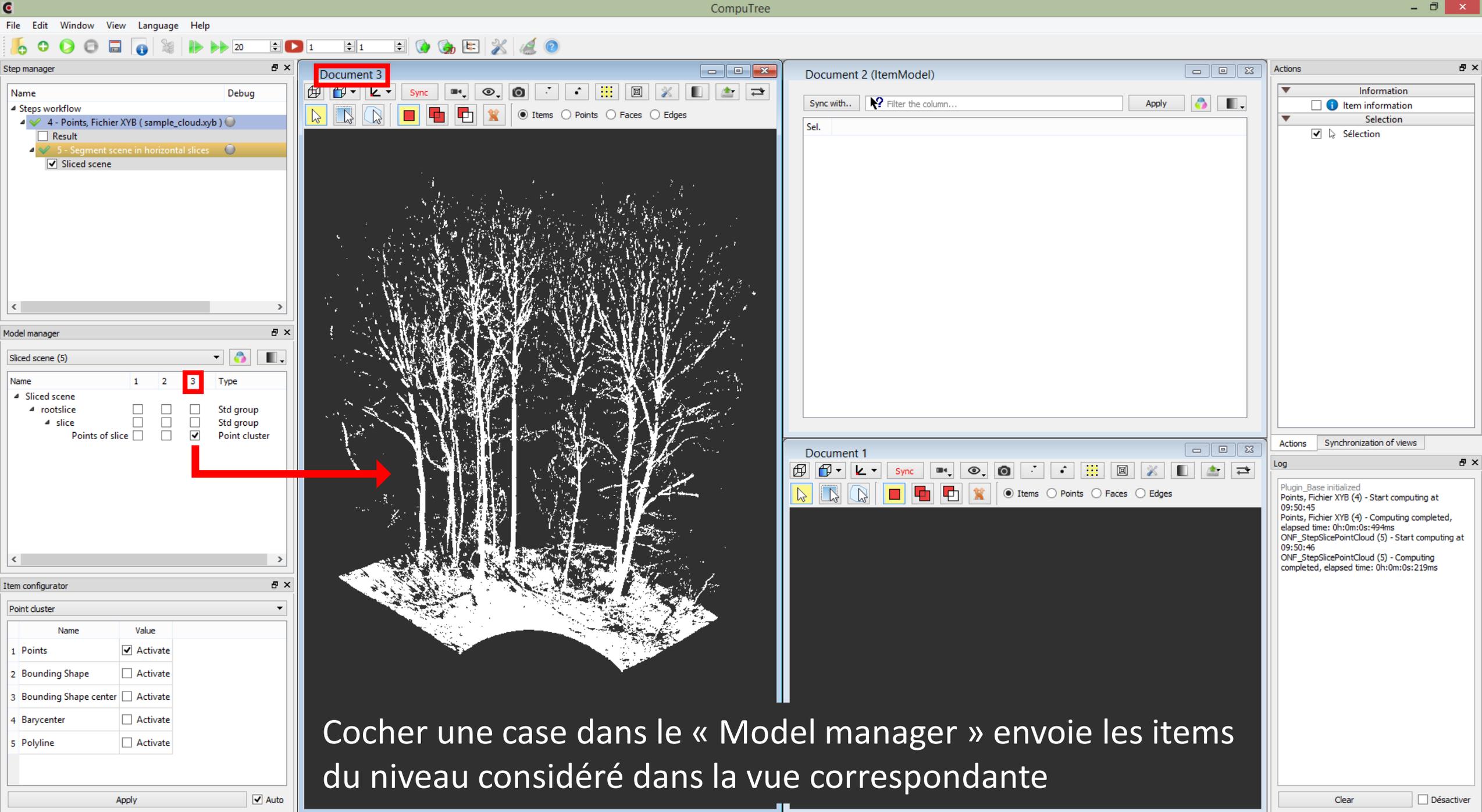


Cocher un résultat d'étape dans le panneau « Steps workflow », permet d'afficher sa structure dans le panneau « Model manager »

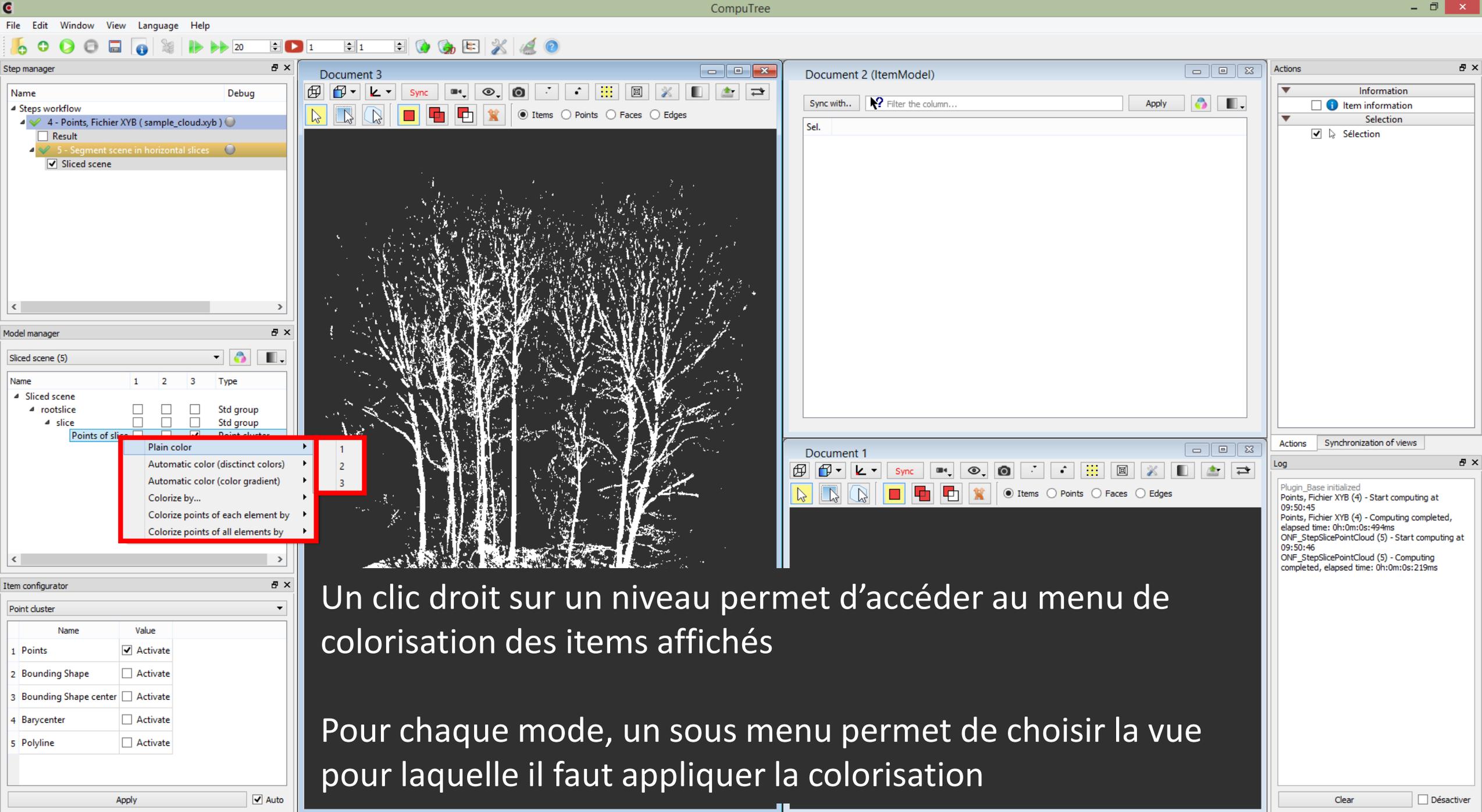
Le « Model manager » présente une colonne numérotée pour chaque vue (ou document)

Name	1	2	3	Type
▲ Sliced scene				
▲ rootslice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
▲ slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Point cluster

```
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
```



Cocher une case dans le « Model manager » envoie les items du niveau considéré dans la vue correspondante



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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Point cloud

Plain color

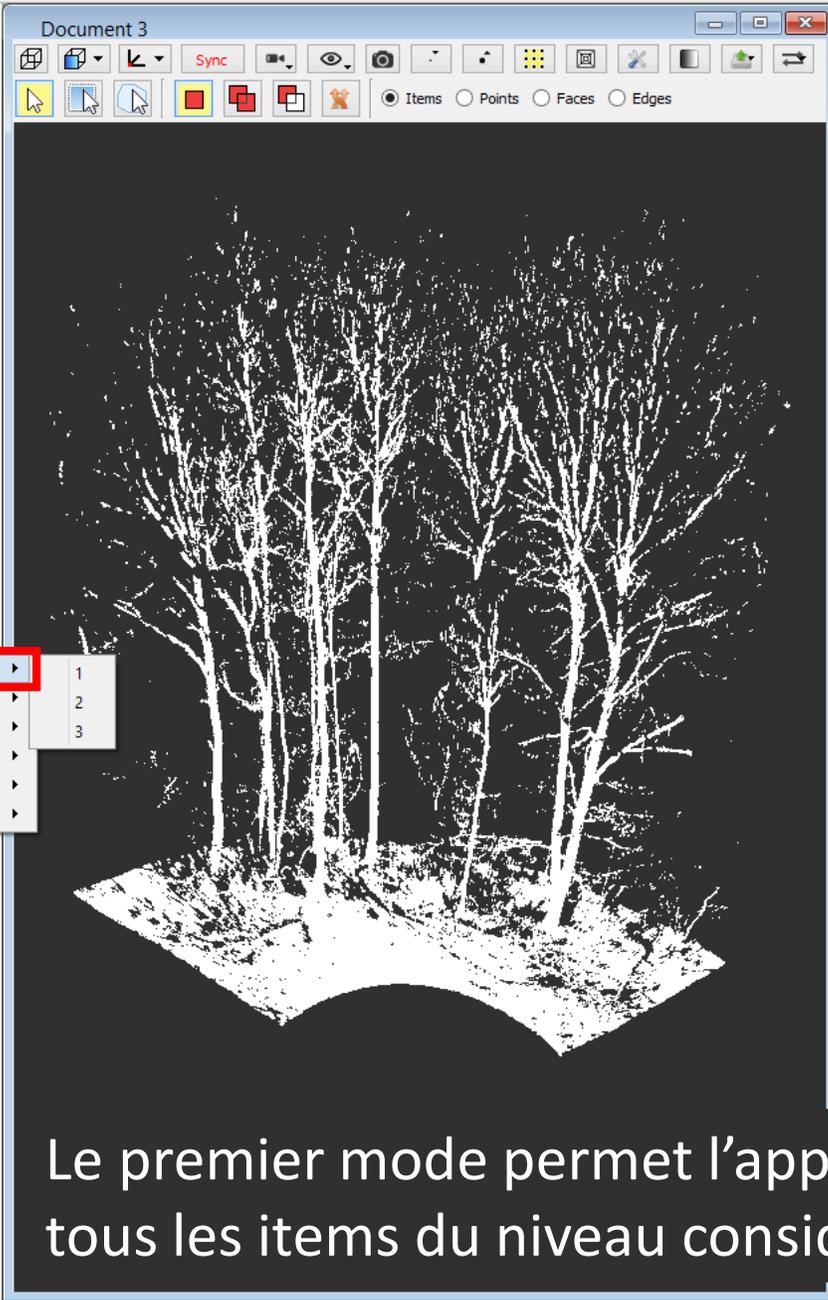
- Automatic color (distinct colors)
- Automatic color (color gradient)
- Colorize by...
- Colorize points of each element by
- Colorize points of all elements by

Item configurator

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

Apply Auto



Document 2 (ItemModel)

Sync with.. Filter the column... Apply

Sel.

