


Overview

Overview

Alerts 

Reproduction

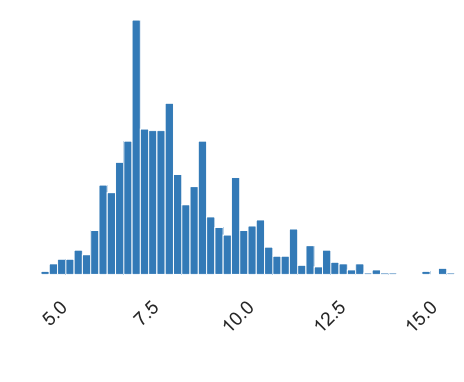
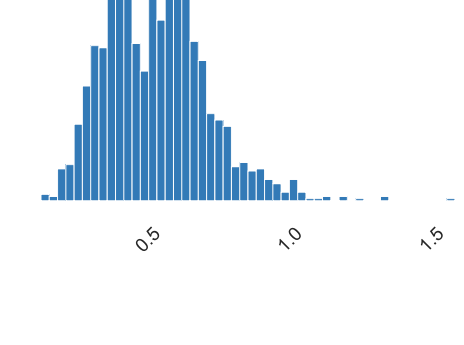
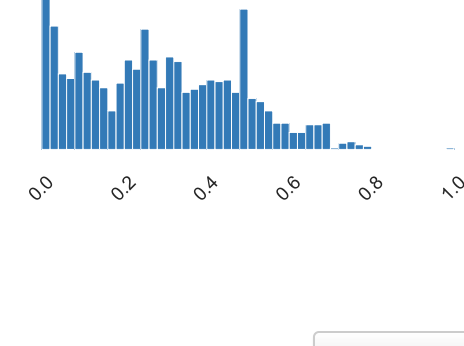
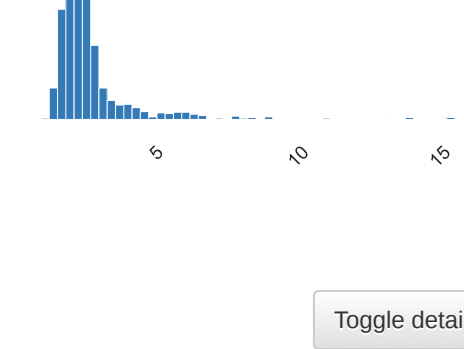
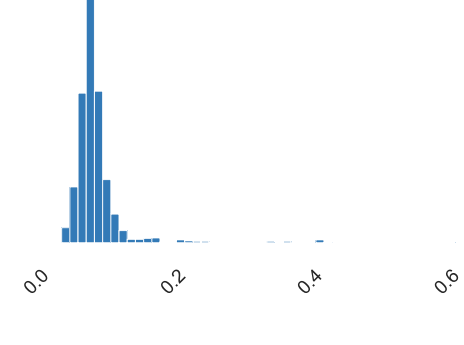
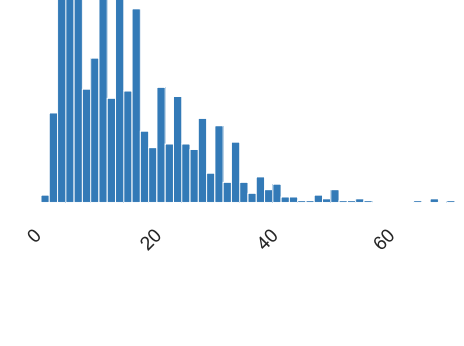
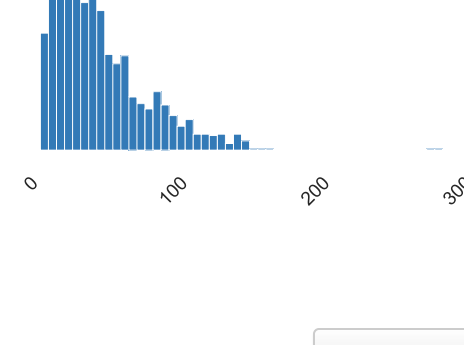
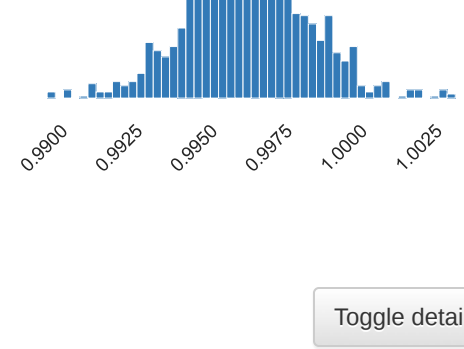
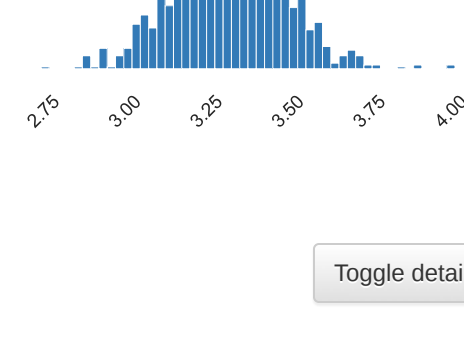
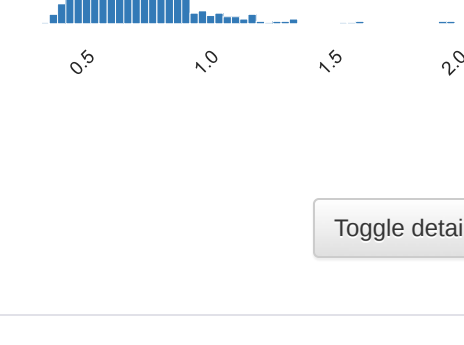
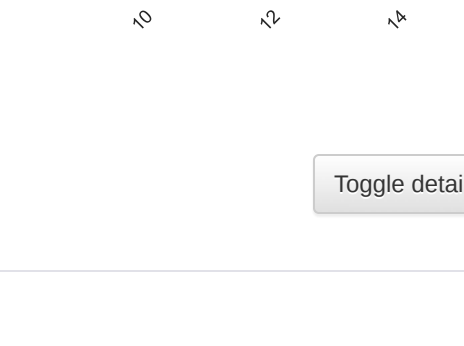
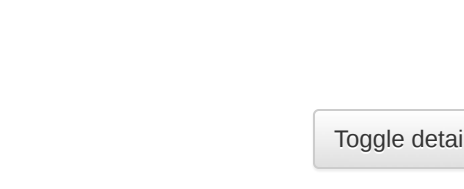
Dataset statistics

