# Overview

Brought to you by YData (https://ydata.ai/? utm\_source=opensource&utm\_medium=ydataprofiling&utm\_campaign=report)

Dataset statistics	
Number of variables	8
Number of observations	887
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	152.6 KiB
Average record size in memory	176.2 B

### Variable types

Categorical	3
Text	1
Numeric	4

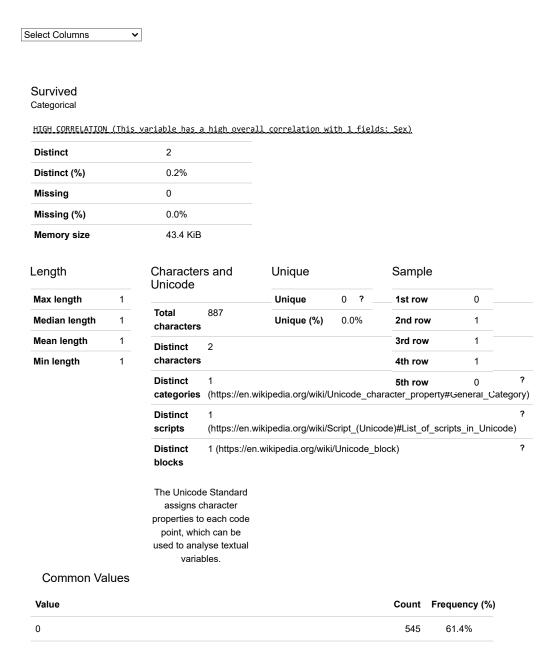
#### **Alerts**

Sex is highly overall correlated with Survived	High correlation
Survived is highly overall correlated with Sex	High correlation
Name has unique values	Unique
Siblings/Spouses Aboard has 604 (68.1%) zeros	Zeros
Parents/Children Aboard has 674 (76.0%) zeros	Zeros
Fare has 15 (1.7%) zeros	Zeros

### Reproduction

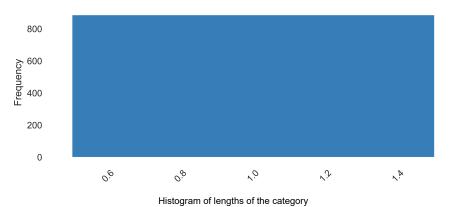
Analysis started	2024-09-08 22:37:15.984208
Analysis finished	2024-09-08 22:37:18.291705
Duration	2.31 seconds
Software version	ydata-profiling vv4.10.0 (https://github.com/ydataai/ydata-profiling)
Download	config.json (data:text/plain;charset=utf-

## **Variables**



Value	Count	Frequency (%)
1	342	38.6%





## Common Values (Plot)





Value	Count	Frequency (%)
0	545	61.4%
1	342	38.6%

## Most occurring characters

Value	Count	Frequency (%)
0	545	61.4%

Value	Count	Frequency (%)
1	342	38.6%

## Most occurring categories

Value	Count	Frequency (%)
(unknown)	887	100.0%

## Most frequent character per category

(unknown)

Value	Count	Frequency (%)
0	545	61.4%
1	342	38.6%

## Most occurring scripts

Value	Count	Frequency (%)
(unknown)	887	100.0%

## Most frequent character per script

(unknown)

Value	Count	Frequency (%)
0	545	61.4%
1	342	38.6%

## Most occurring blocks

Value	Count	Frequency (%)
(unknown)	887	100.0%

## Most frequent character per block

Value	Count	Frequency (%)
0	545	61.4%
1	342	38.6%

## Pclass Categorical

Distinct	3
Distinct (%)	0.3%
Missing	0
Missing (%)	0.0%
Memory size	43.4 KiB

Length	
Max length	1
Median length	1
Mean length	1
Min length	1

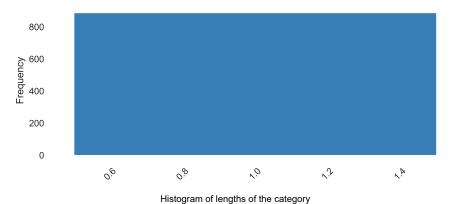
Character Unicode	s and	Unique			Sample		
		Unique	0	?	1st row	3	
Total characters	887	Unique (%)	0.0	%	2nd row	1	
Distinct	3				3rd row	3	
characters					4th row	1	
Distinct	1				5th row	3	?
categories	(https://en.wik	ipedia.org/wiki/U	Jnicod	e_chara	cter_property#0	enerai_Ca	tegory)
Distinct	1						?
scripts	(https://en.wik	ipedia.org/wiki/S	Script_	(Unicod	e)#List_of_scrip	ts_in_Unic	ode)
Distinct blocks	1 (https://en.w	vikipedia.org/wiki	i/Unico	ode_bloo	ck)		?