Document 1

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

Le premier mode permet l'application d'une couleur unie à tous les items du niveau considéré



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)

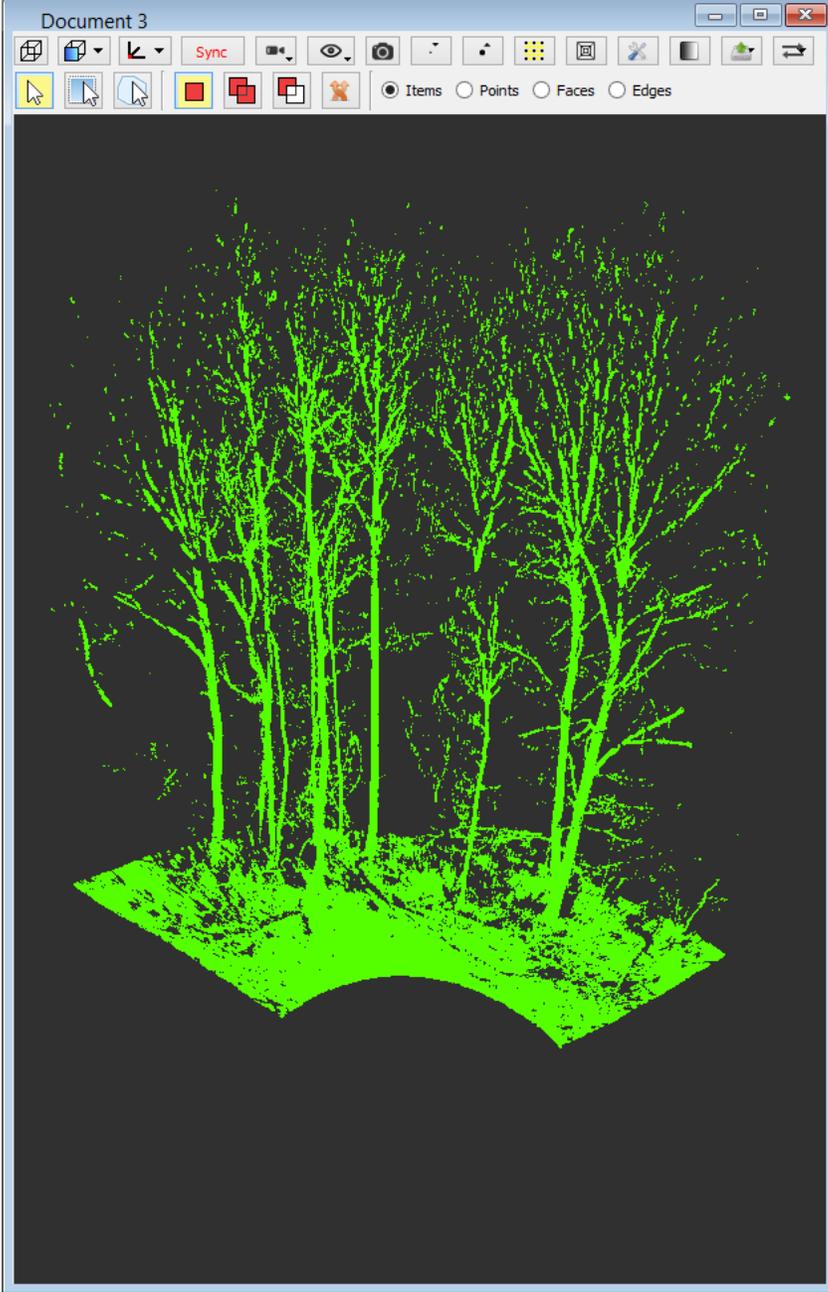
Name	1	2	3	Type
Sliced scene				
rootslice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Point cluster

Item configurator

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

Apply Auto



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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Point cluster

Plain color

Automatic color (distinct colors)

Automatic color (color gradient)

Colorize by...