Number of variables	12
Number of observations	1599
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	220
Duplicate rows (%)	13.8%
Total size in memory	150.0 KiB
Average record size in memory	96.1 B

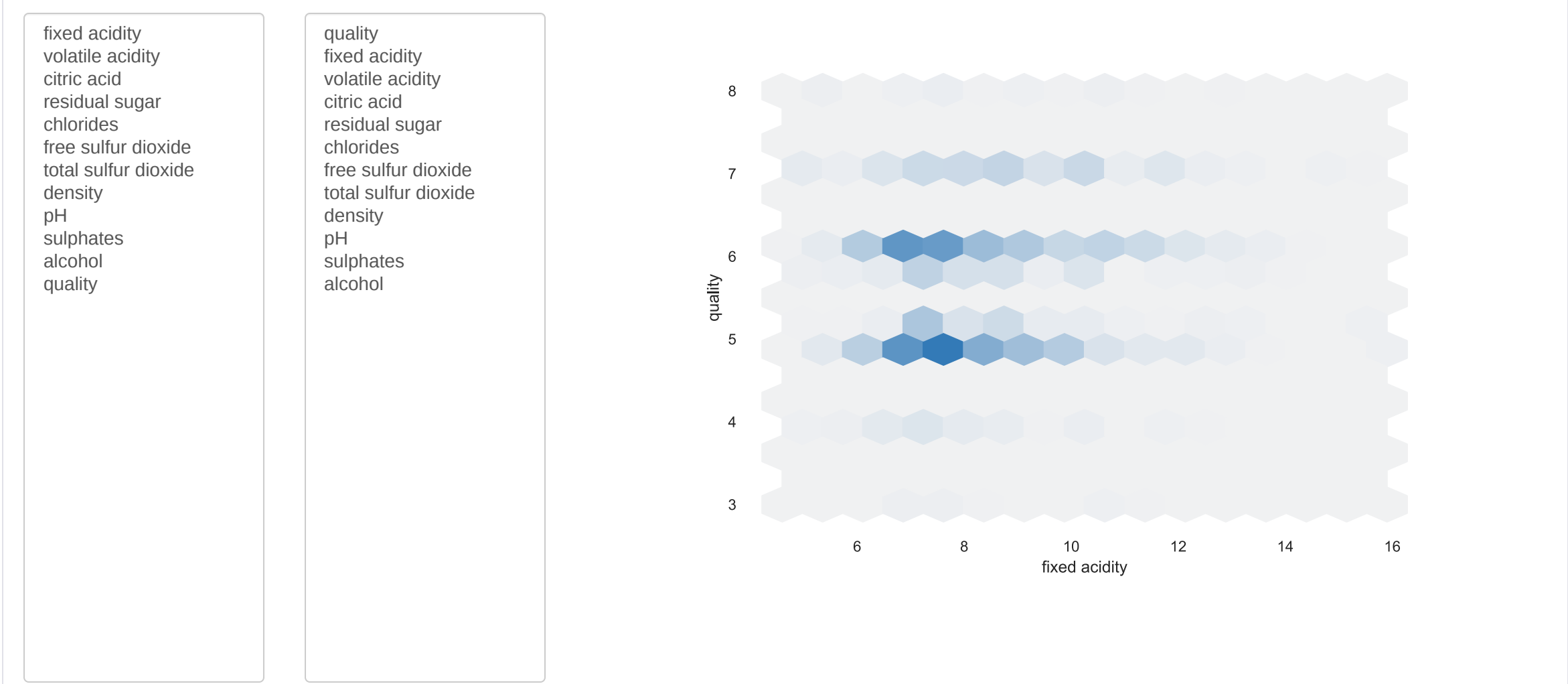
Variable types

Numeric	12
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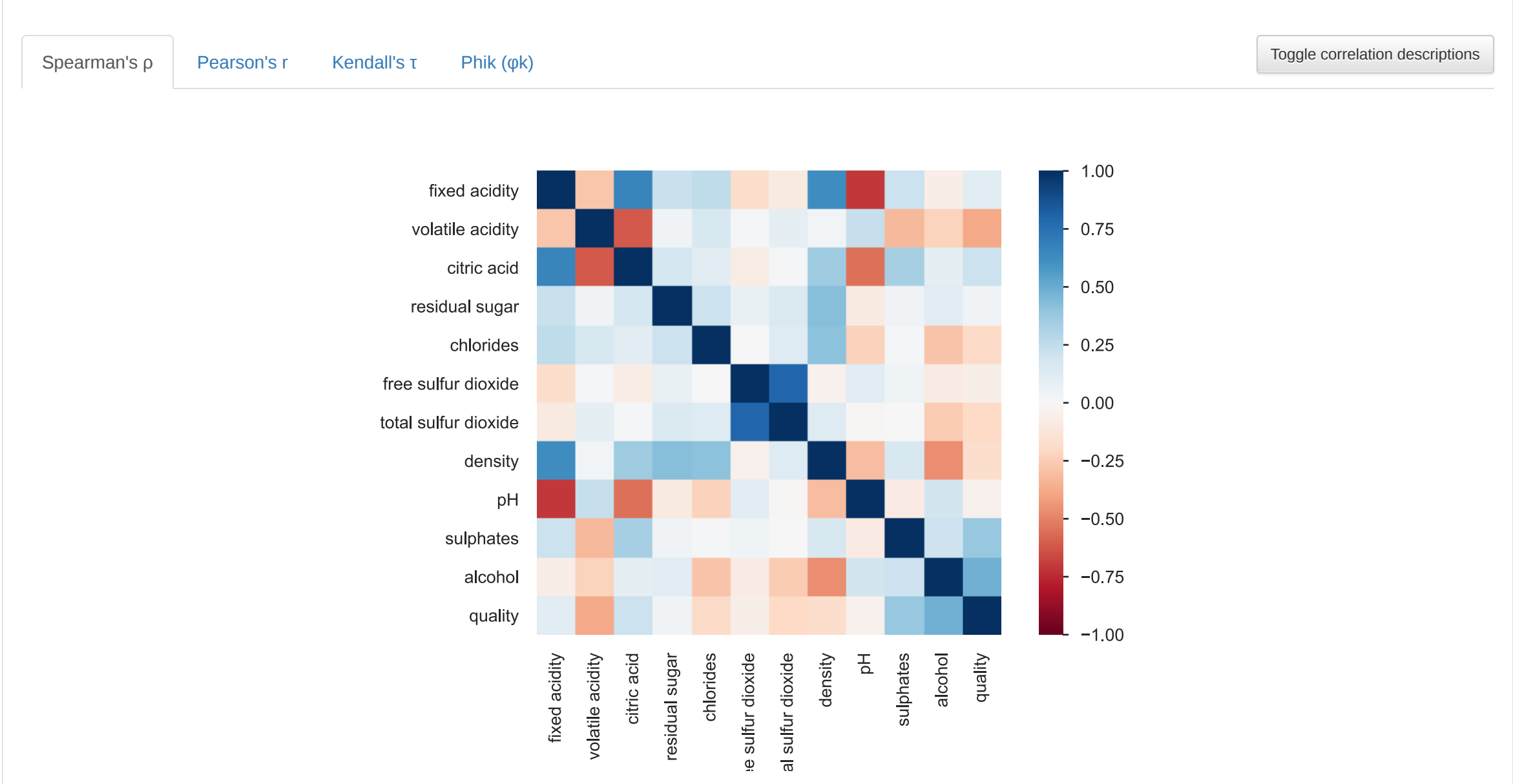
Variables

