

User documentation for TiledViz

This documentation aims to provide the user of TiledViz with basic knowledge about the interface and how to use it.

The tiles



The tiles may contain an image, a video, or other kind of visual data.

The hitbox

On the left side of the tile, the black vertical zone enables to interact with the environment. It will be called the "hitbox" in the following.

Its color changes according to the current action :

Color	Meaning
Dark red	The mouse is over the tile (only with desktop browsers).
Red	The tile is selected to be swapped with another one.
Green	The tile is selected for zoom mode or master-slave mode.




The stickers

On the right side, a vertical blank zone is designed to show the stickers of the tiles. These are colored squares representing filters or tags given to the tile. Each time they are shown, a legend is also displayed at the top of the screen.

The handle

At the bottom left corner, a hand-shaped icon is dedicated to drag and drop actions.

Its color changes according to the current state of the tile:

Color	Icon	Meaning
White		The tile may be drag-and-dropped.
Green		The tile is currently draggable.
Gray		Drag-and-drop is not available at this time.

Interacting with the tiles

Moving tiles

For the movements, the animation and animation speeds can be defined in the config file.

Swapping two individual tiles

The tiles are not exactly swapped, rather, the second one is moved next to the first one, and the neighbouring tiles are re-arranged to preserve the coherence of the data. This action can be undone with the "Undo" button of the Global menu.

Action	Behaviour on desktop browser	Behaviour on WildOS
1. Hover over the first tile.	The hitbox becomes dark red.	The hitbox stays black (the cursor is not detected by design).
2. Click on the hitbox.	It becomes red.	It becomes red.
3. Hover over the second tile.	Its hitbox becomes dark red.	Its hitbox stays black.
4. Click on the hitbox of the second tile.	Done !	Done !

"Drag-and-drop"-ing tiles (only on desktop browsers)

This can be done when selecting the little hand at the bottom left corner of the tile and moving it to its destination. Like with the swap, the two tiles become contiguous, rather than really swapping their position.

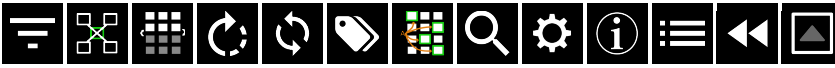
When drag and dropping a transparent tile, the tile is overlapped on the underlaying tile, enabling the user to compare data by transparency.

Options in `config_default.js` as well as in the option menu enable to unload the tile when dragging ("Move only a border") or to move them along a grid ("Move on grid").

Swapping entire lines or columns

The two last options in the individual menu of each tile allow the user to swap the line (resp. column) of this tile with another line (resp. column) by clicking the same button on a tile of the destination line (resp. column). See documentation on these icons (in the *Tile menu* section) for more information.

Global menu



The menu lies on the left side of the interface. For each option or item in the global menu, the tag menu or the tile menu, the icon will appear white if the option is not selected or used, and grey if it is selected. To select a menu item, you have to click on it. If you entered an option and do not wish anymore to go further with it, clicking on the grey icon will exit it.



Filter with keywords

Type keywords in the research bar, they will be matched with a list of keywords extracted from the meta-data of the tiles. Auto-completion is enabled for this field. The "&" can be used to combine several keywords. Upon hitting "Enter", the tiles corresponding to the keywords are moved to the top, and little stickers appears on their right side to show to which keyword(s) they fit. The legend for the colors is shown at the top right of the interface.

- Filter node through tags and zoom on filtered nodes
 1. Launch a simple research
 - type the keyword in the search bar and press enter : the matching nodes will move to the top of the grid, the other ones will stay at the bottom and become darker.
 2. Launch a multiple research
 - type the keywords in the search bar, using the symbol "&" as separator ("pressure&heat" to search for both terms) :
 - a legend with different colors will be shown at the top of the screen.
 - Clean search : click on the Eraser icon on the upper-right corner.
- This filter use JQuery UI modules : autocompletes, see <https://jqueryui.com/autocomplete/> for details



Clear all selections

Click on the icon clear all the selections on the session.



Show next tiles

Click on the icon will reorganize the grid and show the next page of tiles below.



Rotate tiles

Shows little rotation icons for each tile (only activated with a touch table or a tablet if it is detected).



Refresh tiles

Refresh all the nodes with their original sources.



Menu for tags

Tags are representation of metadata of each tile.

You can sort, select, hide or delete tiles with them in this menu. And you manage them : add or remove tags

See below in Tags menu section.



Menu for actions on each TileSets

Actions are specific functions programmed with each tilesets.

Action functions are programmed in the case python script for CONNECTION TileSets only.

You can programm change of the source and with the first button it will force TiledViz to update the list of nodes and the metadata (title, tags, ...).