The Unicode Standard assigns character properties to each code point, which can be used to analyse textual variables.

### Common Values

Value	Count	Frequency (%)
3	487	54.9%
1	216	24.4%
2	184	20.7%

Length



Common Values (Plot)





Value	Count	Frequency (%)
3	487	54.9%
1	216	24.4%
2	184	20.7%

## Most occurring characters

Value	Count	Frequency (%)
3	487	54.9%
1	216	24.4%

Value	Count	Frequency (%)
2	184	20.7%

## Most occurring categories

Value	Count	Frequency (%)
(unknown)	887	100.0%

## Most frequent character per category

(unknown)

Value	Count	Frequency (%)
3	487	54.9%
1	216	24.4%
2	184	20.7%

## Most occurring scripts

Value	Count	Frequency (%)
(unknown)	887	100.0%

## Most frequent character per script

(unknown)

Value	Count	Frequency (%)
3	487	54.9%
1	216	24.4%
2	184	20.7%

Most occurring blocks

Value	Count	Frequency (%)
(unknown)	887	100.0%

## Most frequent character per block

Value	Count	Frequency (%)
3	487	54.9%
1	216	24.4%
2	184	20.7%

#### Name

Text

UNIQUE

Distinct	887
Distinct (%)	100.0%
Missing	0
Missing (%)	0.0%
Memory size	64.5 KiB



Length	
Max length	81
Median length	50
Mean length	25.322435
Min length	11

Character Unicode	s and	Unique	Unique		Sample	
Officode		Unique	887 ?	1st	Mr. Owen Harris	
Total characters	22461	Unique (%)	100.0%	row	Braund	
Distinct characters	58				2nd Mrs. John row Bradley (Florence	
Distinct categories	1 (https://en.wi	ikipedia.org/wiki/	Unicode_chai	ac	Briggs Thayer) Cumings	? ategory
Distinct scripts	1 (https://en.wi	ikipedia.org/wiki/	Script_(Unico	3rd row	Miss. Laina Heikkinen	?
Distinct blocks	1 (https://en.	wikipedia.org/wil	ki/Unicode_blo	4th row	Mrs. Jacques Heath (Lily May Peel) Futrelle	?
The Unicode				5th row	Mr. William Henry Allen	

assigns character properties to each code point, which can be used to analyse textual variables.

Value	Count	Frequency (%		
mr	513	14.5%		
miss	182	5.1%		
mrs	125	3.5%		
william	62	1.8%		
john	44	1.2%		
master	40	1.1%		



Value	Count	Frequency (%)
henry	33	0.9%
james	24	0.7%
charles	23	0.7%
george	22	0.6%
Other values	2468	69.8%

## Most occurring characters

Value	Count	Frequency (%)
	2649	11.8%
r	1914	8.5%
е	1654	7.4%
a	1618	7.2%
i	1287	5.7%
s	1281	5.7%
n	1273	5.7%
М	1105	4.9%
1	1039	4.6%
0	986	4.4%
Other values (48)	7655	34.1%

## Most occurring categories

Value	Count	Frequency (%)
(unknown)	22461	100.0%

## Most frequent character per category

Value	Count	Frequency (%)
	2649	11.8%
r	1914	8.5%
е	1654	7.4%
a	1618	7.2%
i	1287	5.7%
s	1281	5.7%
n	1273	5.7%
М	1105	4.9%
I	1039	4.6%
0	986	4.4%
Other values (48)	7655	34.1%