<div>fixed acidity</div> <div>Real number (R₆₀)</div> <div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div></div>	<div><div>Distinct</div><div>96</div></div> <div><div>Distinct (%)</div><div>6.0%</div></div> <div><div>Missing</div><div>0</div></div> <div><div>Missing (%)</div><div>0.0%</div></div> <div><div>Infinite</div><div>0</div></div> <div><div>Infinite (%)</div><div>0.0%</div></div> <div><div>Mean</div><div>8.319637273</div></div>	<div><div>Minimum</div><div>4.6</div></div> <div><div>Maximum</div><div>15.9</div></div> <div><div>Zeros</div><div>0</div></div> <div><div>Zeros (%)</div><div>0.0%</div></div> <div><div>Negative</div><div>0</div></div> <div><div>Negative (%)</div><div>0.0%</div></div> <div><div>Memory size</div><div>12.6 KiB</div></div>	<div></div>	<div>Toggle details</div>
<div>volatile acidity</div> <div>Real number (R₆₀)</div> <div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div></div>	<div><div>Distinct</div><div>143</div></div> <div><div>Distinct (%)</div><div>8.9%</div></div> <div><div>Missing</div><div>0</div></div> <div><div>Missing (%)</div><div>0.0%</div></div> <div><div>Infinite</div><div>0</div></div> <div><div>Infinite (%)</div><div>0.0%</div></div> <div><div>Mean</div><div>0.527805128</div></div>	<div><div>Minimum</div><div>0.12</div></div> <div><div>Maximum</div><div>1.58</div></div> <div><div>Zeros</div><div>0</div></div> <div><div>Zeros (%)</div><div>0.0%</div></div> <div><div>Negative</div><div>0</div></div> <div><div>Negative (%)</div><div>0.0%</div></div> <div><div>Memory size</div><div>12.6 KiB</div></div>	<div></div>	<div>Toggle details</div>
<div>citric acid</div> <div>Real number (R₆₀)</div> <div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div><div>ZEROS</div></div>	<div><div>Distinct</div><div>80</div></div> <div><div>Distinct (%)</div><div>5.0%</div></div> <div><div>Missing</div><div>0</div></div> <div><div>Missing (%)</div><div>0.0%</div></div> <div><div>Infinite</div><div>0</div></div> <div><div>Infinite (%)</div><div>0.0%</div></div> <div><div>Mean</div><div>0.2709756098</div></div>	<div><div>Minimum</div><div>0</div></div> <div><div>Maximum</div><div>1</div></div> <div><div>Zeros</div><div>132</div></div> <div><div>Zeros (%)</div><div>8.3%</div></div> <div><div>Negative</div><div>0</div></div> <div><div>Negative (%)</div><div>0.0%</div></div> <div><div>Memory size</div><div>12.6 KiB</div></div>	<div></div>	<div>Toggle details</div>
<div>residual sugar</div> <div>Real number (R₆₀)</div> <div><div>HIGH_CORRELATION</div></div>	<div><div>Distinct</div><div>91</div></div> <div><div>Distinct (%)</div><div>5.7%</div></div> <div><div>Missing</div><div>0</div></div> <div><div>Missing (%)</div><div>0.0%</div></div> <div><div>Infinite</div><div>0</div></div> <div><div>Infinite (%)</div><div>0.0%</div></div> <div><div>Mean</div><div>2.538805503</div></div>	<div><div>Minimum</div><div>0.9</div></div> <div><div>Maximum</div><div>15.5</div></div> <div><div>Zeros</div><div>0</div></div> <div><div>Zeros (%)</div><div>0.0%</div></div> <div><div>Negative</div><div>0</div></div> <div><div>Negative (%)</div><div>0.0%</div></div> <div><div>Memory size</div><div>12.6 KiB</div></div>	<div></div>	<div>Toggle details</div>