Colorize points of each element by

Colorize points of all elements by

1

2

3

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
```

Apply Auto

Clear Désactiver

Le second mode permet une colorisation différenciée de chaque item du niveau considéré, en utilisant une liste de couleurs uniques



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)

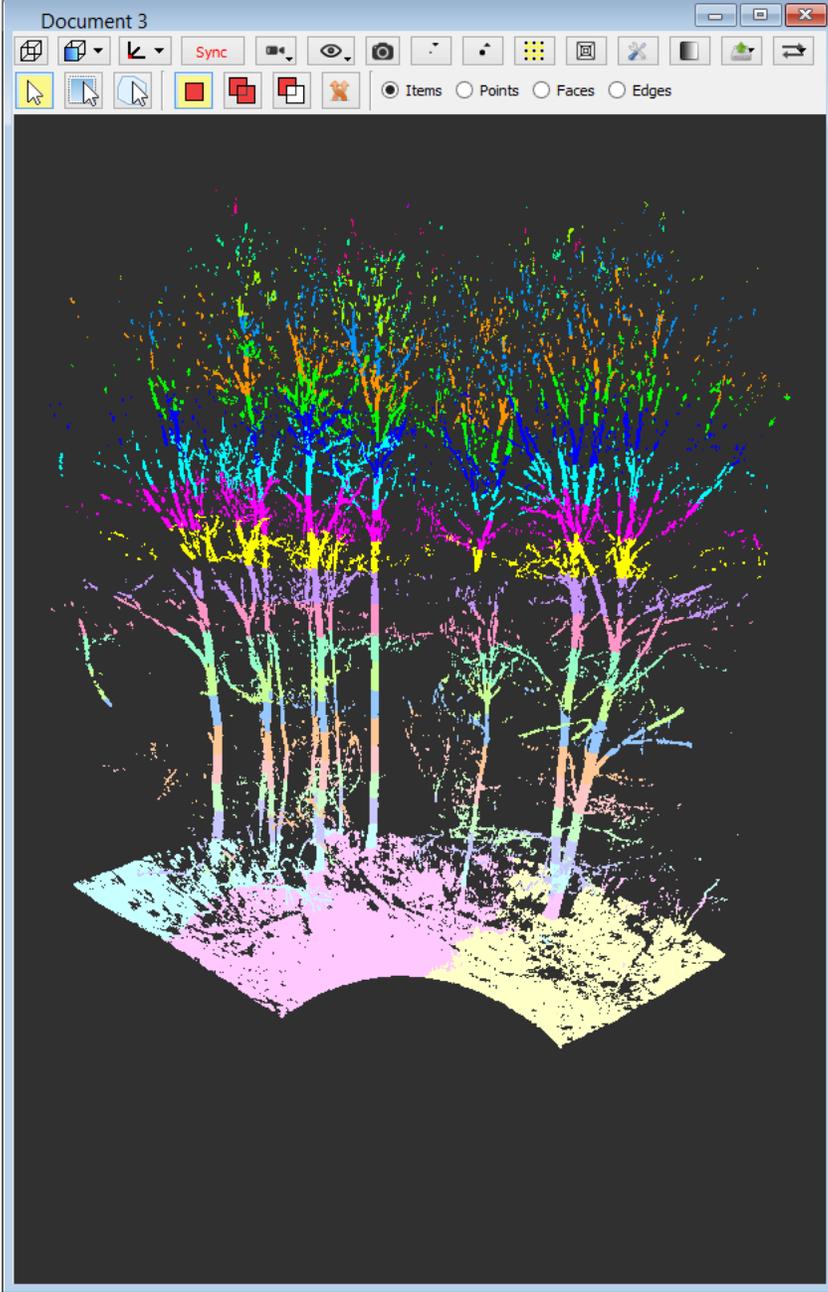
Name	1	2	3	Type
Sliced scene				
rootslice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Point cluster

Item configurator

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

Apply Auto



Document 2 (ItemModel)

Sync with.. Filter the column... Apply

Sel.

Document 1

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

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Point cluster

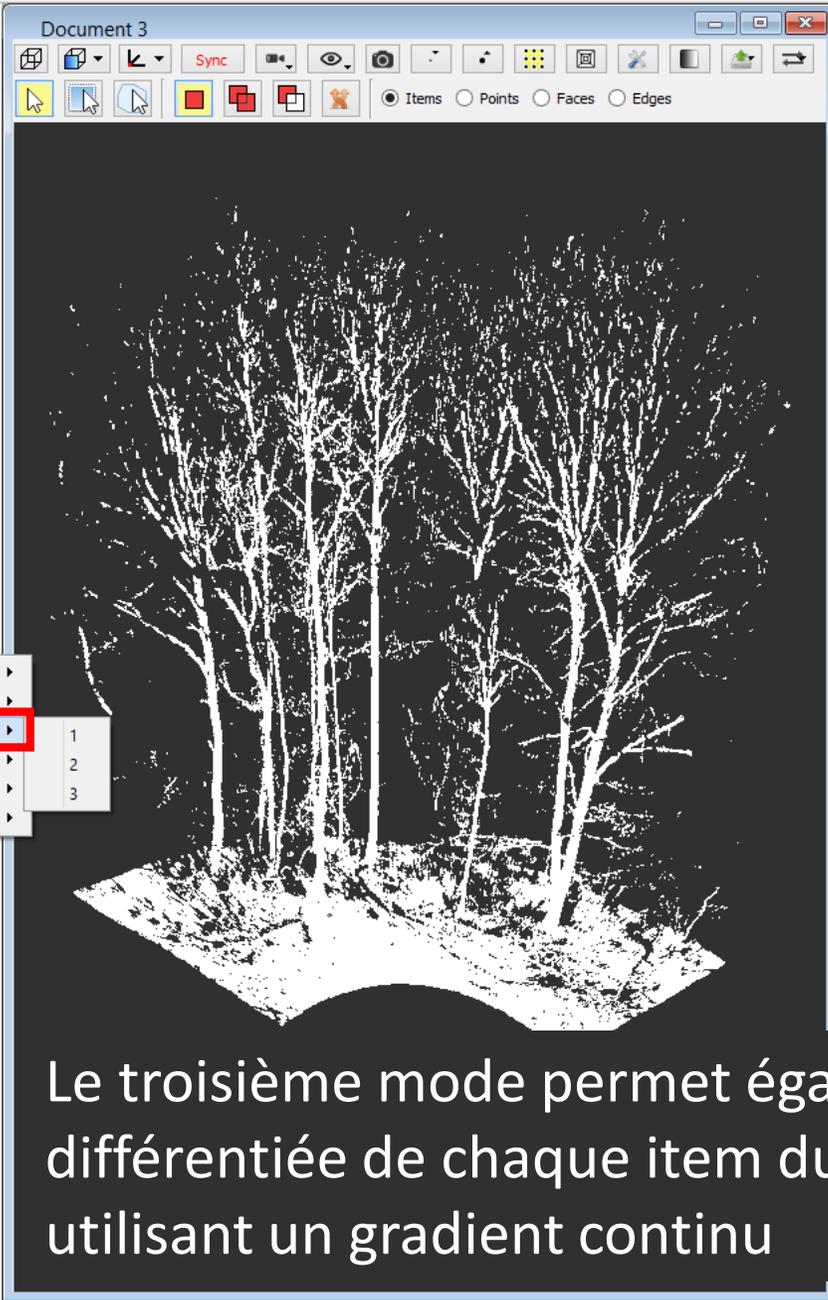
- Plain color
- Automatic color (distinct colors)
- Automatic color (color gradient)**
- Colorize by...
- Colorize points of each element by
- Colorize points of all elements by

Item configurator

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

Apply Auto



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

Le troisième mode permet également une colorisation différenciée de chaque item du niveau considéré, mais en utilisant un gradient continu



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)

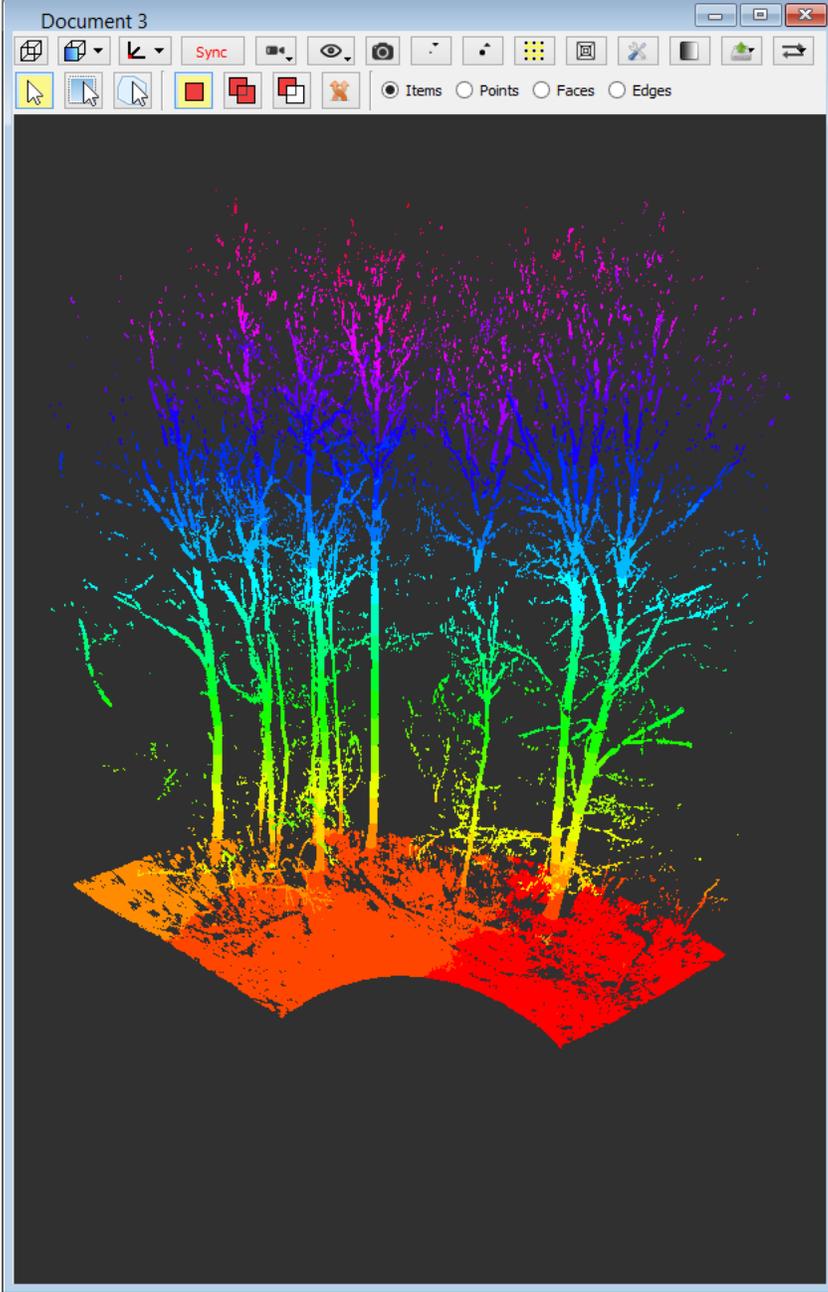
name	1	2	3	Type
Sliced scene				
rootslice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Point cluster

Item configurator

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

Apply Auto



Document 2 (ItemModel)

Sync with.. Filter the column... Apply

Sel.

Document 1

Items Points Faces Edges

Actions

Information

- Item information
- Selection
 - Sélection

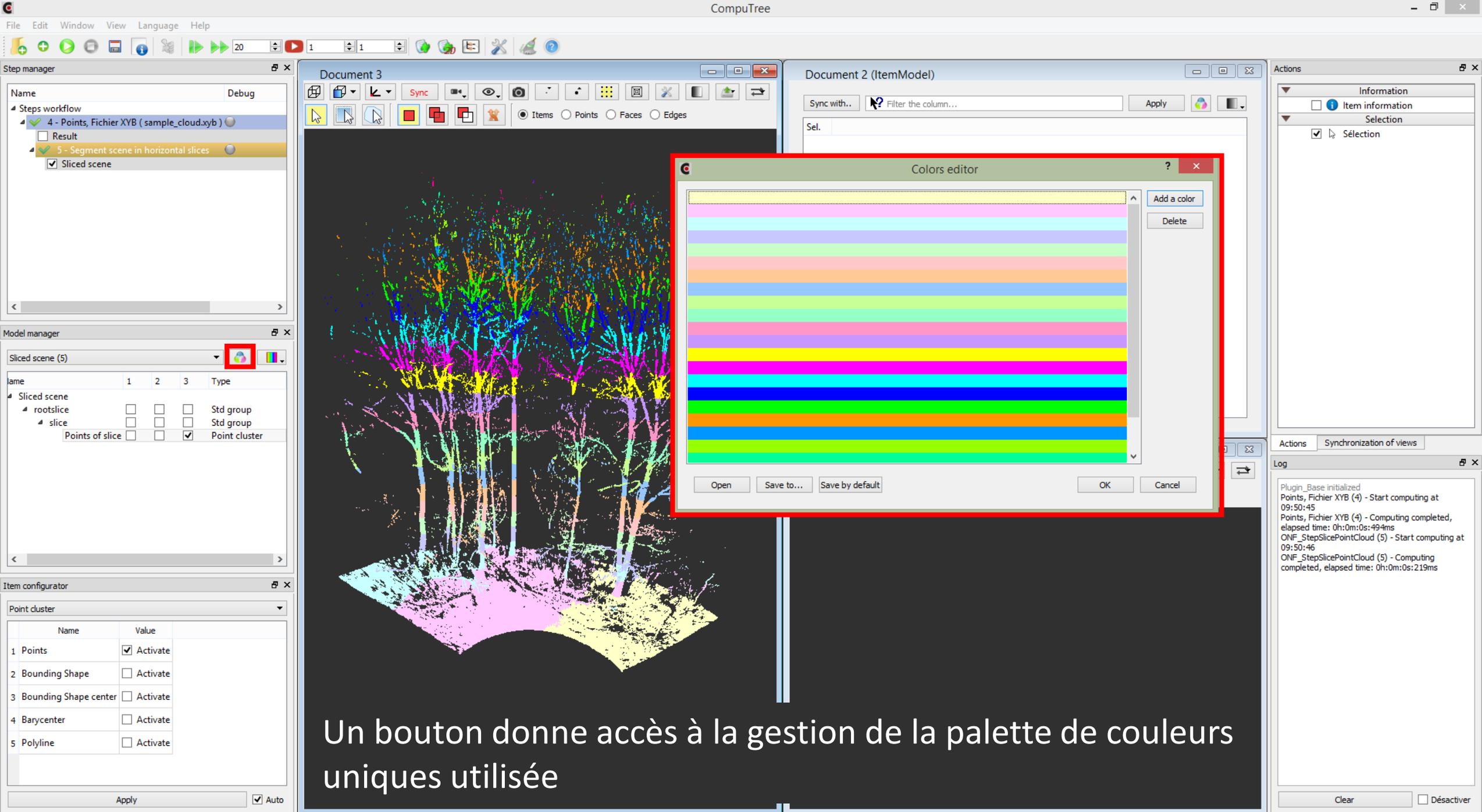
Actions Synchronization of views

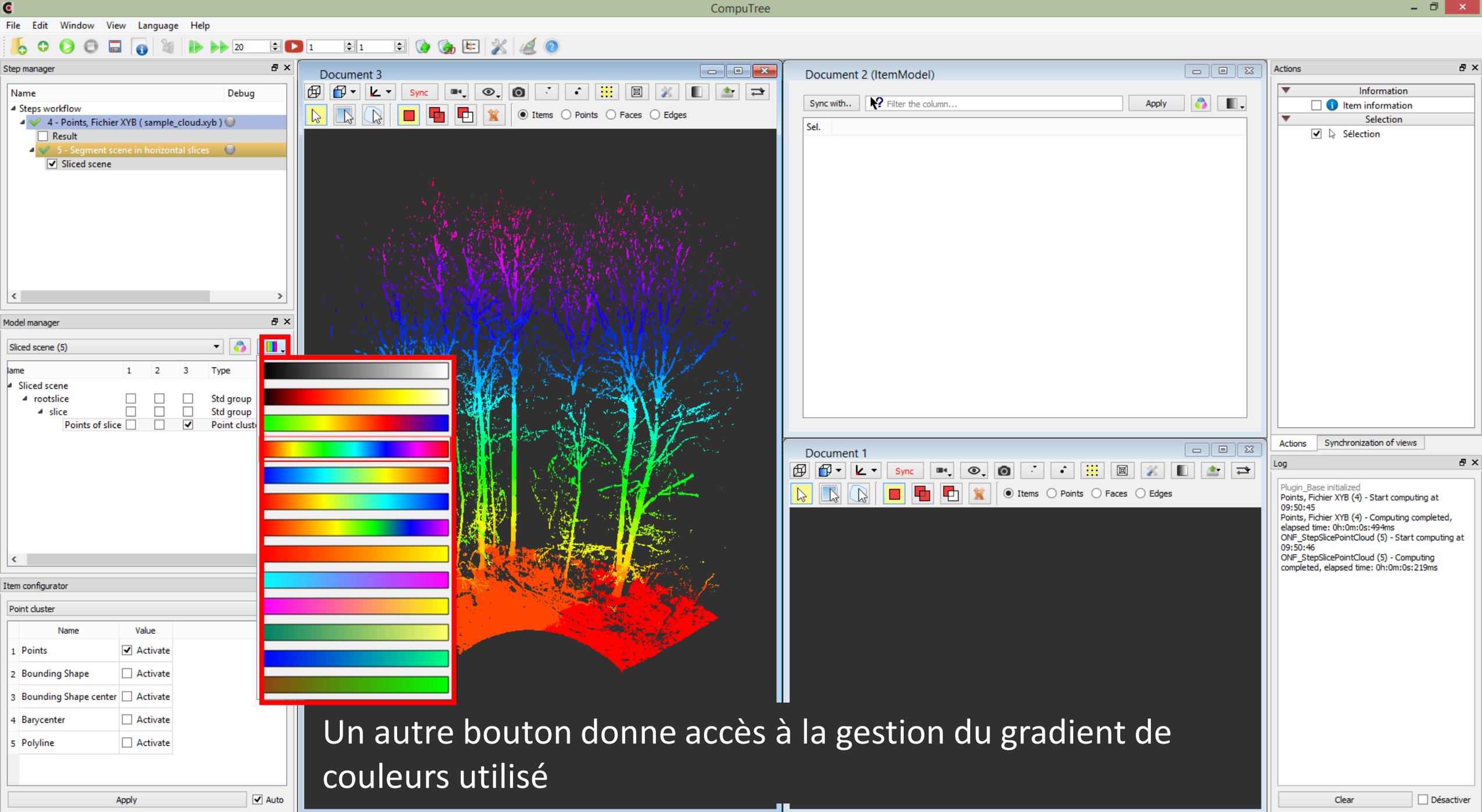
Log

```

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





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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Point cluster

Item configurator

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

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

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

Le quatrième mode permet une colorisation par gradient des items du niveau considéré, en fonction d'un attribut (ex. : nombre de points du cluster)

Colorize by...

- 1
- 2
- 3

Number of points



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)

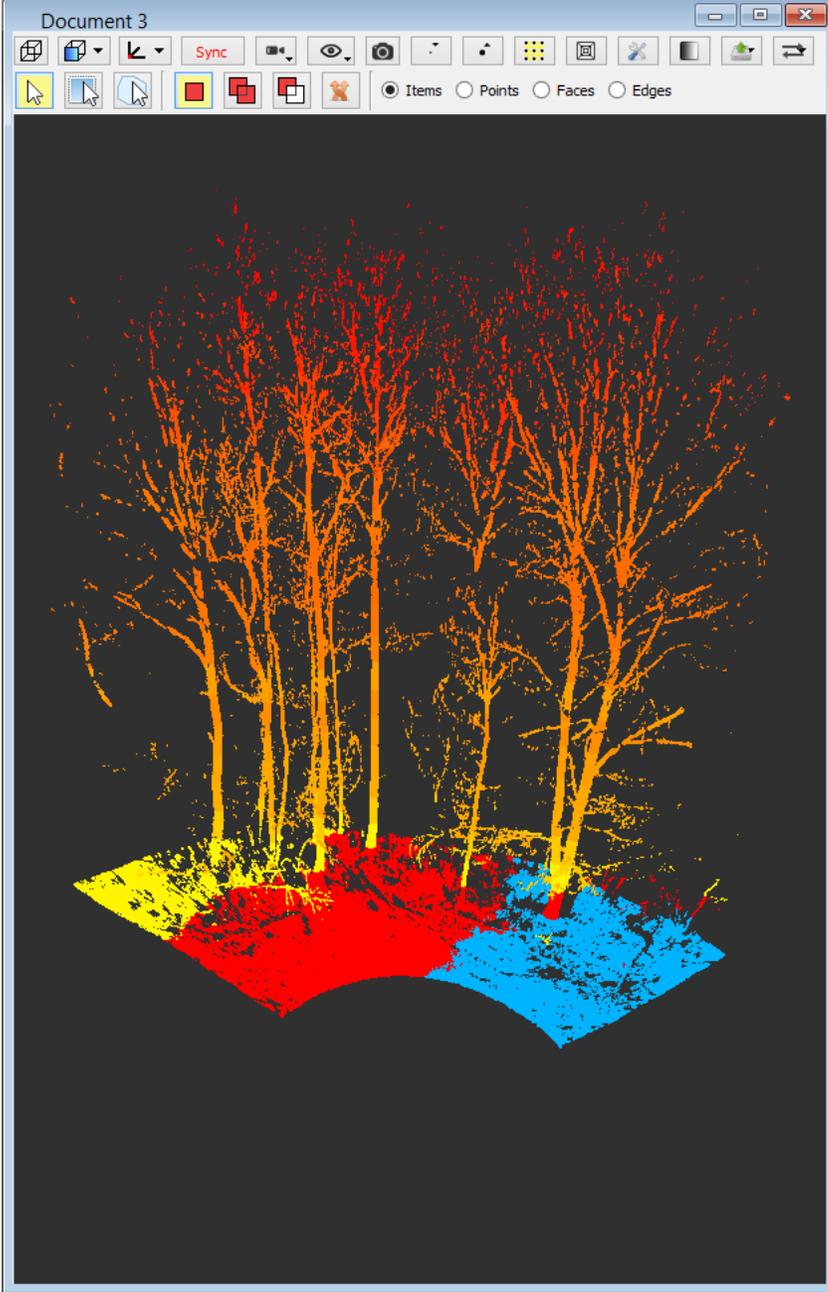
name	1	2	3	Type
Sliced scene				
rootslice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Point cluster