Zoom sub-menu

All zoom functions on tiles : Global, master-slave, fast zoom.



Management sub-menu

All management functions : Draws, save, options, help.



Informations

Clicking on this icon displays the title (or name) of each tile at their upper right corner, if this feature is not activated by default in the Settings menu.



Menu for Tile

In this menu, you can write information or draw on each tile. You can sort with column or lines with one tile.

See below in Tile menu section.



Menu for cancel/redo tiles moves' menu

Cancel/Redo and buttons



Menu for moving up and down lines

Up and Down buttons : all the grid will switch a line.

For up button, the first line will go to be the last one and for down it will be the last one wich appear at the first line position.



Tags menu

This icon opens the tag menu and shows the tags on the tiles, and the legend of already present tags. It allows further operations on the tags.



Give a tag to a tile

Click on the tag in the legend, it will get a red border. Then, you have to click on the hitbox of the tile to see the tag appear on its right side.

Remove a tag from a tile

Click on the sticker to remove a single tag from a tile.



Group all tiles with the same tag

Click on this icon, then on a tag in the legend. All the tiles bearing this tag (as displayed by their stickers) will be moved towards the upper left corner of the grid.



Change sort order with align/group tags function.

Click on this icon, then a menu for sort order appear. Default order is ascendant. Click to descendant button to change it for next alignTags action.



Hidding nodes with the tags

Click on this button then click on a tag to hide all nodes with this tag. Click again on this button on a tag and unhide all nodes with this other tag.



Kill nodes with the tags

Suppress all nodes with selected tags.

All suppressed nodes are not saved if save button is clicked in global menu.

Selections and Tags sub-menu



Select tiles with the same tag

Click the zoom or MS global menu icon, then click on tag menu to enable tag selection with this icon. Click on a tag in the legend. All the tiles bearing this tag (as displayed by their green hitbox) will be selected for the first action.



Selection to a tag

Link actual selection to a tag after click on this button.

Tags management sub-menu



Add a tag

Prompts a text field to enter the name of the new tag. Please avoid to insert special characters, they should be treated and replaced, but it may cause further problems.



Remove a tag

Click on this icon, then on the tag to remove in the legend. The tag will disappear, as well as the corresponding stickers on the tiles.



Erase the tags

Clicking on this icon will remove all the tags and the stickers.



Change color of a tag

Clicking on this icon will open a palette. You can click on a tag and change its colors by choosing a new one in the palette.


Zoom Global Menu

Once the zoom interface with all the tiles appears, you can then move them all at once.



Zoom

After clicking on this icon, select the tiles you wish to zoom on. To select them, click on the corresponding hitbox on the left of the tile, it will become green, meaning that the tile has correctly been selected.

Then, click on the button  to expand the view to only the selected nodes.

To go back to the initial view, click again on the button .



Master-slave mode

This mode enables to control all selected tiles using one of them as a controller. It gives a parallel interaction on interactive tiles without any adaptation on the TileSet case. Every move or key hit on the Master Tile will be replicated on other chosen tiles.

Note that keyboard will work only after user has given the hand to the master tile by clicking on the title bar or on the grey part on the sides.

To chose tiles, click on the hitbox, that will become green. then, click on the button



to activate master-slave mode on this selection.



Individual zoom

Adds a Zoom icon at the bottom right corner of each tile; when clicked, the tile is magnified.

Management Buttons



Draws management

This menu is used to manage draws reported by the draw on a tile button in draw menu.

A tabular is given for each reported draw with the number of the origin of the draw in first column and the number of clones on all nodes reporting on second column.

If you click on the first check box, it will erase the draw and all its clones and the second check box will only hide all the draws.



Save

Upon clicking on this button, the notes written for each tile, the tags and the position of the tiles are saved in an auxiliary file which can later be reopened to continue the session or to be used as a starting point for the next.



Settings

This icon opens the settings menu, that will allow (in the next versions) to change on the fly some parameters of the application.