<div>chlorides</div> <div>Real number (R₆₀)</div> <div><div>HIGH_CORRELATION</div></div>	<div><div>Distinct</div><div>153</div></div> <div><div>Distinct (%)</div><div>9.6%</div></div> <div><div>Missing</div><div>0</div></div> <div><div>Missing (%)</div><div>0.0%</div></div> <div><div>Infinite</div><div>0</div></div> <div><div>Infinite (%)</div><div>0.0%</div></div> <div><div>Mean</div><div>0.08746654159</div></div>	<div><div>Minimum</div><div>0.012</div></div> <div><div>Maximum</div><div>0.611</div></div> <div><div>Zeros</div><div>0</div></div> <div><div>Zeros (%)</div><div>0.0%</div></div> <div><div>Negative</div><div>0</div></div> <div><div>Negative (%)</div><div>0.0%</div></div> <div><div>Memory size</div><div>12.6 KiB</div></div>	<div></div>	<div>Toggle details</div>
<div>free sulfur dioxide</div> <div>Real number (R₆₀)</div> <div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div></div>	<div><div>Distinct</div><div>60</div></div> <div><div>Distinct (%)</div><div>3.8%</div></div> <div><div>Missing</div><div>0</div></div> <div><div>Missing (%)</div><div>0.0%</div></div> <div><div>Infinite</div><div>0</div></div> <div><div>Infinite (%)</div><div>0.0%</div></div> <div><div>Mean</div><div>15.87492183</div></div>	<div><div>Minimum</div><div>1</div></div> <div><div>Maximum</div><div>72</div></div> <div><div>Zeros</div><div>0</div></div> <div><div>Zeros (%)</div><div>0.0%</div></div> <div><div>Negative</div><div>0</div></div> <div><div>Negative (%)</div><div>0.0%</div></div> <div><div>Memory size</div><div>12.6 KiB</div></div>	<div></div>	<div>Toggle details</div>
<div>total sulfur dioxide</div> <div>Real number (R₆₀)</div> <div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div></div>	<div><div>Distinct</div><div>144</div></div> <div><div>Distinct (%)</div><div>9.0%</div></div> <div><div>Missing</div><div>0</div></div> <div><div>Missing (%)</div><div>0.0%</div></div> <div><div>Infinite</div><div>0</div></div> <div><div>Infinite (%)</div><div>0.0%</div></div> <div><div>Mean</div><div>46.46779237</div></div>	<div><div>Minimum</div><div>6</div></div> <div><div>Maximum</div><div>289</div></div> <div><div>Zeros</div><div>0</div></div> <div><div>Zeros (%)</div><div>0.0%</div></div> <div><div>Negative</div><div>0</div></div> <div><div>Negative (%)</div><div>0.0%</div></div> <div><div>Memory size</div><div>12.6 KiB</div></div>	<div></div>	<div>Toggle details</div>
<div>density</div> <div>Real number (R₆₀)</div> <div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div></div>	<div><div>Distinct</div><div>436</div></div> <div><div>Distinct (%)</div><div>27.3%</div></div> <div><div>Missing</div><div>0</div></div> <div><div>Missing (%)</div><div>0.0%</div></div> <div><div>Infinite</div><div>0</div></div> <div><div>Infinite (%)</div><div>0.0%</div></div> <div><div>Mean</div><div>0.9967466792</div></div>	<div><div>Minimum</div><div>0.99007</div></div> <div><div>Maximum</div><div>1.00369</div></div> <div><div>Zeros</div><div>0</div></div> <div><div>Zeros (%)</div><div>0.0%</div></div> <div><div>Negative</div><div>0</div></div> <div><div>Negative (%)</div><div>0.0%</div></div> <div><div>Memory size</div><div>12.6 KiB</div></div>	<div></div>	<div>Toggle details</div>
