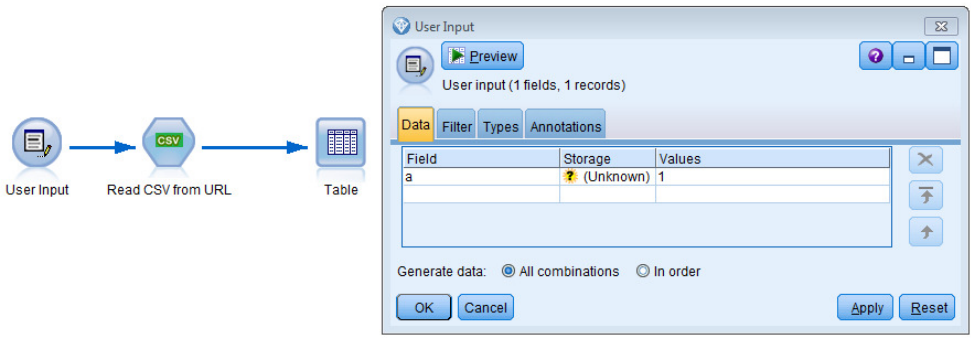
Example

This example will demonstrate how to read CSV data into SPSS Modeler from an URL. The sample data we will read for demonstration purposes only is provided by the University of California Irvine Machine Learning Repository (https://archive.ics.uci.edu/ml/datasets.html). For the example, we will read in the 'Wine' dataset.

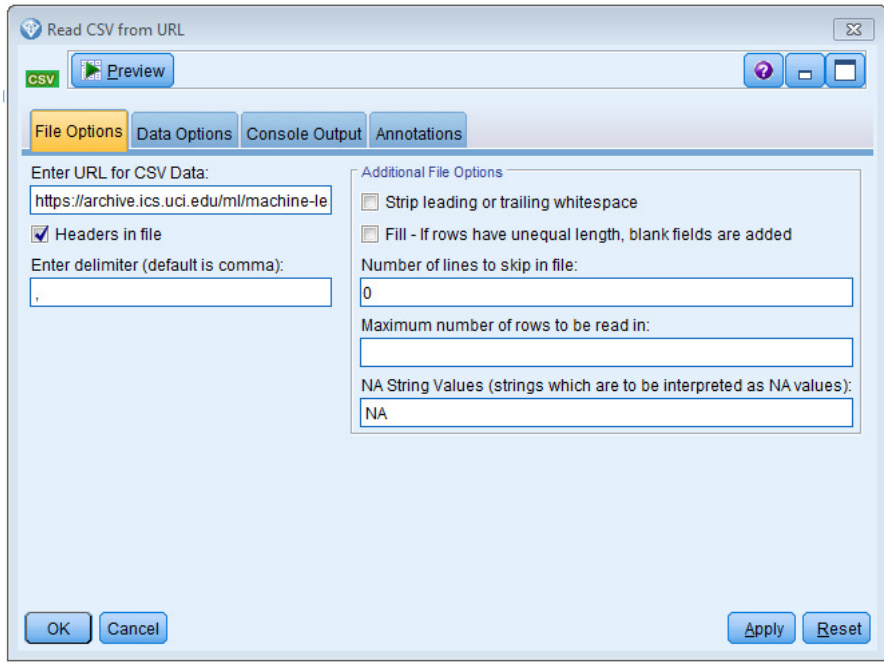
User Input

It is currently not possible to create proper 'source' nodes with R code. However, it is made possible if you trick the software a bit: you just have to put a user input node with fake fields before the Read CSV from URL node in order to make the stream start. In this example we put a user input with: Field a, Storage Unknown, Values 1 (see the screen shot below).

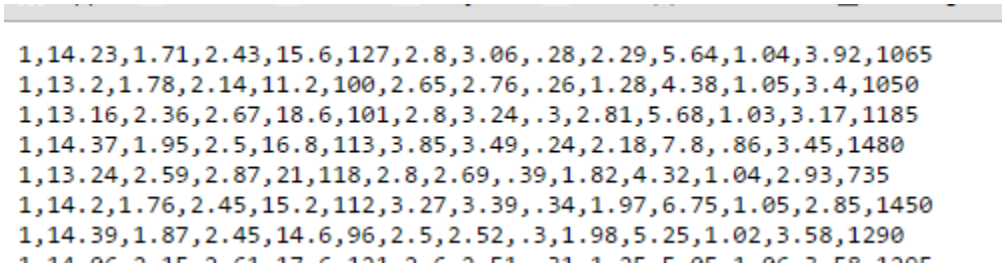


Double click the 'Read CSV from URL' node. Copy this URL and paste it into the 'Enter URL for CSV Data' field:

https://archive.ics.uci.edu/ml/machine-learning-databases/wine/wine.data



In order to determine how the rest of the dialog should be completed, we'll need to take a look at the raw data in the web page. See the screen shot below:



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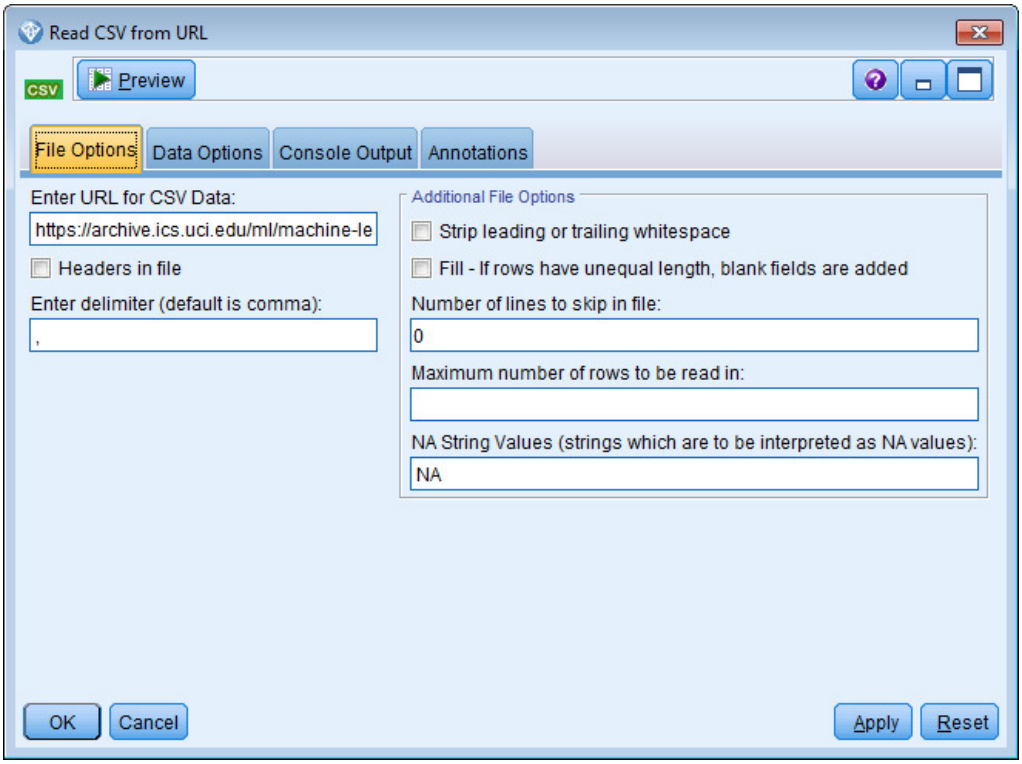
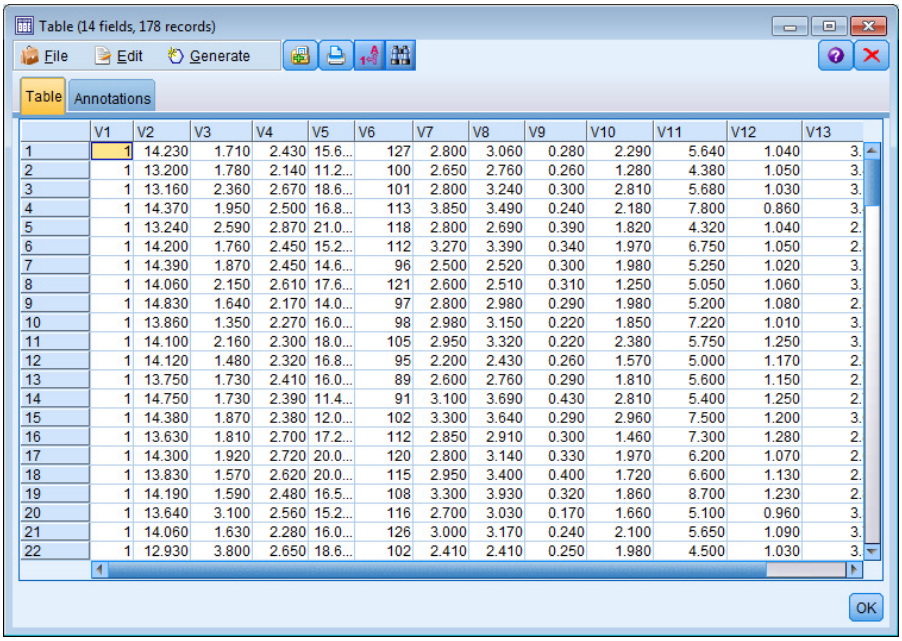
1,14.23,1.71,2.43,15.6,127,2.8,3.06,.28,2.29,5.64,1.04,3.92,1065
1,13.2,1.78,2.14,11.2,100,2.65,2.76,.26,1.28,4.38,1.05,3.4,1050
1,13.16,2.36,2.67,18.6,101,2.8,3.24,.3,2.81,5.68,1.03,3.17,1185
1,14.37,1.95,2.5,16.8,113,3.85,3.49,.24,2.18,7.8,.86,3.45,1480
1,13.24,2.59,2.87,21,118,2.8,2.69,.39,1.82,4.32,1.04,2.93,735
1,14.2,1.76,2.45,15.2,112,3.27,3.39,.34,1.97,6.75,1.05,2.85,1450
1,14.39,1.87,2.45,14.6,96,2.5,2.52,.3,1.98,5.25,1.02,3.58,1290
```

We see that this data has no header, meaning no column names are provided in the first row. This data is also separated with a comma, so we will want to use a comma for a delimiter. Other additional file options can be tweaked if desired, but knowing these two pieces of information will allow us to read the data in. The screenshot below shows the dialog setup for reading this data followed by a table output.



Results



	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13
1	1	14.230	1.710	2.430	15.6...	127	2.800	3.060	0.280	2.290	5.640	1.040	3.
2	1	13.200	1.780	2.140	11.2...	100	2.650	2.760	0.260	1.280	4.380	1.050	3.
3	1	13.160	2.360	2.670	18.6...	101	2.800	3.240	0.300	2.810	5.680	1.030	3.
4	1	14.370	1.950	2.500	16.8...	113	3.850	3.490	0.240	2.180	7.800	0.860	3.
