OpenDSA Export Script for Google Spreadsheets

Make sure script setup:

You should be starting with the initial Google Sheet given to you setup already.

If not, make sure the script is added to the editor and the sheet is formated similar to the setup tutorial.

What each Column is for:

IdName - Will be the names for reference in json object.

Requirement: They should be valid json names and unique. This can not be left blank.

Hide - This is whether the script should add this entry when making the JSON and JS

Requirement: This does not need to be a checkbox however the cell values needs to contain the value of TRUE or FALSE. This is just text in all caps.

Type - This is what type this line in the sheet is. Some types will be used to output JS code only while others are used in both JSON and JS. What each type is used for is covered later.

Requirement: This does not need to be a dropdown, however it needs to be one of the following words: multiple, select, text, code, link_add, link_show, link_hide

Description - Will be the description text used for the frame questions. Can be left blank.

Note: JS only types have a different use of this column.

Question - Will be the question used in the frame or reference.

Requirement: They should not be left blank on types multiple and select

Answer - Will be the answer to the frame question. For multiple answers on multiple, each different correct answer should be separated by ;

**** A space in front/behind the answer can cause the answer to not match the choices****

Requirement: Use ; for multiple answers. They should not be left blank on types multiple and select.

Choices - Will be the choices for the questions used in the frame with a question. Each different choice should be separated with a ;

Requirement: Use ; between each choice.They should not be left blank on types multiple and select

What each Type is for:

Multiple

This is a multiple choice frame question that has only one correct answer. The spreadsheet layout is the default as above.

Select

This is a frame question where they will have checkboxes and check all correct answers. The spreadsheet layout is the default as above. Will have to use ; between answers in the Answer column if multiple answers. ****Note: Be careful of spaces between answers, true; false can cause mismatch between choice and answers (true;false would be the correct way to display).**

Text

This is a frame that just displays text with no question on it.

Code

This type is used to run js code between or on a frame. This will not be added to the JSON. A slightly different format is used as below.

Description	Question
Comments add before code.	Text taken to be added to js

Note: The texts typed into the question column should be js code and will cause your js to be wrong if errors exist in it.

link_add

This type is used to display a jff file in the frame with just a link to jff file. A uniqueName in idName column needed since that is used to hide/show the linked jff

IdName	Description	Question
unique name	Comments add before link.	Link to the location of the jiff file from top of opendsa

Example

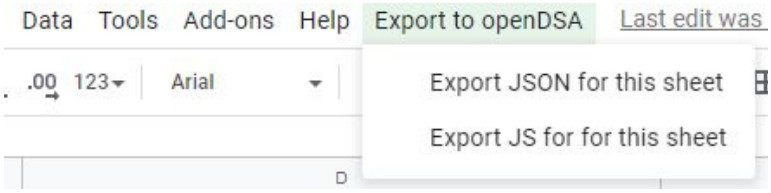
IdName	Type	Description	Question
binaryDFA	link_add	Add New DFA from link	../../../AV/VisFormalLang/FA/Machines/EvenBinaryDFACON.jff

link_show and link_hide

This is used to show/hide a linked jff file after it has been added with type link_add. The only requirement is to have the idName be the same as in link_add.

How to export the sheet to JS and JSON format to openDSA

To run the scripts go to the Export to openDSA from the main top menu.



Select either JS or JSON for the respective file. A few seconds later a window will pop with the text.

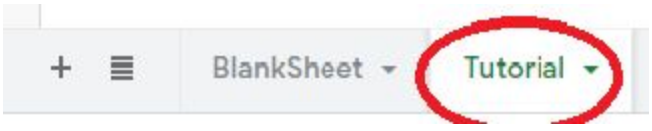
Note: If you use < or > characters you will need to use the raw output from cells I3 and K3. Read the next section for additional info.

Select all the text. Either by manually highlighting or clicking in the text box and using keyboard shortcut ctrl A to select all text.

Copy the text and paste into your JSON or JS file respectively.

Note: The files will need to be the same name as the spreadsheet.

If they do not match: rename the spreadsheet, rename the JS/JSON files or manually change JS code av_name to match.