<div>pH</div> <div>Real number (R₆₀)</div> <div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div><div>HIGH_CORRELATION</div></div>	<div><div>Distinct</div><div>89</div></div> <div><div>Distinct (%)</div><div>5.6%</div></div> <div><div>Missing</div><div>0</div></div> <div><div>Missing (%)</div><div>0.0%</div></div> <div><div>Infinite</div><div>0</div></div> <div><div>Infinite (%)</div><div>0.0%</div></div> <div><div>Mean</div><div>3.311113196</div></div>	<div><div>Minimum</div><div>2.74</div></div> <div><div>Maximum</div><div>4.01</div></div> <div><div>Zeros</div><div>0</div></div> <div><div>Zeros (%)</div><div>0.0%</div></div> <div><div>Negative</div><div>0</div></div> <div><div>Negative (%)</div><div>0.0%</div></div> <div><div>Memory size</div><div>12.6 KiB</div></div>	<div></div>	<div>Toggle details</div>
<div>sulphates</div> <div>Real number (R₆₀)</div> <div><div>HIGH_CORRELATION</div></div>	<div><div>Distinct</div><div>96</div></div> <div><div>Distinct (%)</div><div>6.0%</div></div> <div><div>Missing</div><div>0</div></div> <div><div>Missing (%)</div><div>0.0%</div></div> <div><div>Infinite</div><div>0</div></div> <div><div>Infinite (%)</div><div>0.0%</div></div> <div><div>Mean</div><div>0.658148843</div></div>	<div><div>Minimum</div><div>0.33</div></div> <div><div>Maximum</div><div>2</div></div> <div><div>Zeros</div><div>0</div></div> <div><div>Zeros (%)</div><div>0.0%</div></div> <div><div>Negative</div><div>0</div></div> <div><div>Negative (%)</div><div>0.0%</div></div> <div><div>Memory size</div><div>12.6 KiB</div></div>	<div></div>	<div>Toggle details</div>
<div>alcohol</div> <div>Real number (R₆₀)</div> <div><div>HIGH_CORRELATION</div></div>	<div><div>Distinct</div><div>65</div></div> <div><div>Distinct (%)</div><div>4.1%</div></div> <div><div>Missing</div><div>0</div></div> <div><div>Missing (%)</div><div>0.0%</div></div> <div><div>Infinite</div><div>0</div></div> <div><div>Infinite (%)</div><div>0.0%</div></div> <div><div>Mean</div><div>10.42298311</div></div>	<div><div>Minimum</div><div>8.4</div></div> <div><div>Maximum</div><div>14.9</div></div> <div><div>Zeros</div><div>0</div></div> <div><div>Zeros (%)</div><div>0.0%</div></div> <div><div>Negative</div><div>0</div></div> <div><div>Negative (%)</div><div>0.0%</div></div> <div><div>Memory size</div><div>12.6 KiB</div></div>	<div></div>	<div>Toggle details</div>
<div>quality</div> <div>Real number (R₆₀)</div> <div></div>	<div><div>Distinct</div><div>6</div></div> <div><div>Distinct (%)</div><div>0.4%</div></div> <div><div>Missing</div><div>0</div></div> <div><div>Missing (%)</div><div>0.0%</div></div> <div><div>Infinite</div><div>0</div></div> <div><div>Infinite (%)</div><div>0.0%</div></div> <div><div>Mean</div><div>5.636022514</div></div>	<div><div>Minimum</div><div>3</div></div> <div><div>Maximum</div><div>8</div></div> <div><div>Zeros</div><div>0</div></div> <div><div>Zeros (%)</div><div>0.0%</div></div> <div><div>Negative</div><div>0</div></div> <div><div>Negative (%)</div><div>0.0%</div></div> <div><div>Memory size</div><div>12.6 KiB</div></div>	<div></div>	<div>Toggle details</div>

