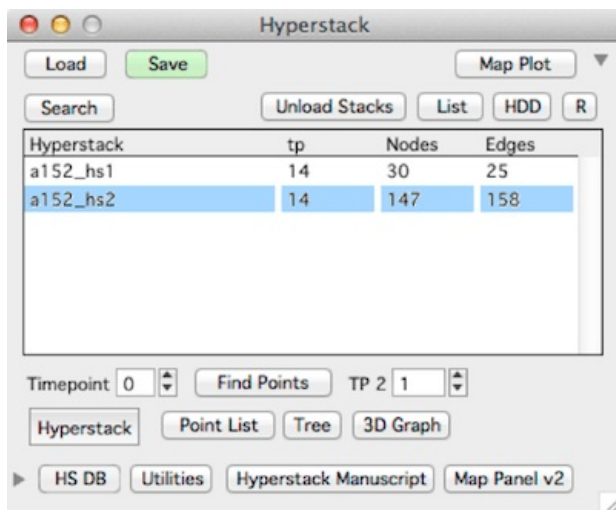


Hyperstacks are loaded, saved, and visualized through the Hyperstack panel.



**Tip:** If you lose the hyperstack panel, it can be reopened with menu Hyperstack -> Hyperstack Panel

## Loading a hyperstack

Press the 'Load' button and select the `_T.ibw` file corresponding to the hyperstack to be loaded.

If the hyperstack to load is `a153hs2` then load the file `'a153hs2_T.ibw'`

## Saving a hyperstack

- Select a hyperstack in the list
- Click the 'Save' button
- The hyperstack is saved in the same hard-drive folder it was opened from.

**important:** There is no 'Save As...'

## Opening a [stack](#) window for a single timepoint

1. select a hyperstack in the list
2. fill in the timepoint
3. click 'Stack' button.

**important:** Only one timepoint can be viewed at a time with the 'Stack' button. To view another timepoint, close the current timepoints stack window and open another timepoint.

## Opening [Find Points](#) to connect nodes and edges from one timepoint to the next

- Enter two sequential timepoints in 'Timepoint' and 'Timepoint 2'
- Click 'Find Points' button
- See [Find Points](#)

## [Search](#)

Open a panel to search nodes, tubes and slabs

## Unload stacks

- Unload raw data from selected hyperstack.

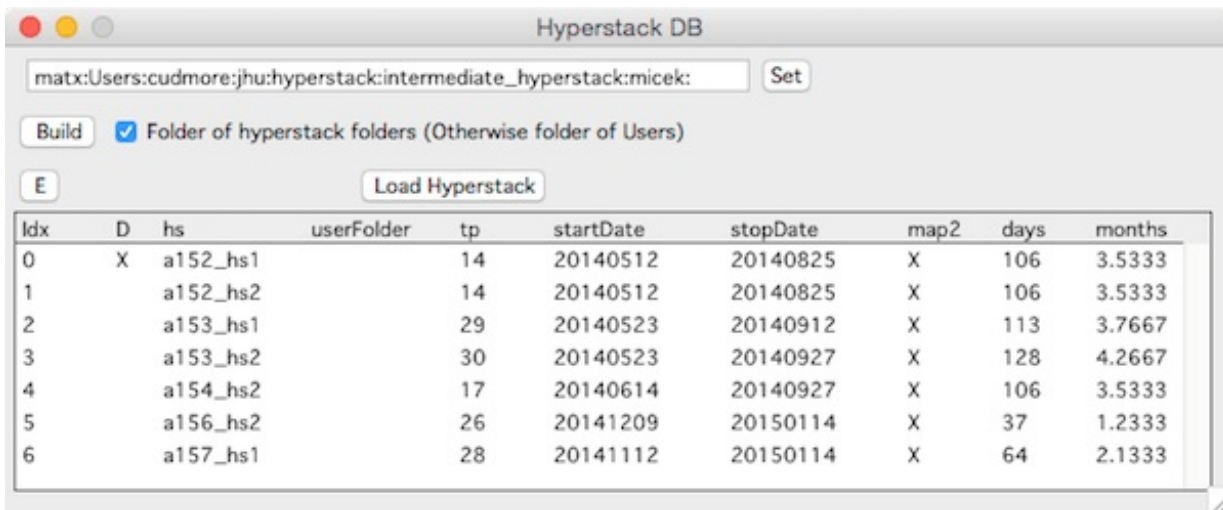
**Important:** Image stacks take up memory. If too many are loaded, Igor will run out of memory. To prevent this, unload unused stack images with 'Unload Stack'. The next time a stack is to be displayed it will automatically be loaded again.

## List

Open a List panel to display a list of all timepoints in a hyperstack

## Hyperstack database (HS DB)

Open a panel to display a database of all hyperstacks in a hard-drive folder



The screenshot shows a window titled "Hyperstack DB". At the top, there is a text field containing the path "matx:Users:cudmore:jhu:hyperstack:intermediate\_hyperstack:micek:" and a "Set" button. Below this is a "Build" button and a checked checkbox labeled "Folder of hyperstack folders (Otherwise folder of Users)". Underneath is a tab labeled "E" and a "Load Hyperstack" button. The main area contains a table with the following data:

Idx	D	hs	userFolder	tp	startDate	stopDate	map2	days	months
0	X	a152_hs1		14	20140512	20140825	X	106	3.5333
1		a152_hs2		14	20140512	20140825	X	106	3.5333
2		a153_hs1		29	20140523	20140912	X	113	3.7667
3		a153_hs2		30	20140523	20140927	X	128	4.2667
4		a154_hs2		17	20140614	20140927	X	106	3.5333
5		a156_hs2		26	20141209	20150114	X	37	1.2333
6		a157_hs1		28	20141112	20150114	X	64	2.1333

In the Hyperstack DB panel, 'set' a hard-drive folder and press the 'Build' button to generate a list of all hyperstacks in the selected hard-drive folder.

Double-click on a hyperstack in the list and it will load into the main Hyperstack panel.

There are two ways of generating the list

- Check 'Folder of hyperstack folder' expects a folder which itself contains hyperstack folders. This normally corresponds to a user folder such as 'cudmore' or 'jahnavi'.
- Do not check 'Folder of hyperstack folder' expects a folder of user folders.

The list of hyperstacks has the following information

- hs : Name of hyperstack
- userFolder : The user folder the hyperstack is in (if using 'Folder of users')
- tp : Number of timepoints
- startDate : The first date in the hyperstack
- stopDate : The last date in the hyperstack
- days : The number of days in the hyperstack (number of days between start and stop)
- months : The number of months in the hyperstack (stop date - start date)