## Most occurring scripts

Value	Count	Frequency (%)
(unknown)	22461	100.0%

## Most frequent character per script

Value	Count	Frequency (%)
	2649	11.8%
r	1914	8.5%
е	1654	7.4%
a	1618	7.2%
i	1287	5.7%
s	1281	5.7%
n	1273	5.7%
М	1105	4.9%

Value	Count	Frequency (%)
I	1039	4.6%
0	986	4.4%
Other values (48)	7655	34.1%

## Most occurring blocks

Value	Count	Frequency (%)
(unknown)	22461	100.0%

## Most frequent character per block

Value	Count	Frequency (%)
	2649	11.8%
r	1914	8.5%
е	1654	7.4%
a	1618	7.2%
i	1287	5.7%
s	1281	5.7%
n	1273	5.7%
M	1105	4.9%
1	1039	4.6%
0	986	4.4%
Other values (48)	7655	34.1%

## Sex

Categorical

HIGH CORRELATION (This variable has a high overall correlation with 1 fields: Survived)

Distinct	2
Distinct (%)	0.2%
Missing	0
Missing (%)	0.0%
Memory size	46.7 KiB

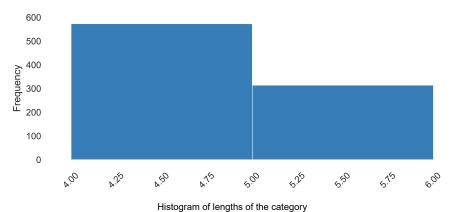
1st row		
	male	
2nd row	v female	
3rd row	female	
4th row	female	
5th row	male perty#General	? Category)
e)#List_of	f_scripts_in_Ur	?
k)		?
k)		

The Unicode Standard assigns character properties to each code point, which can be used to analyse textual variables.

### Common Values

Value	Count	Frequency (%)
male	573	64.6%
female	314	35.4%

Length



Common Values (Plot)





Value	Count	Frequency (%)
male	573	64.6%
female	314	35.4%

## Most occurring characters

m 887 21.2% a 887 21.2%	Value	Count	Frequency (%)
a 887 21.2%	е	1201	28.8%
	m	887	21.2%
007 04 00/	а	887	21.2%
1 887 21.2%		887	21.2%

Value	Count	Frequency (%)
f	314	7.5%

## Most occurring categories

Value	Count	Frequency (%)
(unknown)	4176	100.0%

## Most frequent character per category

(unknown)

Value	Count	Frequency (%)
е	1201	28.8%
m	887	21.2%
a	887	21.2%
I	887	21.2%
f	314	7.5%

## Most occurring scripts

٧	'alue	Count	Frequency (%)
(1	unknown)	4176	100.0%

## Most frequent character per script

Value	Count	Frequency (%)
е	1201	28.8%
m	887	21.2%
а	887	21.2%
I	887	21.2%

Value	Count	Frequency (%)
f	314	7.5%

## Most occurring blocks

Value	Count	Frequency (%)
(unknown)	4176	100.0%

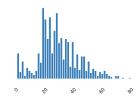
## Most frequent character per block

Value	Count	Frequency (%)
е	1201	28.8%
m	887	21.2%
a	887	21.2%
1	887	21.2%
f	314	7.5%

Age Real number (ℝ)

Distinct	89
Distinct (%)	10.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	29.471443

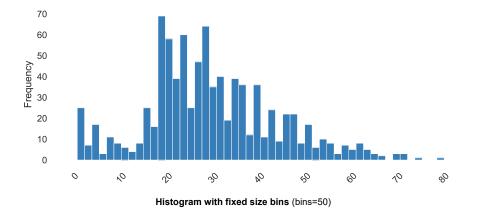
Minimum	0.42
Maximum	80
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	7.1 KiB



## Quantile statistics

Minimum	0.42
5-th percentile	5
Q1	20.25
median	28
Q3	38
95-th percentile	55.85
Maximum	80
Range	79.58
Interquartile range (IQR)	17.75

Standard deviation	14.121908
Coefficient of variation (CV)	0.47917261
Kurtosis	0.29255909
Mean	29.471443
Median Absolute Deviation (MAD)	8
Skewness	0.44718857
Sum	26141.17
Variance	199.4283
Monotonicity	Not monotonic