Item configurator

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

Apply Auto



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



Step manager

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

Model manager

Sliced scene (5)

Name	1	2	3	Type
Sliced scene				
rootslice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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

Item configurator

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

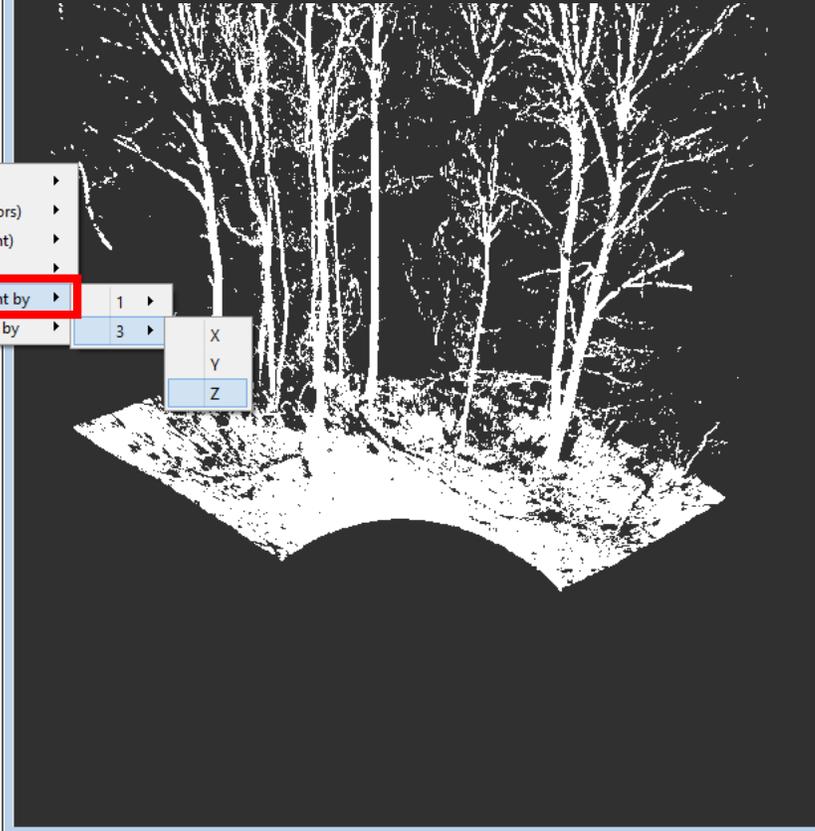
Apply Auto

Document 3

Sync

Items Points Faces Edges

Le cinquième mode uniquement applicable aux items contenant des points, permet pour chaque item une colorisation en gradient en fonction de la coordonnées X, Y ou 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



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)

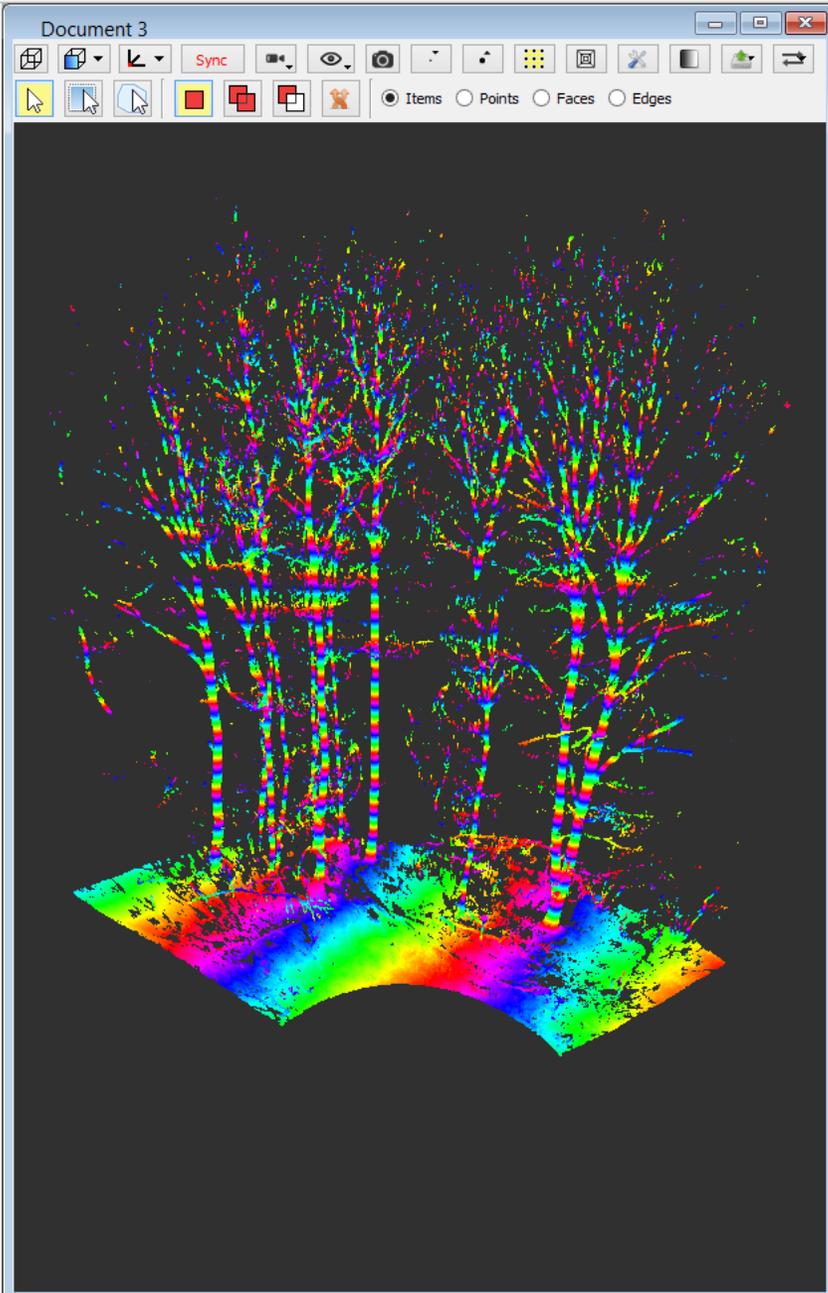
Name	1	2	3	Type
Sliced scene				
rootslice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Point cluster

Item configurator

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

Apply Auto



Document 2 (ItemModel)

Sync with.. Filter the column... Apply

Sel.

Document 1

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



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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Point cluster

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

Item configurator

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

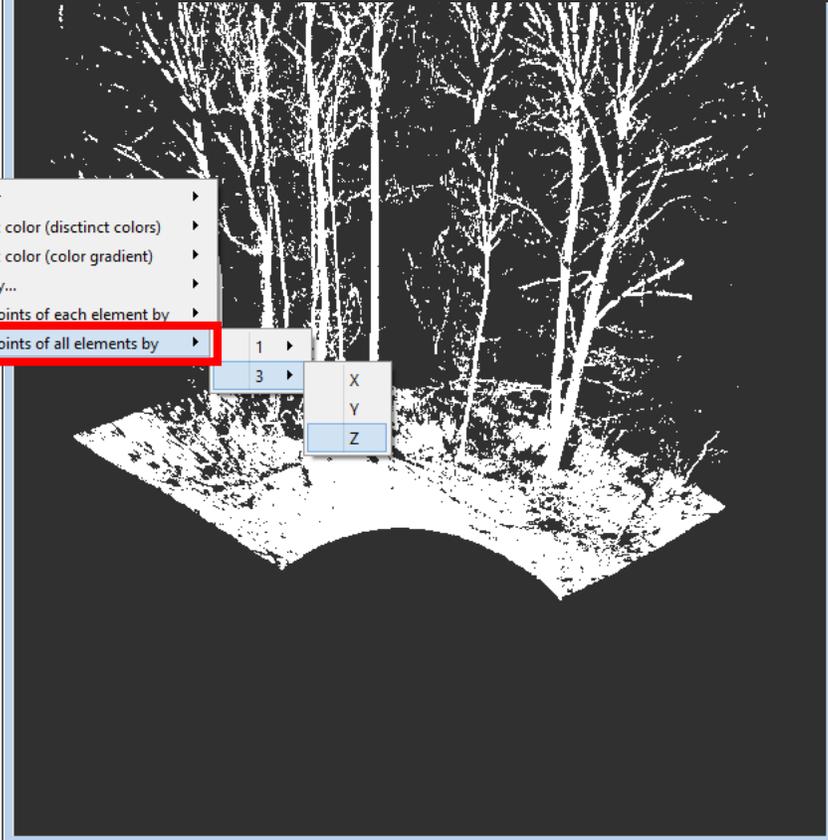
Apply Auto

Document 3

Sync

Items Points Faces Edges

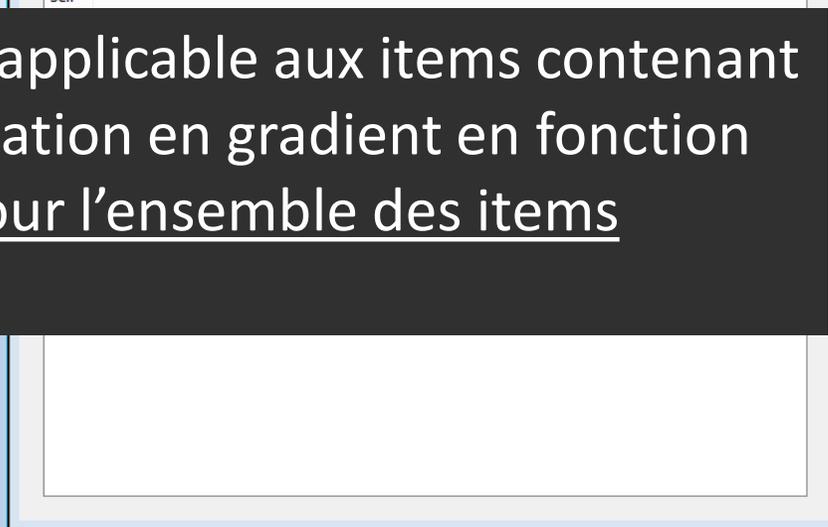
Le sixième mode uniquement applicable aux items contenant des points, permet une colorisation en gradient en fonction de la coordonnées X, Y ou Z pour l'ensemble des items affichés



Document 2 (ItemModel)

Sync with.. Filter the column... Apply

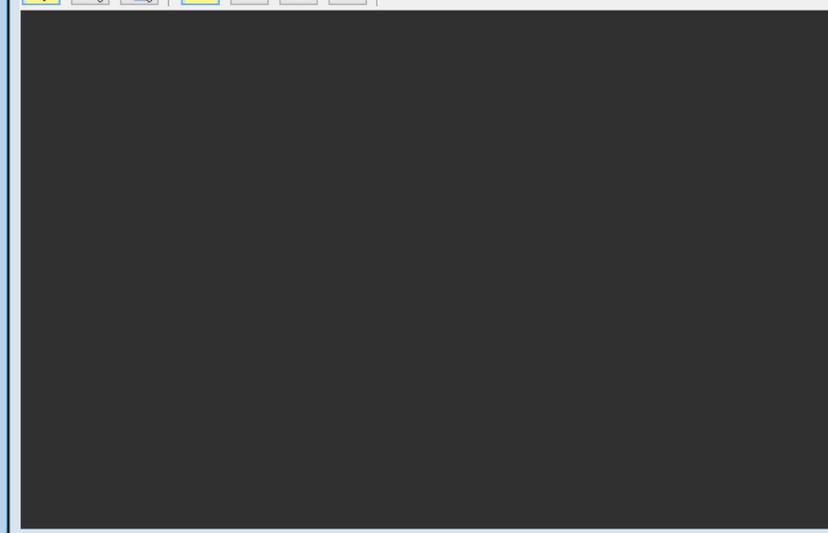
Sel.