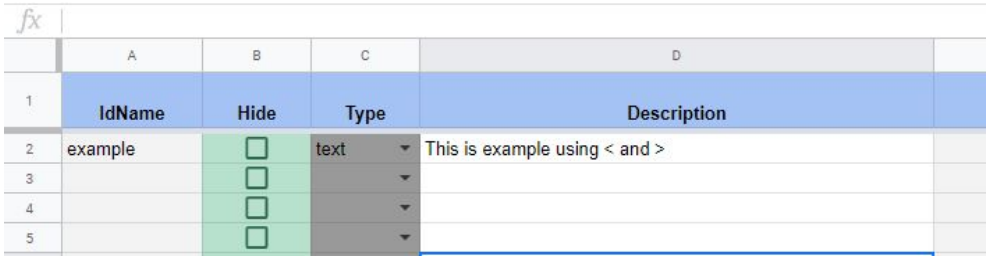


Autospecial Character conversions

The script will auto add escape characters for special characters for embedding text into JS and JSON. This means you can freely use “ and \ characters without having to escape characters.

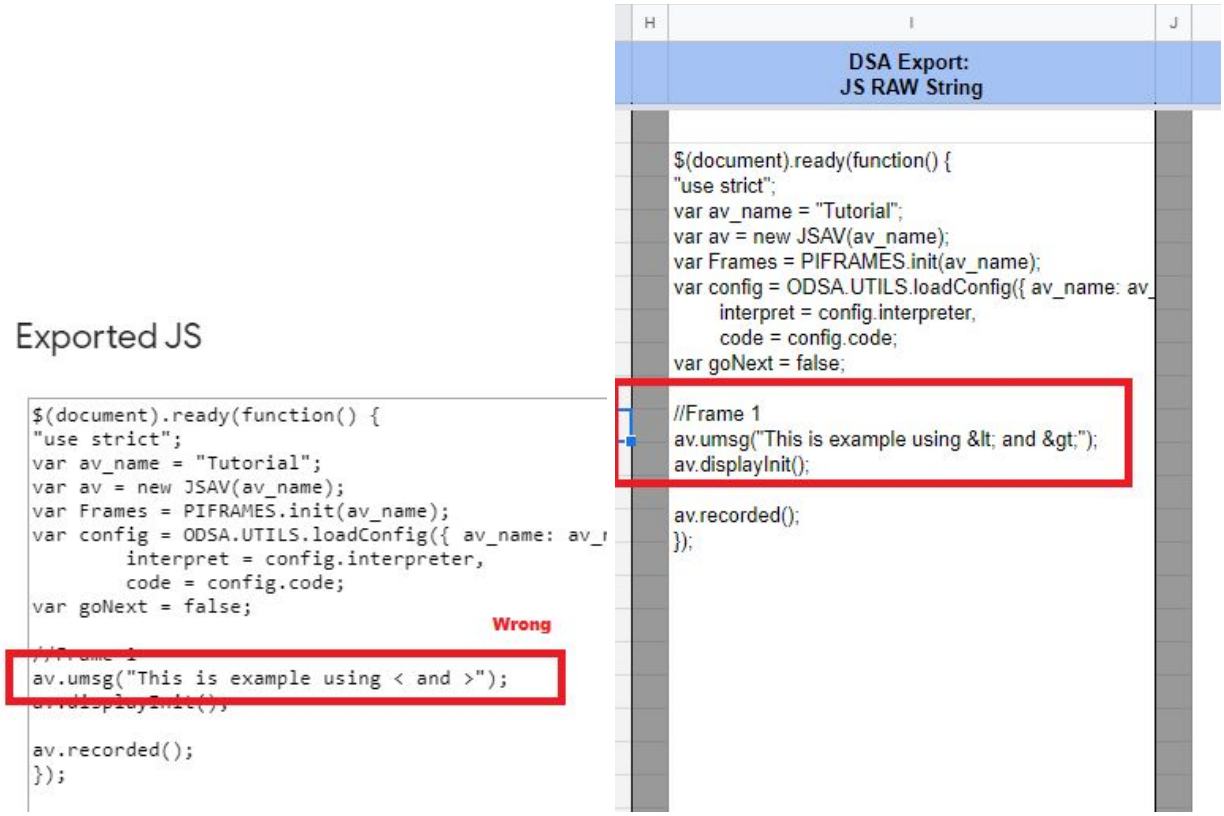
Example If you wanted to use LaTex command inside a question such as:
$(Q, \Sigma, \delta, Q_0, F)$ it would automatically be converted into $(Q, \\Sigma, \\delta, Q_0, F)$

***Imporant:** The script will auto convert < and > to lt; and gt; as needed for html as well. However, since the code popup is generated in html they automatically get converted back. Therefore if you use < or > in your text you will have to use the RAW string output to I3 and K3. If you do not use the output from these cells, you will get runtime errors when you load the frame.



	A	B	C	D
1	IdName	Hide	Type	Description
2	example	☐	text	This is example using < and >
3		☐		
4		☐		
5		☐		

Example above creates both of the below.



Above is **Wrong** code in html Popup

Above is the **Correct** in the I3 cell of sheet