Value	Count	Frequency (%)
22	39	4.4%
28	37	4.2%
18	36	4.1%
24	34	3.8%
21	34	3.8%
30	33	3.7%
19	33	3.7%
27	26	2.9%
23	25	2.8%
29	25	2.8%
Other values (79)	565	63.7%

Value	Count	Frequency (%)
0.42	1	0.1%
0.67	1	0.1%
0.75	2	0.2%
0.83	2	0.2%
0.92	1	0.1%
1	7	0.8%
2	11	1.2%
3	7	0.8%
4	11	1.2%
5	6	0.7%

Value	Count	Frequency (%)
80	1	0.1%
74	1	0.1%
71	2	0.2%

Value	Count	Frequency (%)
70.5	1	0.1%
70	2	0.2%
69	1	0.1%
66	2	0.2%
65	3	0.3%
64	3	0.3%
63	2	0.2%

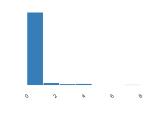
## Siblings/Spouses Aboard

Real number (R)

#### ZEROS

Distinct	7
Distinct (%)	0.8%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.5253664

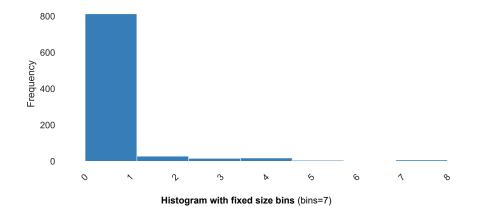
Minimum	0
Maximum	8
Zeros	604
Zeros (%)	68.1%
Negative	0
Negative (%)	0.0%
Memory size	7.1 KiB



### Quantile statistics

Minimum	0
5-th percentile	0
Q1	0
median	0
Q3	1
95-th percentile	3
Maximum	8
Range	8
Interquartile range (IQR)	1

Standard deviation	1.1046686
Coefficient of variation (CV)	2.1026631
Kurtosis	17.797537
Mean	0.5253664
Median Absolute Deviation (MAD)	0
Skewness	3.6867598
Sum	466
Variance	1.2202926
Monotonicity	Not monotonic



Value	Count	Frequency (%)
0	604	68.1%
1	209	23.6%
2	28	3.2%
4	18	2.0%
3	16	1.8%
8	7	0.8%
5	5	0.6%

Value	Count	Frequency (%)
0	604	68.1%
1	209	23.6%
2	28	3.2%
3	16	1.8%
4	18	2.0%
5	5	0.6%
8	7	0.8%

Value	Count	Frequency (%)
8	7	0.8%
5	5	0.6%
4	18	2.0%
3	16	1.8%
2	28	3.2%
1	209	23.6%
0	604	68.1%

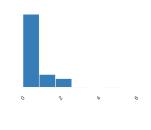
## Parents/Children Aboard

Real number ( $\mathbb{R}$ )

#### ZEROS

Distinct	7
Distinct (%)	0.8%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.38331454

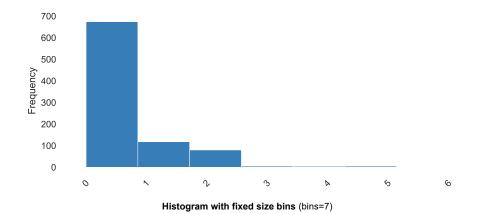
Minimum	0
Maximum	6
Zeros	674
Zeros (%)	76.0%
Negative	0
Negative (%)	0.0%
Memory size	7.1 KiB



### Quantile statistics

Minimum	0
5-th percentile	0
Q1	0
median	0
Q3	0
95-th percentile	2
Maximum	6
Range	6
Interquartile range (IQR)	0

Standard deviation	0.80746591
Coefficient of variation (CV)	2.1065361
Kurtosis	9.7230659
Mean	0.38331454
Median Absolute Deviation (MAD)	0
Skewness	2.7411981
Sum	340
Variance	0.65200119
Monotonicity	Not monotonic



Value	Count	Frequency (%)
0	674	76.0%
1	118	13.3%
2	80	9.0%
5	5	0.6%
3	5	0.6%
4	4	0.5%
6	1	0.1%