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



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)

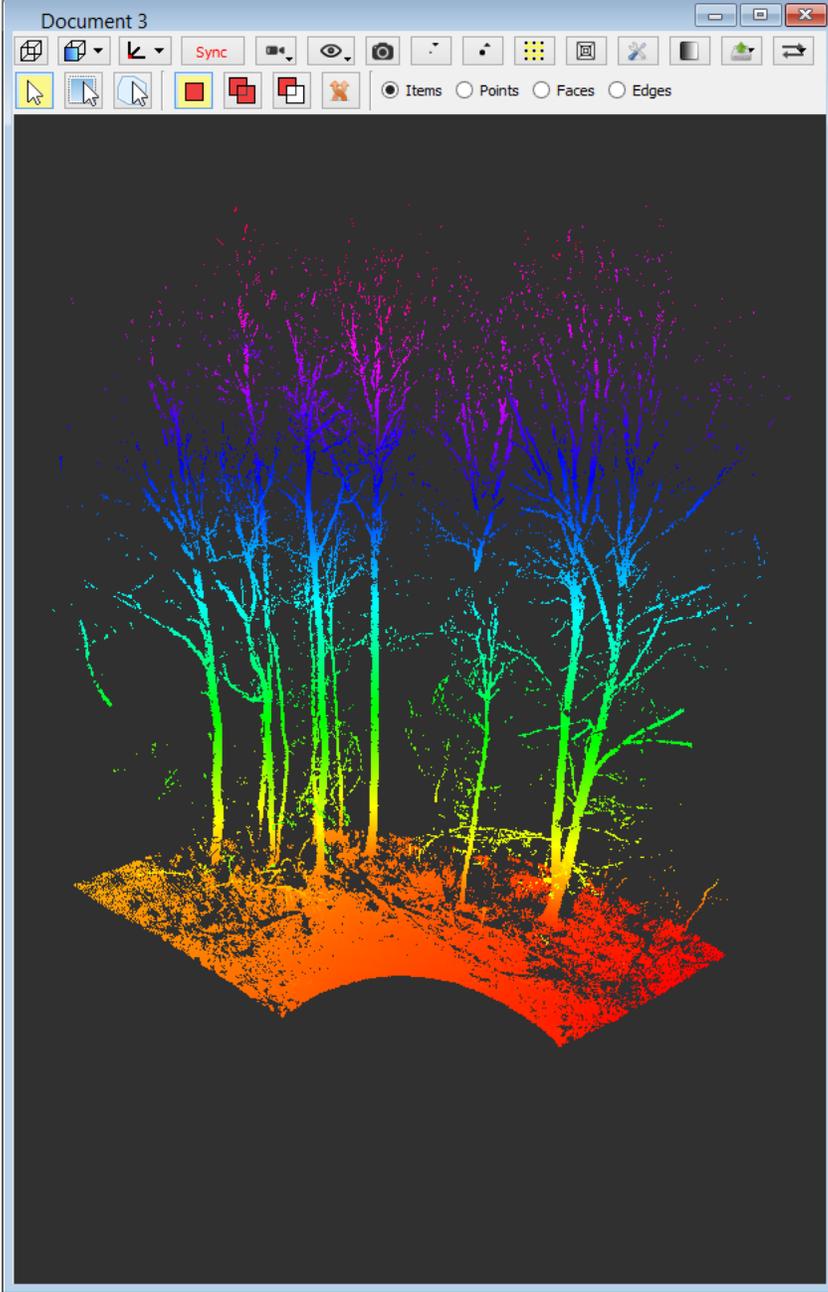
name	1	2	3	Type
Sliced scene				
rootslice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Point cluster

Item configurator

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

Apply Auto



Document 2 (ItemModel)

Sync with.. Filter the column...

Sel.

Document 1

Items Points Faces Edges

Actions

Information

- Item information

Selection

- Sélection

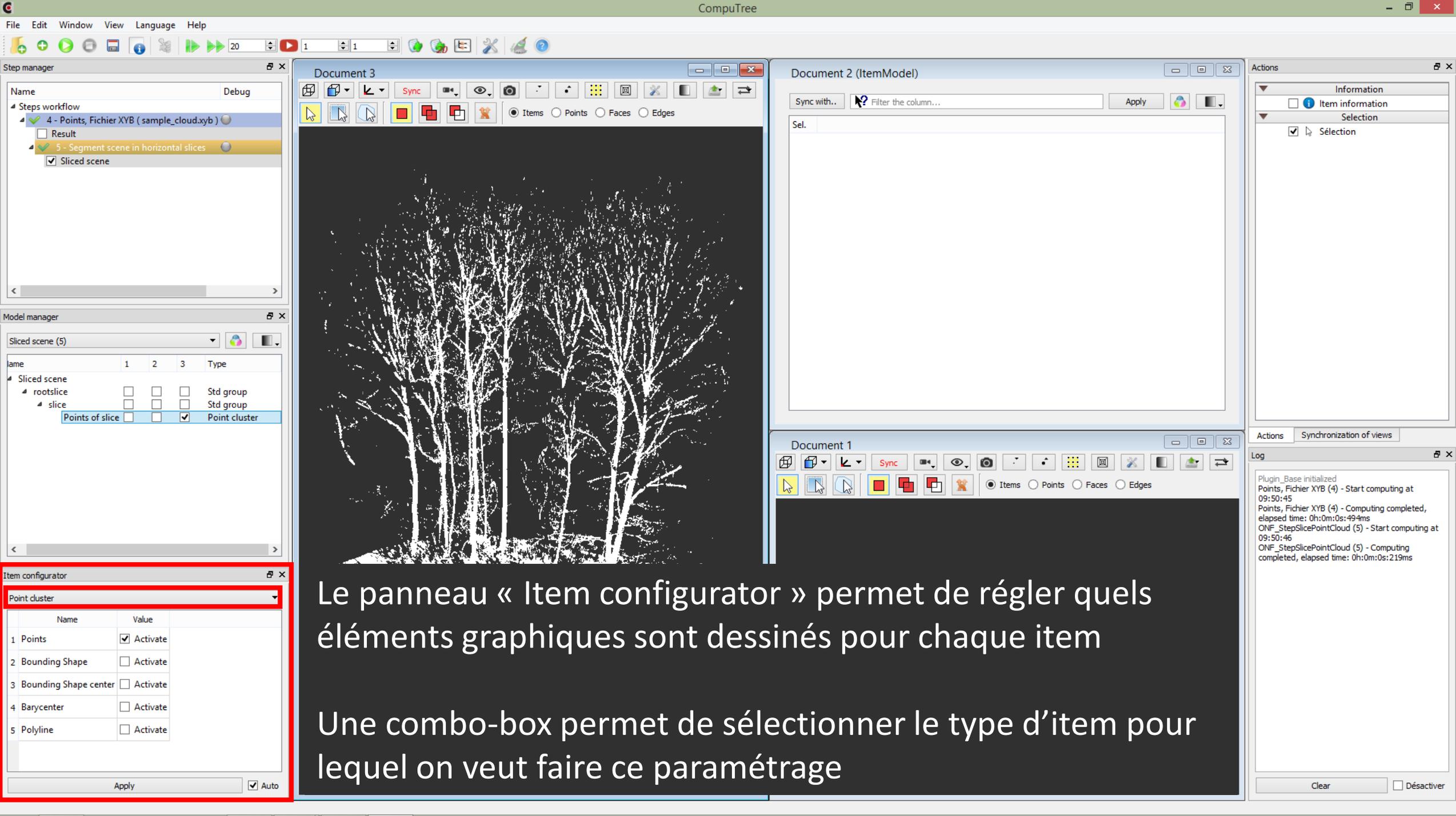
Actions Synchronization of views

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



Le panneau « Item configurator » permet de régler quels éléments graphiques sont dessinés pour chaque item

Une combo-box permet de sélectionner le type d'item pour lequel on veut faire ce paramétrage

Name Debug

Steps workflow

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

Sliced scene (5)

Name	1	2	3	Type
Sliced scene				
rootslice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Point cluster

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

Apply Auto

Sync with.. Filter the column... Apply

Sel.