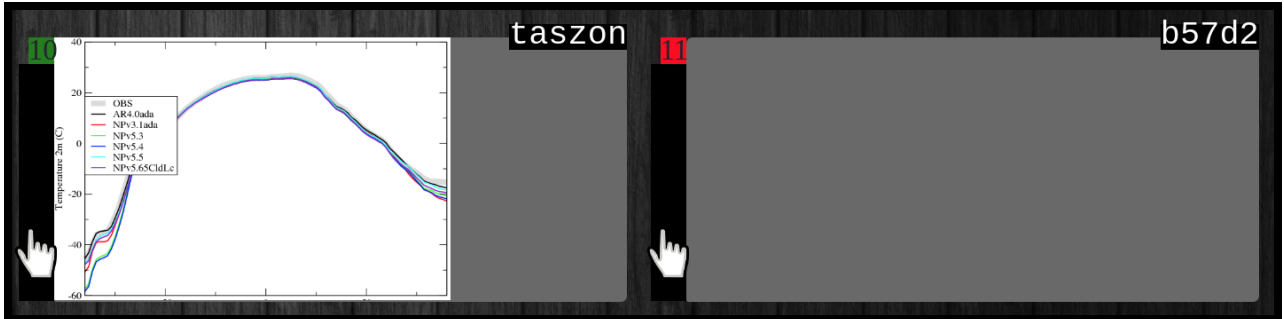
Info and state of tiles global menu



On/off buttons

Creates at the top of each tile hitbox a green square bearing its initial number on the grid. Clicking on it unloads the content of the tile (the square becomes red, clicking on it again reloads the content), which could allow for better performance.

Below: on the left, an “on” tile: green square, content loaded; on the right, an “off” tile: red square, content unloaded.



All off-nodes are not saved if save button is clicked in global menu.

Note: May conflict with the QR codes option, since their icons are both located at the bottom right corner of the tiles.



QR codes

Adds a QR code at the bottom right corner of each tile: when scanned with a tablet, the tablet will show the zoomed tile.

Note: May conflict with the individual zoom option, since their icons are both located at the bottom right corner of the tiles.

Tile Menu



The first icon opens the Tile menu on each tile, and gives access to its options.



Transparency

Clicking on this icon makes the related tile transparent, and will allow (in a next version) to overlay it on other tiles to enhance various phenomenons or to compare data.



Notes

Creates a post-it on the tile to write observations on its content. Post-its are saved when the user clicks on the “Save” icon of the Global menu.



Draw

Draw menu is explained on section below.



Column swap

Click on the icon on a tile of the first column to be swapped, this column will then appear with a green border. Then click on the icon on a tile of the second column, to swap the two selected set of tiles. Depending on the configuration of TiledViz, an animation may be shown.



Line swap

Click on the icon on a tile of the first line to be swapped, this line will then appear with a yellow border. Then click on the icon on a tile of the second line, to swap the two selected set of tiles. Depending on the configuration of TiledViz, an animation may be shown.

Draw Menu

Opens the draw menu and enables drawing on the tile, to enhance a phenomenon for example. This fonction is more suited to static images.



Choose colors

Opens a pop-up window with a color wheel, allowing the user to select a suitable color.



Choose line width

Enables to change the width of the drawing.



Erase the drawing

Erases the drawing and let the user start again.



Save the drawing

Prompts a window to save the drawing. Only the lines drawn on the tile will be saved, a script is then provided to combine the original image and the drawing (still in progress), maybe another smoother solution will be found later.



Transfer a draw on the tile

Rescale the draw to be printed on the tile in grid view mode.



Transfer a draw on all tiles

Report the draw on all tiles to simplify comparisons in grid view mode.

Cancel/Redo buttons



Cancel last movement

Clicking on this button cancels the last movement of tiles ; if the last user-made move involved several intermediate states, it will be necessary to click multiple times on the button to cancel this action.



Repeat last cancelled action

Like with the “Undo last action”, the user will have to repeat clicking on this icon if they wishes to redo a move composed of multiple individuals moves.

Up and Down buttons



Up arrow

Moves the grid one row up (to use when scrolling is not available, ie with WildOS).



Down arrow

Moves the grid one row down (to use when scrolling is not available, ie with WildOS).

Color theme

The Dark color theme corresponds to light text on a dark background, and is more suited to be displayed on Mandelbrot, whereas the Light mode is black on white, more comfortable on desktops. Those themes are applied for the option menu and the help page.



Opens the help page; to close it, click again on the interrogation mark.

Configuration

Default configuration

A default configuration is loaded by TiledViz from the `config_default.js` file. It contains the following parameters * Colors: for the different stickers (for filters and tags), and markers of state (selected tile, tile to be zoomed, ...) * Tile configuration: how to use the parameters contained in `tiles.js` * Behavioural constants: number of tiles, of columns, should they be fixed, spaces between tiles, ...

Custom configuration

In order to specify custom parameters and to enhance the user experience, it is possible to add in the Case folder a copy of `config_default.js` (to be named `config.js`). It is not mandatory to add in this custom file all the parameters from the default configuration file, but one has to be cautious of the syntax when writing those custom parameters.

In <code>config_default.js</code>	In <code>config.js</code>	Result in TiledViz
<code>param_1 = value_1</code>	<code>param_1 = value_2</code>	<code>param_1 = value_2</code>
<code>param_1 = value_1</code>	Nothing or no <code>config.js</code>	<code>param_1 = value_1</code>