Value	Count	Frequency (%)
0	674	76.0%
1	118	13.3%
2	80	9.0%
3	5	0.6%
4	4	0.5%
5	5	0.6%
6	1	0.1%

Value	Count	Frequency (%)
6	1	0.1%
5	5	0.6%
4	4	0.5%
3	5	0.6%
2	80	9.0%
1	118	13.3%
0	674	76.0%

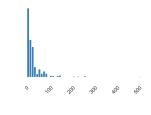
### Fare

Real number ( $\mathbb{R}$ )

#### ZEROS

Distinct	248
Distinct (%)	28.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	32 30542

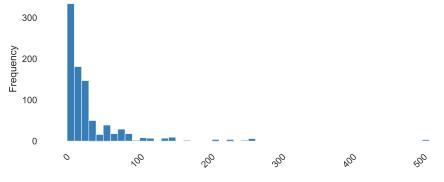
Minimum	0
Maximum	512.3292
Zeros	15
Zeros (%)	1.7%
Negative	0
Negative (%)	0.0%
Momory sizo	7 1 KiB



## Quantile statistics

Minimum	0
5-th percentile	7.225
Q1	7.925
median	14.4542
Q3	31.1375
95-th percentile	112.55749
Maximum	512.3292
Range	512.3292
Interquartile range (IQR)	23.2125

Standard deviation	49.78204
Coefficient of variation (CV)	1.5409811
Kurtosis	33.264605
Mean	32.30542
Median Absolute Deviation (MAD)	6.9584
Skewness	4.7776714
Sum	28654.908
Variance	2478.2515
Monotonicity	Not monotonic



Histogram with fixed size bins (bins=50)

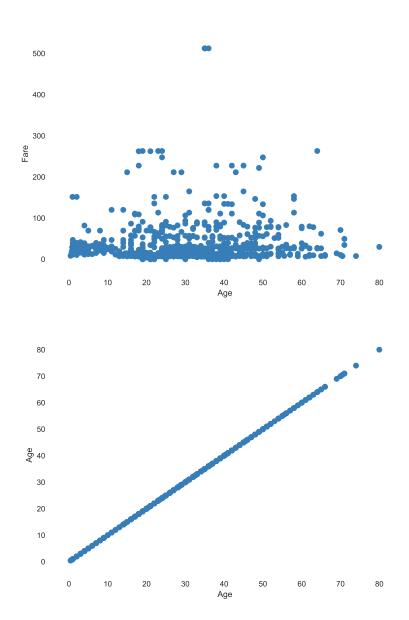
Value	Count	Frequency (%)
8.05	43	4.8%
13	42	4.7%
7.8958	36	4.1%
7.75	33	3.7%
26	31	3.5%
10.5	24	2.7%
7.925	18	2.0%
7.775	16	1.8%
7.2292	15	1.7%
26.55	15	1.7%
Other values (238)	614	69.2%

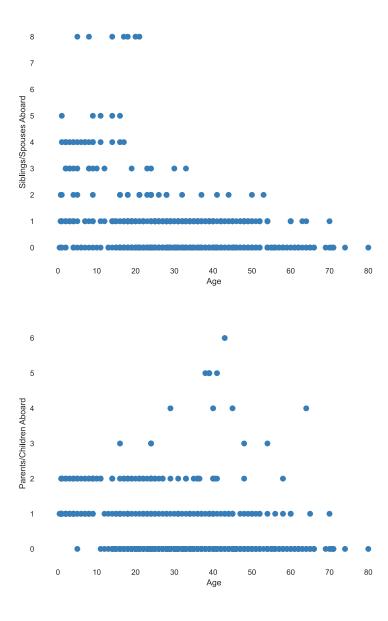
Value	Count	Frequency (%)
0	15	1.7%
4.0125	1	0.1%
5	1	0.1%
6.2375	1	0.1%
6.4375	1	0.1%
6.45	1	0.1%
6.4958	2	0.2%
6.75	2	0.2%
6.8583	1	0.1%
6.95	1	0.1%