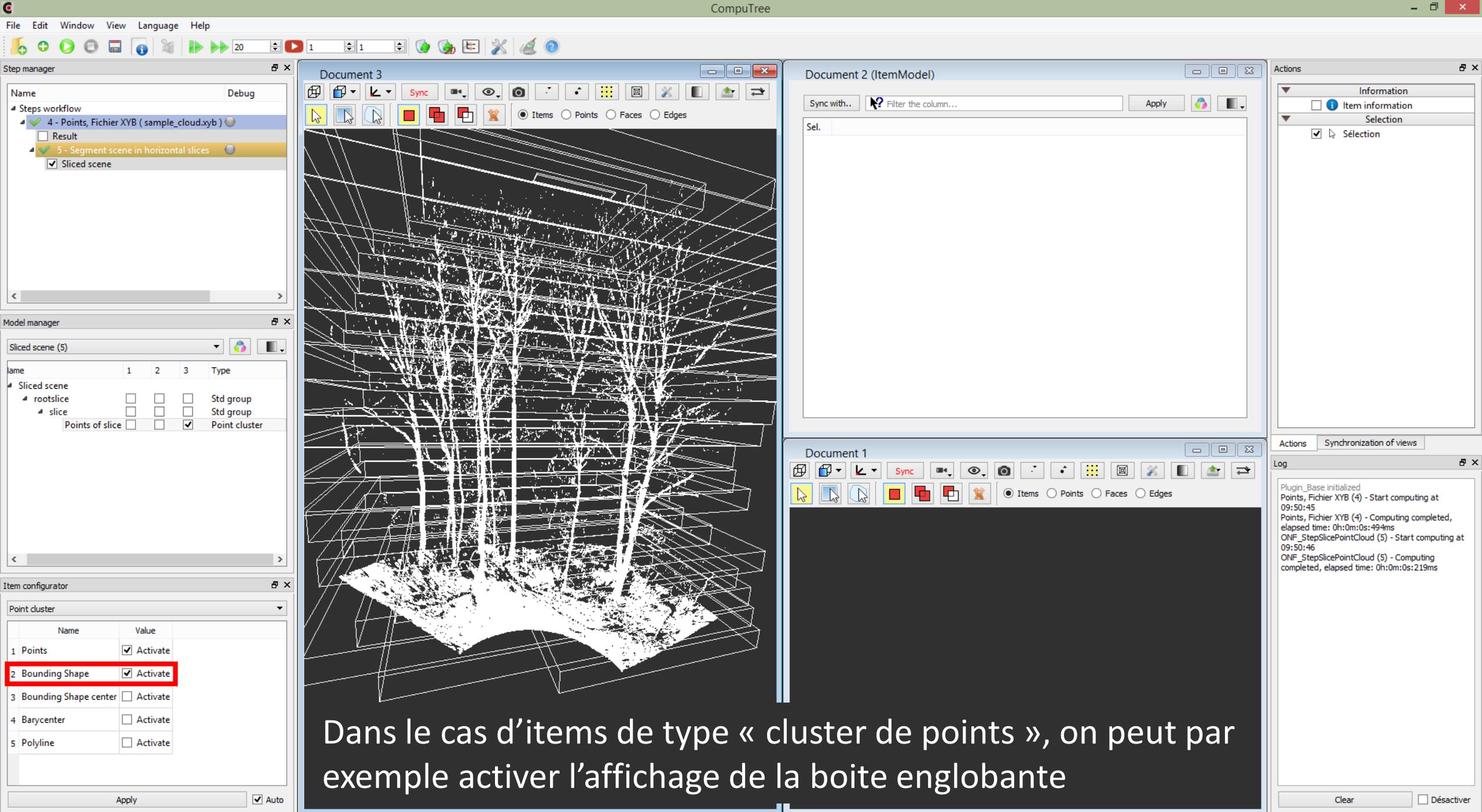
Items Points Faces Edges

Information

- Item information
- Selection
 - Sélection

```
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



Dans le cas d'items de type « cluster de points », on peut par exemple activer l'affichage de la boîte englobante

File Edit Window View Language Help

Step manager

Document 3

Document 2 (ItemModel)

Document 1

Model manager

Item configurator

Actions

Log

Document 3 toolbar: Sync, Items, Points, Faces, Edges

Document 2 toolbar: Sync with.., Filter the column..., Apply

Document 1 toolbar: Sync, Items, Points, Faces, Edges

Model manager: Sliced scene (5)

Name	1	2	3	Type
▲ Sliced scene				
▲ rootslice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
▲ slice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Point cluster

Item configurator: Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input checked="" type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

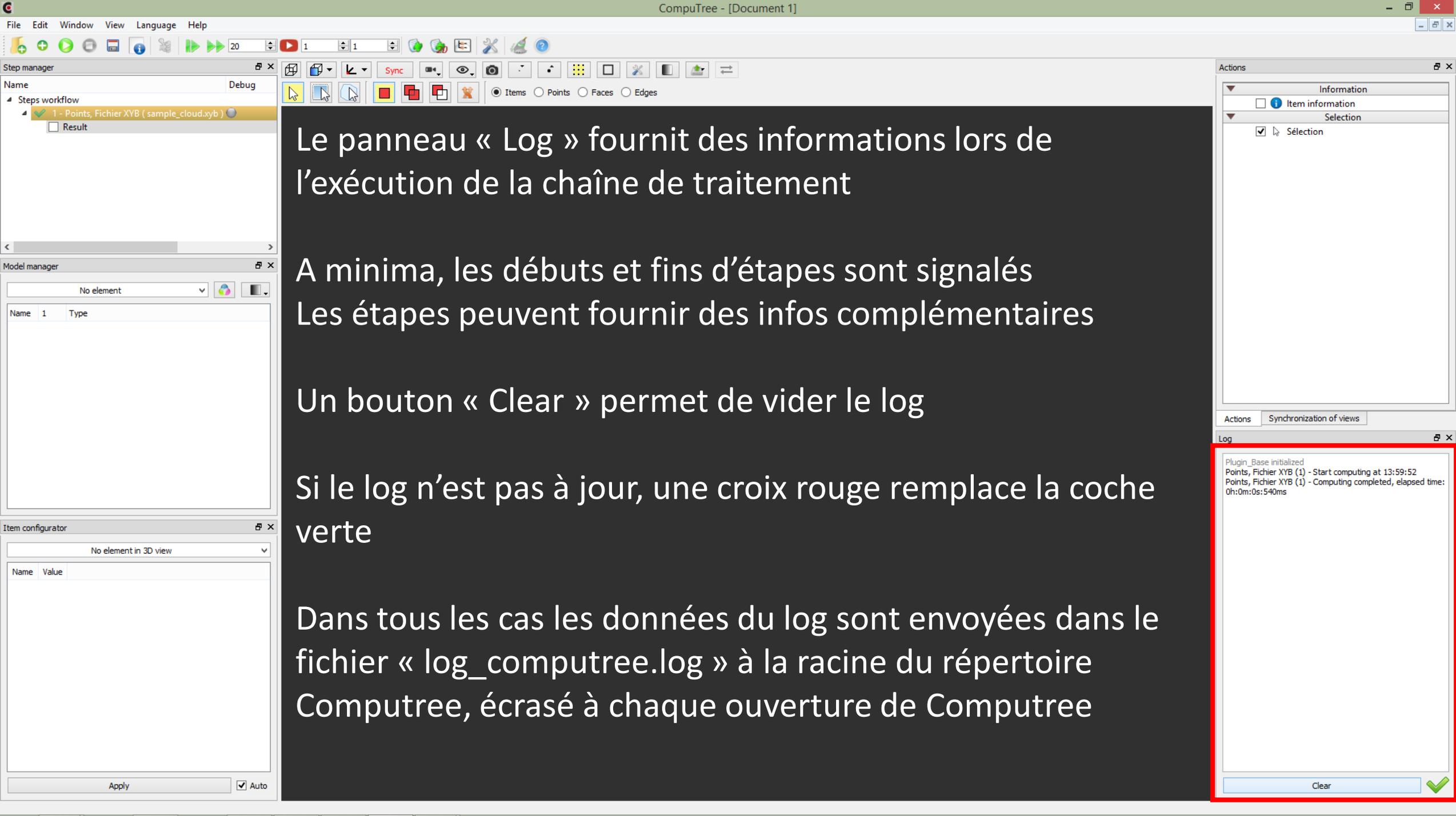
Actions: Synchronization of views

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

Apply Auto

Clear Désactiver

Si la case « auto » est cochée, les changements sont appliqués en temps réel. Sinon, il faut cliquer sur « Apply » pour appliquer les changements.



Le panneau « Log » fournit des informations lors de l'exécution de la chaîne de traitement

A minima, les débuts et fins d'étapes sont signalés
Les étapes peuvent fournir des infos complémentaires

Un bouton « Clear » permet de vider le log

Si le log n'est pas à jour, une croix rouge remplace la coche verte

Dans tous les cas les données du log sont envoyées dans le fichier « log_computree.log » à la racine du répertoire CompuTree, écrasé à chaque ouverture de 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	Type
Sliced scene	3
rootslice	Std group
slice	Std group
Points of slice	Point cluster

Item configurator

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input checked="" type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

Apply Auto

CompuTree - [Document 3]

Sync

Items Points Faces Edges

Actions

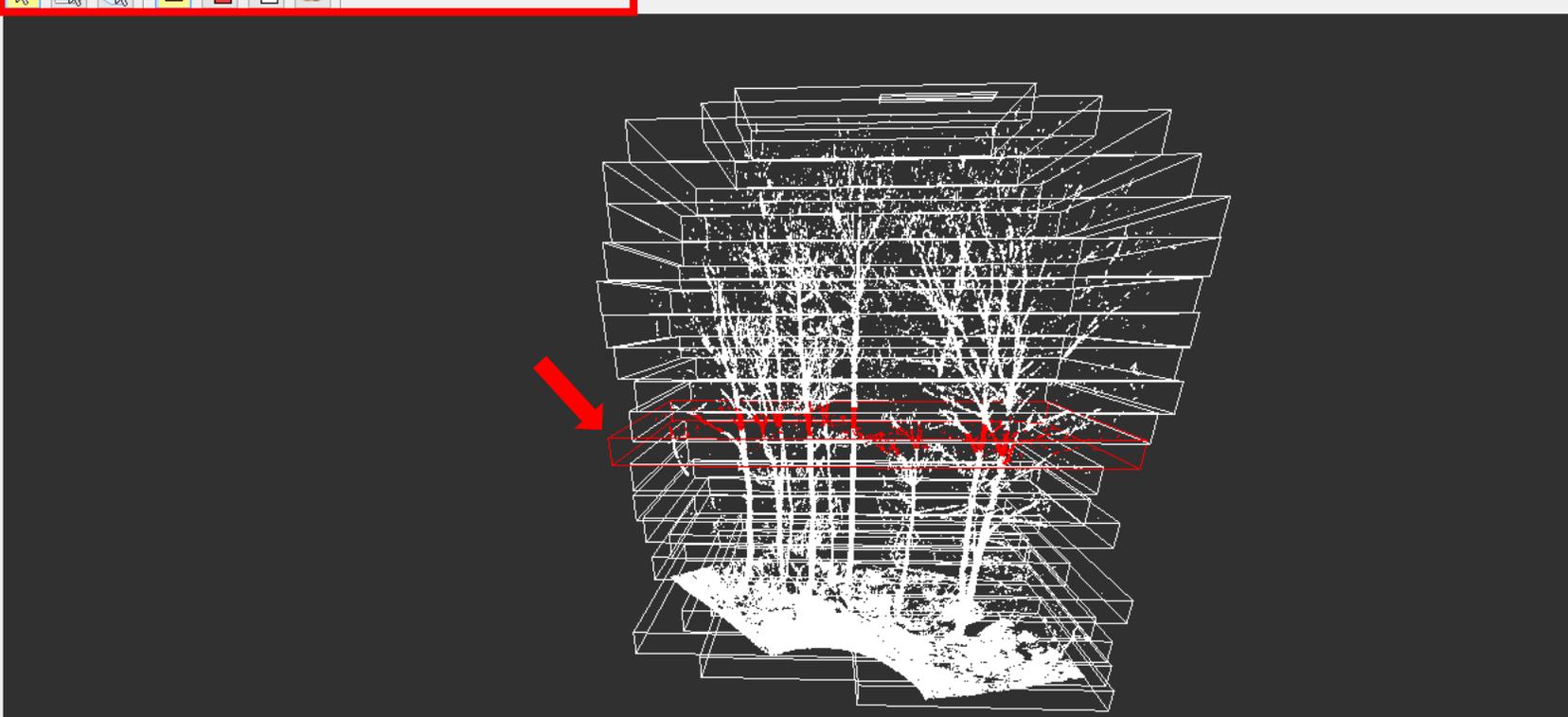
Information

- Item information
- Selection
 - Sélection

Actions Synchronization of views

Log

Clear Désactiver



Le panneau « Actions » détermine le type d'interaction possible avec la vue active.

Par défaut il s'agit de la sélection (clic gauche)

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	Type
Sliced scene	3
rootslice	Std group
slice	Std group
Points of slice	Point cluster

Item configurator

Point cluster

Name	Value
1 Points	<input checked="" type="checkbox"/> Activate
2 Bounding Shape	<input checked="" type="checkbox"/> Activate
3 Bounding Shape center	<input type="checkbox"/> Activate
4 Barycenter	<input type="checkbox"/> Activate
5 Polyline	<input type="checkbox"/> Activate

Actions

Information

- Item information

Selection

- Sélection

Actions Synchronization of views

Log

(X Y Z) = 7.449.36 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

Number of selected points = 40398
P1 { 7.43885 ; 9.35541 ; 7.8652 }
...

L'action « Item information » est également disponible, et affiche les attributs de l'item sélectionné (vue et log)



Step manager

Name Debug

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

Model manager

Sliced scene (5)

Name	3	Type
Sliced scene		
rootslice	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	Point cluster

Item configurator

No element in 3D view

Apply Auto

Le bouton « balai » permet d'enlever tous les items de toutes les vues

Actions

Information

Item information

Selection

Sélection

Actions Synchronization of views

Log

(X Y Z) = 7.449.36 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

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	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	Point cluster

Item configurator

No element in 3D view

Apply Auto

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