5	1	13.240	2.590	2.870	21.0...	118	2.800	2.690	0.390	1.820	4.320	1.040	2.
6	1	14.200	1.760	2.450	15.2...	112	3.270	3.390	0.340	1.970	6.750	1.050	2.
7	1	14.390	1.870	2.450	14.6...	96	2.500	2.520	0.300	1.980	5.250	1.020	3.
8	1	14.060	2.150	2.610	17.6...	121	2.600	2.510	0.310	1.250	5.050	1.060	3.
9	1	14.830	1.640	2.170	14.0...	97	2.800	2.980	0.290	1.980	5.200	1.080	2.
10	1	13.860	1.350	2.270	16.0...	98	2.980	3.150	0.220	1.850	7.220	1.010	3.
11	1	14.100	2.160	2.300	18.0...	105	2.950	3.320	0.220	2.380	5.750	1.250	3.
12	1	14.120	1.480	2.320	16.8...	95	2.200	2.430	0.260	1.570	5.000	1.170	2.
13	1	13.750	1.730	2.410	16.0...	89	2.600	2.760	0.290	1.810	5.600	1.150	2.
14	1	14.750	1.730	2.390	11.4...	91	3.100	3.690	0.430	2.810	5.400	1.250	2.
15	1	14.380	1.870	2.380	12.0...	102	3.300	3.640	0.290	2.960	7.500	1.200	3.
16	1	13.630	1.810	2.700	17.2...	112	2.850	2.910	0.300	1.460	7.300	1.280	2.
17	1	14.300	1.920	2.720	20.0...	120	2.800	3.140	0.330	1.970	6.200	1.070	2.
18	1	13.830	1.570	2.620	20.0...	115	2.950	3.400	0.400	1.720	6.600	1.130	2.
19	1	14.190	1.590	2.480	16.5...	108	3.300	3.930	0.320	1.860	8.700	1.230	2.
20	1	13.640	3.100	2.560	15.2...	116	2.700	3.030	0.170	1.660	5.100	0.960	3.
21	1	14.060	1.630	2.280	16.0...	126	3.000	3.170	0.240	2.100	5.650	1.090	3.
22	1	12.930	3.800	2.650	18.6...	102	2.410	2.410	0.250	1.980	4.500	1.030	3.

Your data is now ready to use in SPSS Modeler with only one step!