Webcomponents Exercise

Write webcomponent that will display a simple table.

Webcomponent should consume attributes:

- columns mandatory attribute/minimum of 1 column - header columns separated with , sign
- data mandatory attribute - rows separated by ; sign and columns separated by , sign
- summary optional attribute - footer columns describing type of aggregation to use as described below:
  - count: count of unique items
  - avg: average of values
  - sum: sum of values
  - none: display hyphen sign
- fill-data-rules optional attribute- describing formulas separated by , sign for filling the data where number means column index
  - eg. 2=4/3 means Quantity=Total value/Unit Price and so on

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Dummy structure is prepared inside index.html.
Use and edit table-component.js as you please to fulfill goal of this exercise.
Try the write webcomponent that will be as generic and flexible as you can so displaying different data set would not be a problem.
Also it is recommended that you could change attributes on the fly and table should print new data.
Add attributes validation if necessary and print information that table cannot be displayed with reason (eg. columns attribute should have at least single column name).
Keep in mind that CustomElements are not supported in all browsers: CanIUseCheck.

Extra points for:

- In the footer of the table, fill missing cells with formulas passed as an attribute.
- Reading table data from CSV or JSON file instead of string.
  Instead of passing data as string data="a,b,c;d,e,f" try to read data from file and use relative path eg: data="./data.csv" or data="./data.json".
- On header of the table add listening on mouse click for sorting the data.

Table from current attributes should look like:

Title	Author	Quantity	Unit Price	Total value
Captain Tripps	S. King	10	9	x
American Nightmares	S. King	x	10	40
Soul Survivors	S. King	8	x	96
Hardcases	S. King	13	23	x
No Man's Land	S. King	x	25	50
The Night Has Come	S. King	30	x	900
The Sphinx	Graham Masterton	3	x	300
Charnel House	Graham Masterton	x	20	60
The Devils of D-Day	Graham Masterton	10	16	x
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-	x	x	-	x

Good luck!