Synchronization of views

Log

(X Y Z) = 7.449.36 7.87

Informations on selected item:
ID = 196
Name = Points of slice_196
Center X = 1.0437002182006835938
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Size X = -18.968484878540039063
Size Y = 9.6122194528579711914
Size Z = 0.999980926513671875
Number of points = 40399

Clear Désactiver

Le bouton « aide » permet d'avoir un aperçu des ressources d'aide disponibles

The screenshot shows the CompuTree software interface. The 'File' menu is open, displaying options such as 'Open file (CTRL+O)', 'Save the steps tree (CTRL+S)', 'Informations de citation', 'Add a new 3D document (F7)', 'Add a new 2D document (F8)', 'Add a new tabular document (F9)', and 'Quit'. The main toolbar is visible below the menu, featuring various icons for file operations and 3D manipulation. The 'Model manager' panel on the left shows a 'Sliced scene (5)' with a tree structure including 'rootslice' and 'slice' sub-items. The 'Item configurator' panel at the bottom shows 'No element in 3D view' and an 'Apply' button.

Les menus « Fichier » et « Edition » reprennent les boutons de la barre d'outils principale

Le menu « Vues » a été décrit précédemment

Le menu « Language » permet la sélection de la langue de l'interface (un redémarrage est nécessaire pour que le changement soit pris en compte)

The screenshot shows the 'Actions' and 'Log' panels of the CompuTree software. The 'Actions' panel is open, showing a tree structure with 'Information' and 'Selection' sub-items. The 'Log' panel displays the coordinates of the selected item: (X Y Z) = 7.44 9.36 7.87. Below this, it provides detailed information for the selected item, including its ID, name, and various geometric parameters such as center coordinates, min/max values for X, Y, and Z, size, and the number of points.

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
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Max Z = 8.8606424331665039063
Size X = -18.968484878540039063
Size Y = 9.6122194528579711914
Size Z = 0.999980926513671875
Number of points = 40399

Clear Désactiver

Step manager

Name

Steps wo

- Steps wo
- 4
- +
- +
- +

Actions

Log

Steps

Component in tabs

Component in columns (Log at bottom)

Component in columns

F2

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

1 1

Sync

Items Points Faces Edges

Le menu « Fenêtre » permet d'afficher des panneaux qui auraient été fermés précédemment

Par ailleurs, il propose plusieurs mises en pages standard des panneaux

Actions

Information

Item information

Selection

Sélection

Actions Synchronization of views

Log

(X Y Z) = 7.449.36 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

Step manager

Name

- Steps wo
- 4
- Steps
- Component in tabs**
- Component in columns (Log at bottom)
- Component in columns

F2

Model manager

Sliced scene (5)

Name	3	Type
▲ Sliced scene		
▲ rootslice	<input type="checkbox"/>	Std group
▲ slice	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	Point cluster

Model manager Actions Log

Item configurator

No element in 3D view

Apply Auto

Item configurator Synchronization of views

1 1

Sync

Items Points Faces Edges

Tous les panneaux regroupés à gauche, empilés

Step manager

Name

Steps wo

4

+

F2

Component in tabs

Component in columns (Log at bottom)

Component in columns

1

1

Sync

Items Points Faces Edges

Tous les panneaux visibles simultanément, log en bas

Model manager

Sliced scene (5)

Name	3	Type
▲ Sliced scene		
▲ rootslice	<input type="checkbox"/>	Std group
▲ slice	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	Point cluster

Item configurator

No element in 3D view

Apply Auto

Actions

Information

Item information

Selection

Sélection

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 = 1.999999403953552461

Max Y = 11.612218856811523438

Min Z = 7.8606615066528320313

Clear

 Désactiver

Step manager

Name

- Steps wo
- 4
- +
- +
- +

Step manager menu:

- Step manager
- Model manager
- Item configurator
- Synchronization of views
- Actions
- Log
- Steps
- Component in tabs
- Component in columns (Log at bottom)
- Component in columns**

Model manager

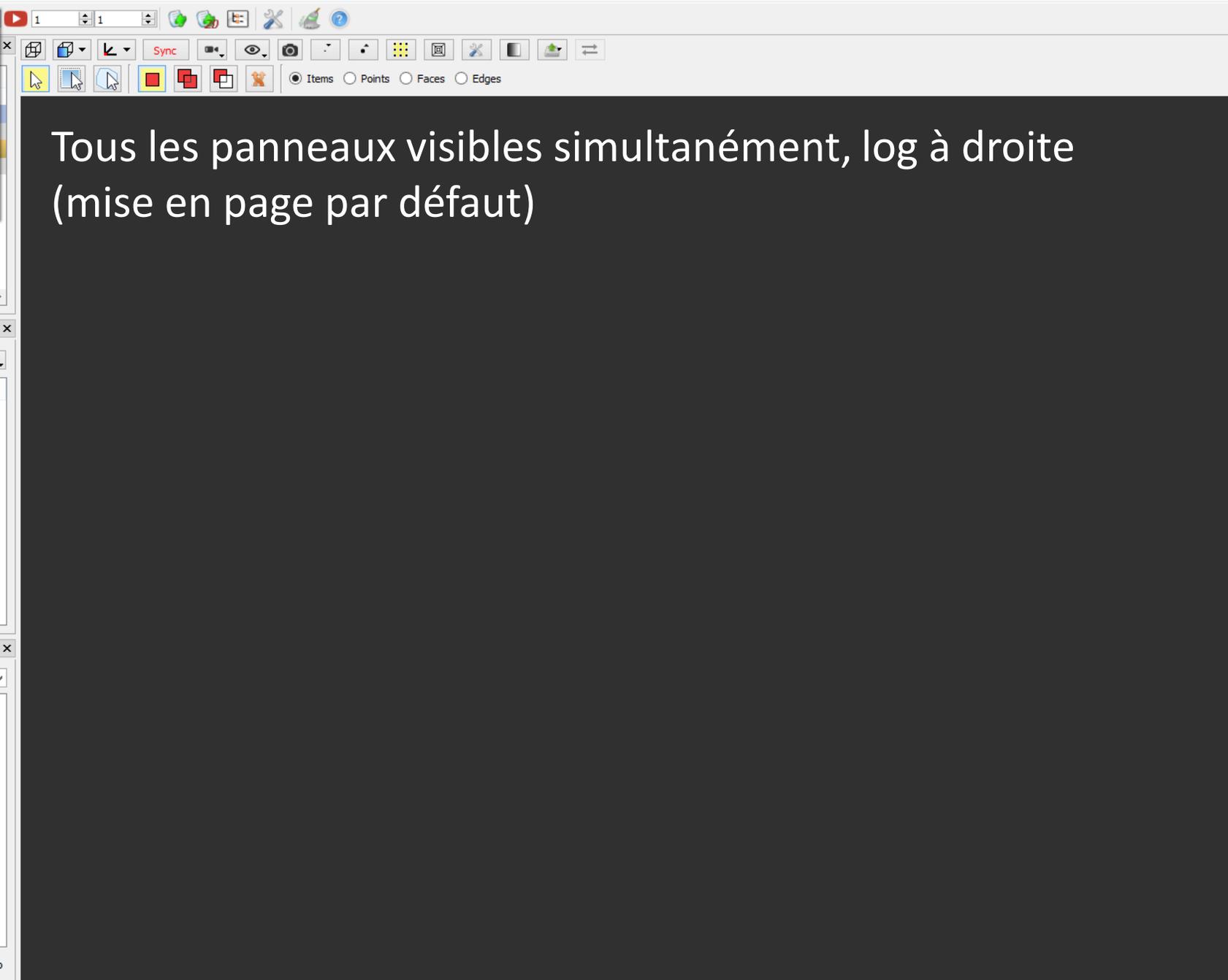
Sliced scene (5)

Name	3	Type
▲ Sliced scene		
▲ rootslice	<input type="checkbox"/>	Std group
▲ slice	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	Point cluster

Item configurator

No element in 3D view

Apply Auto



Actions

Information

- Item information

Selection

- Sélection

Actions Synchronization of views

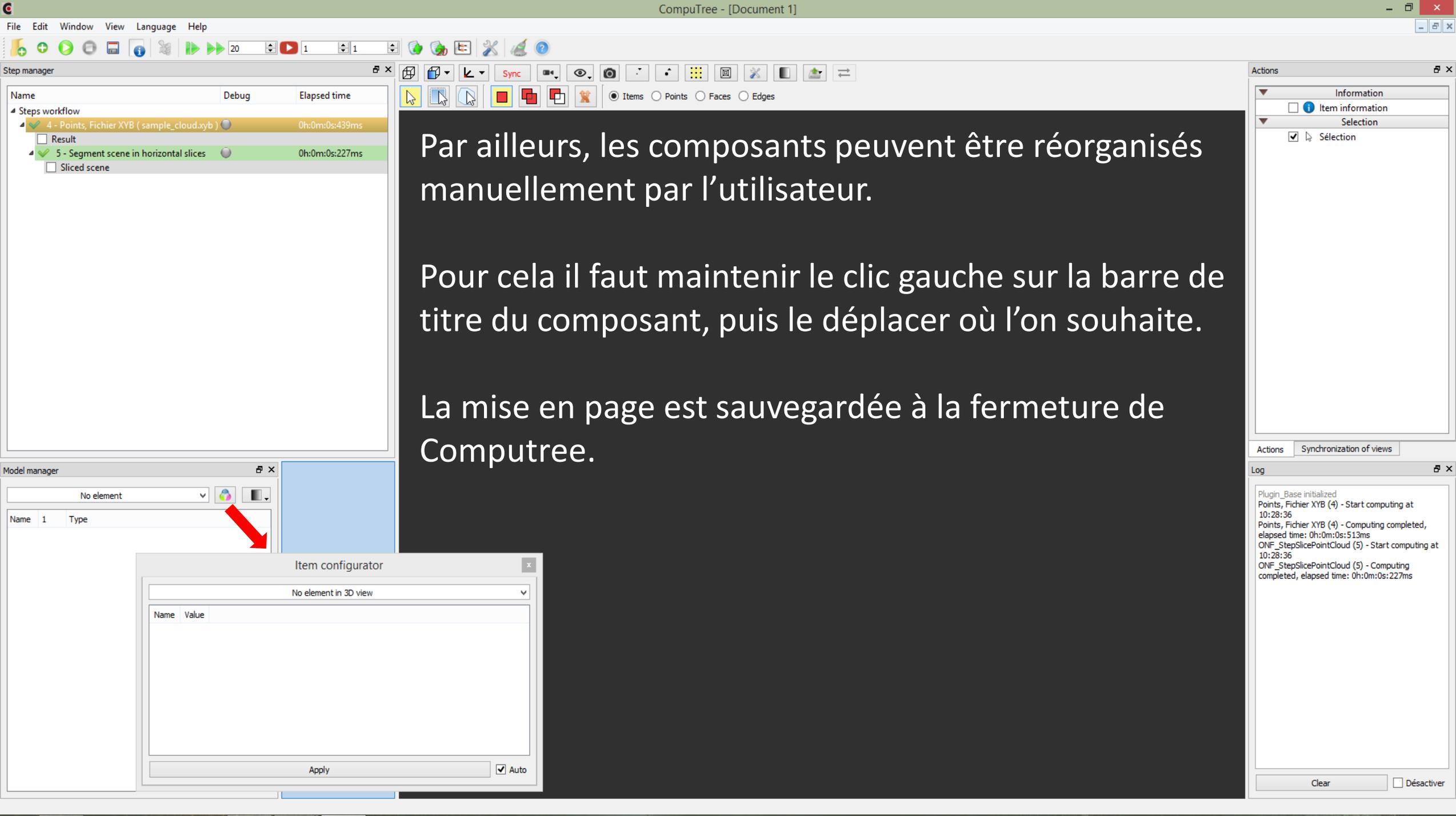
Log

(X Y Z) = 7.44 9.36 7.87

Informations on selected item:

ID = 196
Name = Points of slice_196
Center X = 1.0437002182006835938
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Max Z = 8.8606424331665039063
Size X = 18.968484878540039063
Size Y = 9.6122194528579711914
Size Z = 0.999980926513671875
Number of points = 40399

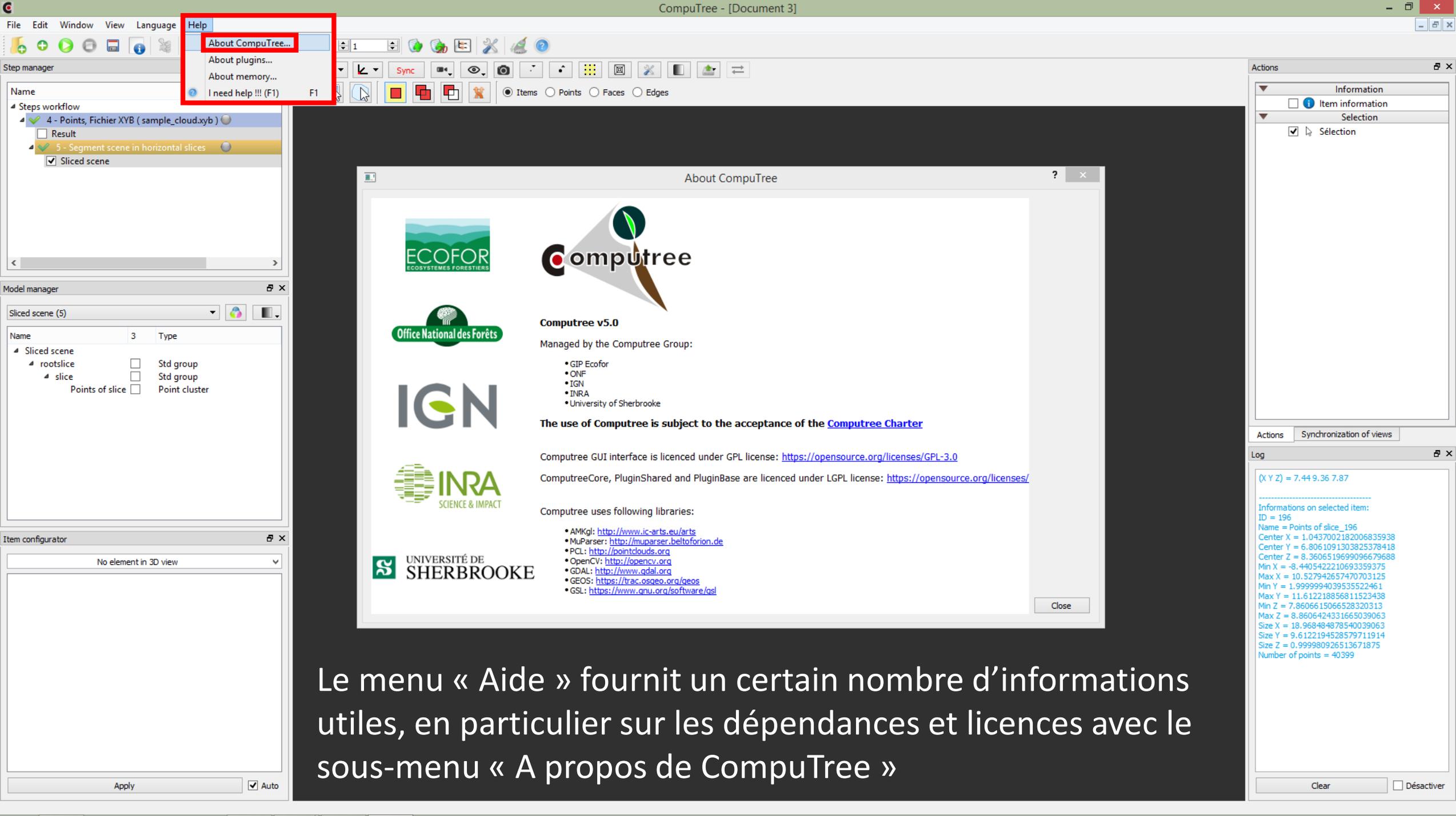
Clear Désactiver



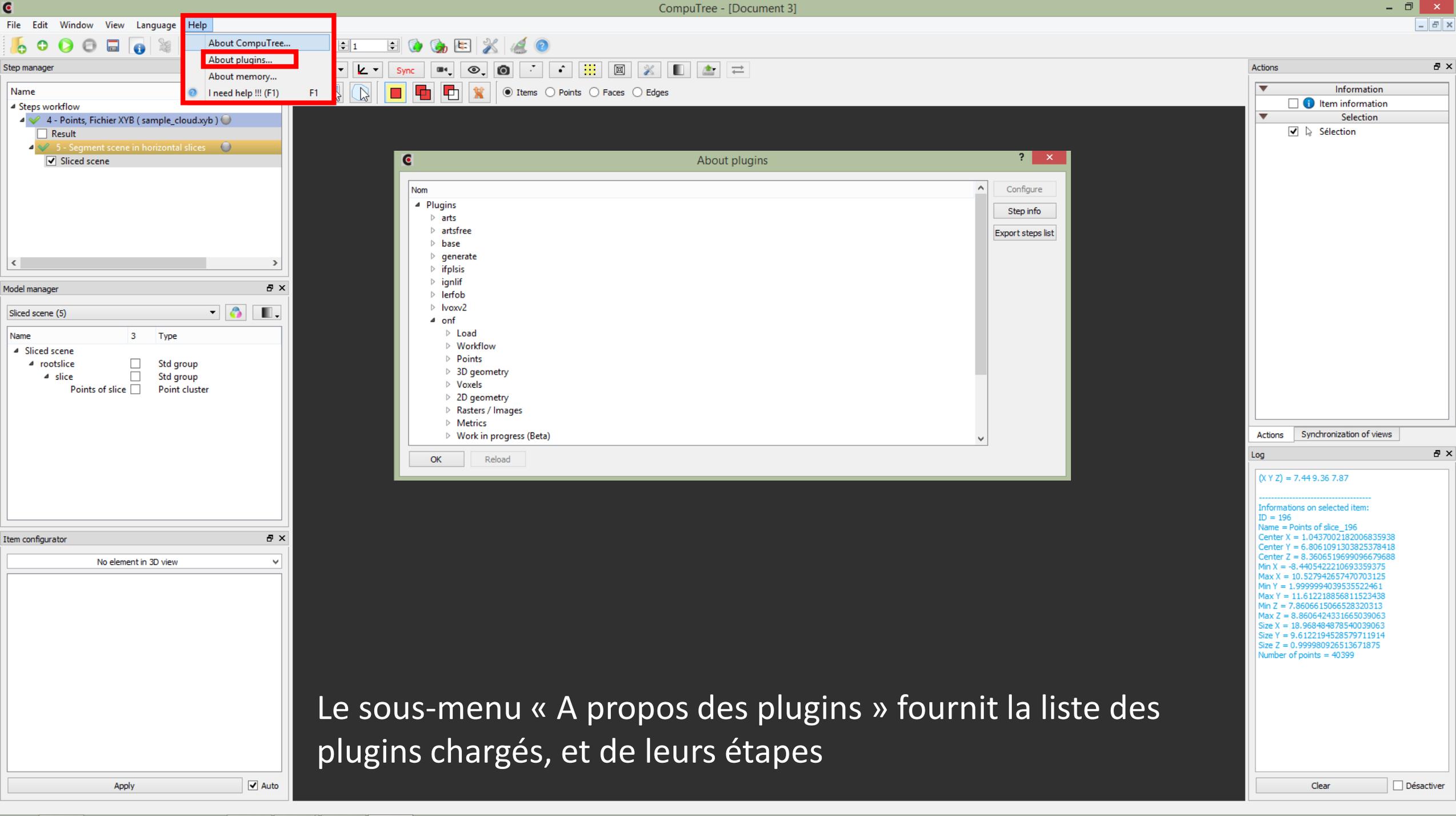
Par ailleurs, les composants peuvent être réorganisés manuellement par l'utilisateur.

Pour cela il faut maintenir le clic gauche sur la barre de titre du composant, puis le déplacer où l'on souhaite.

La mise en page est sauvegardée à la fermeture de Computree.



Le menu « Aide » fournit un certain nombre d'informations utiles, en particulier sur les dépendances et licences avec le sous-menu « A propos de CompuTree »



File Edit Window View Language Help
About CompuTree...
About plugins...
About memory...
I need help !!! (F1) F1

CompuTree - [Document 3]

1

Sync

Items Points Faces Edges

CompuTree - [Document 3]

?

Nom

- Plugins
 - arts
 - artsfree
 - base
 - generate
 - ifplsis
 - ignlif
 - lerfob
 - lvovx2
 - onf
 - Load
 - Workflow
 - Points
 - 3D geometry
 - Voxels
 - 2D geometry
 - Rasters / Images
 - Metrics
 - Work in progress (Beta)

Configure

Step info

Export steps list

OK Reload

Actions

Information

- Item information
- Selection
 - Sélection

Actions Synchronization of views

Log

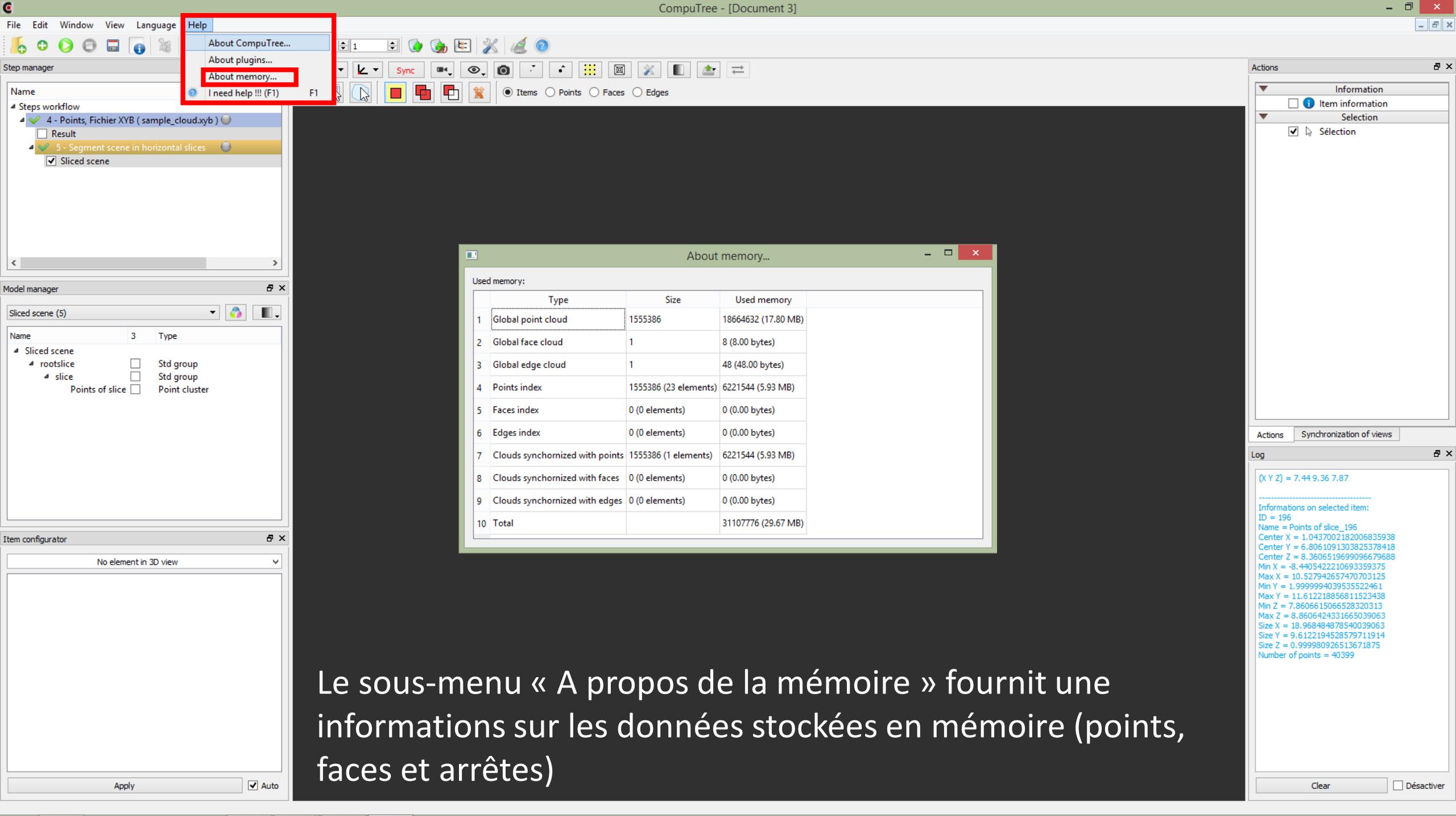
(X Y Z) = 7.44 9.36 7.87

Informations on selected item:

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Size X = 18.968484878540039063
Size Y = 9.6122194528579711914
Size Z = 0.999980926513671875
Number of points = 40399

Clear Désactiver

Le sous-menu « A propos des plugins » fournit la liste des plugins chargés, et de leurs étapes



- Help
- About CompuTree...
- About plugins...
- About memory...
- I need help !!! (F1) F1

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 synchronized with points	1555386 (1 elements)	6221544 (5.93 MB)
8	Clouds synchronized with faces	0 (0 elements)	0 (0.00 bytes)
9	Clouds synchronized with edges	0 (0 elements)	0 (0.00 bytes)
10	Total		31107776 (29.67 MB)

Le sous-menu « A propos de la mémoire » fournit une informations sur les données stockées en mémoire (points, faces et arrêtes)

(X Y Z) = 7.44 9.36 7.87

Informations on selected item:
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Center Z = 8.3606519699096679688
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Max X = 10.527942657470703125
Min Y = 1.9999994039535522461
Max Y = 11.612218856811523438
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Max Z = 8.8606424331665039063
Size X = 18.968484878540039063
Size Y = 9.6122194528579711914
Size Z = 0.999980926513671875
Number of points = 40399

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	<input type="checkbox"/>	Std group
slice	<input type="checkbox"/>	Std group
Points of slice	<input type="checkbox"/>	Point cluster

Item configurator

No element in 3D view

Apply Auto

Pour quitter Computree, cliquer sur la case de fermeture de l'application

Le premier clic décharge la chaine de traitement en cours

Le second clic ferme l'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 = 1.0437002182006835938
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Clear Désactiver