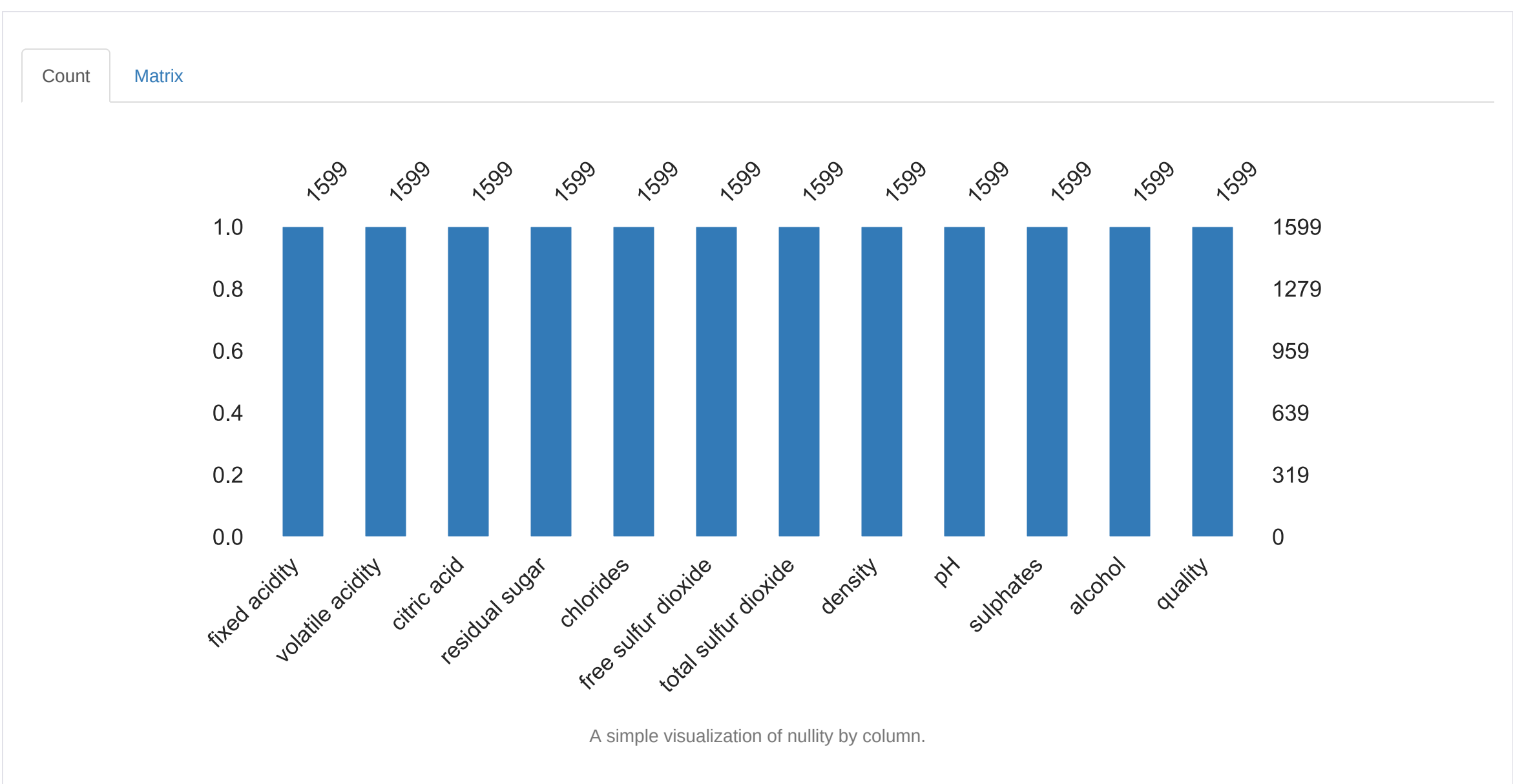
Interactions



Correlations



Missing values



Sample

First rows

	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	pH	sulphates	alcohol	quality
0	7.4	0.70	0.00	1.9	0.076	11.0	34.0	0.9978	3.51	0.56	9.4	5
1	7.8	0.88	0.00	2.6	0.098	25.0	67.0	0.9968	3.20	0.68	9.8	5
2	7.8	0.76	0.04	2.3	0.092	15.0	54.0	0.9970	3.26	0.65	9.8	5
3	11.2	0.28	0.56	1.9	0.075	17.0	60.0	0.9980	3.16	0.58	9.8	6
4	7.4	0.70	0.00	1.9	0.076	11.0	34.0	0.9978	3.51	0.56	9.4	5
5	7.4	0.66	0.00	1.8	0.075	13.0	40.0	0.9978	3.51	0.56	9.4	5
6	7.9	0.60	0.06	1.6	0.069	15.0	59.0	0.9964	3.30	0.46	9.4	5
7	7.3	0.65	0.00	1.2	0.065	15.0	21.0	0.9946	3.39	0.47	10.0	7
8	7.8	0.58	0.02	2.0	0.073	9.0	18.0	0.9968	3.36	0.57	9.5	7
9	7.5	0.50	0.36	6.1	0.071	17.0	102.0	0.9978	3.35	0.80	10.5	5

Last rows

	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	pH	sulphates	alcohol	quali
1589	6.6	0.725	0.20	7.8	0.073	29.0	79.0	0.99770	3.29	0.54	9.2	5
1590	6.3	0.550	0.15	1.8	0.077	26.0	35.0	0.99314	3.32	0.82	11.6	6
1591	5.4	0.740	0.09	1.7	0.089	16.0	26.0	0.99402	3.67	0.56	11.6	6
1592	6.3	0.510	0.13	2.3	0.076	29.0	40.0	0.99574	3.42	0.75	11.0	6
1593	6.8	0.620	0.08	1.9	0.068	28.0	38.0	0.99651	3.42	0.82	9.5	6
1594	6.2	0.600	0.08	2.0	0.090	32.0	44.0	0.99490	3.45	0.58	10.5	5
1595	5.9	0.550	0.10	2.2	0.062	39.0	51.0	0.99512	3.52	0.76	11.2	6
1596	6.3	0.510	0.13	2.3	0.076	29.0	40.0	0.99574	3.42	0.75	11.0	6
1597	5.9	0.645	0.12	2.0	0.075	32.0	44.0	0.99547	3.57	0.71	10.2	5
1598	6.0	0.310	0.47	3.6	0.067	18.0	42.0	0.99549	3.39	0.66	11.0	6

Duplicate rows

Duplicate rows

Most frequently occurring												
	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	pH	sulphates	alcohol	quality
22	6.7	0.460	0.24	1.7	0.077	18.0	34.0	0.99480	3.39	0.60	10.6	6
52	7.2	0.360	0.46	2.1	0.074	24.0	44.0	0.99534	3.40	0.85	11.0	7
63	7.2	0.695	0.13	2.0	0.076	12.0	20.0	0.99546	3.29	0.54	10.1	5
81	7.5	0.510	0.02	1.7	0.084	13.0	31.0	0.99538	3.36	0.54	10.5	6
5	6.0	0.500	0.00	1.4	0.057	15.0	26.0	0.99448	3.36	0.45	9.5	5
12	6.4	0.640	0.21	1.8	0.081	14.0	31.0	0.99689	3.59	0.66	9.8	5
39	7.0	0.650	0.02	2.1	0.066	8.0	25.0	0.99720	3.47	0.67	9.5	6
40	7.0	0.690	0.07	2.5	0.091	15.0	21.0	0.99572	3.38	0.60	11.3	6
60	7.2	0.630	0.00	1.9	0.097	14.0	38.0	0.99675	3.37	0.58	9.0	6
104	7.8	0.600	0.26	2.0	0.080	31.0	131.0	0.99622	3.21	0.52	9.9	5