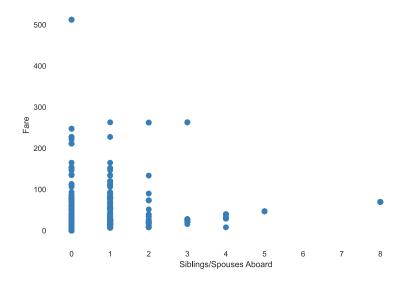
Value	Count	Frequency (%)
512.3292	3	0.3%
263	4	0.5%
262.375	2	0.2%

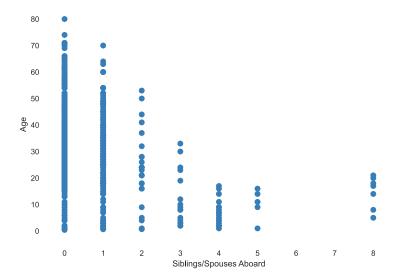
Value	Count	2 0.2%	
247.5208	2		
227.525	4	0.5%	
221.7792	1	0.1%	
211.5	1	0.1%	
211.3375	3	0.3%	
164.8667	2	0.2%	
153.4625	3	0.3%	

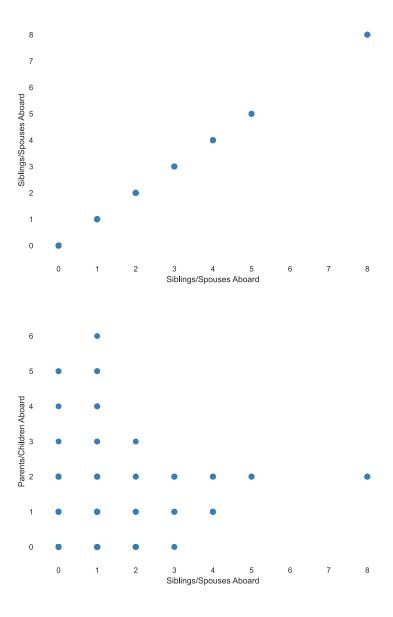
# Interactions

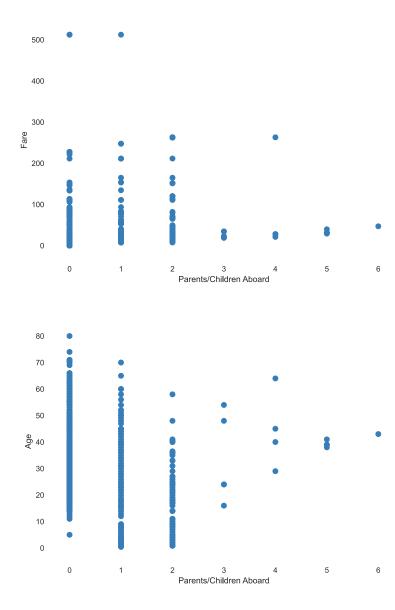


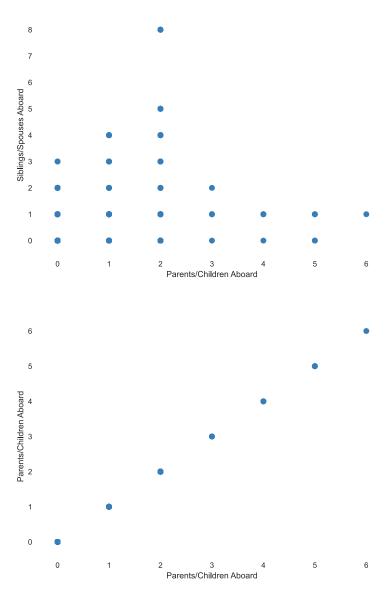


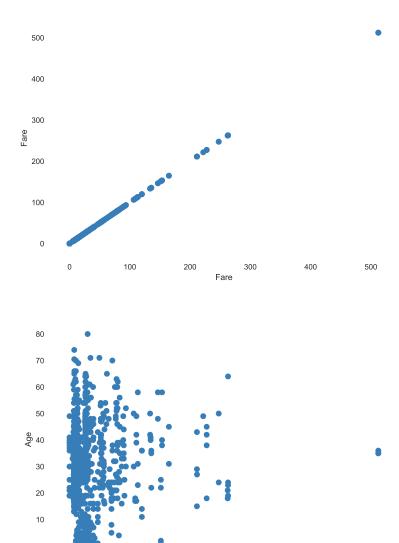










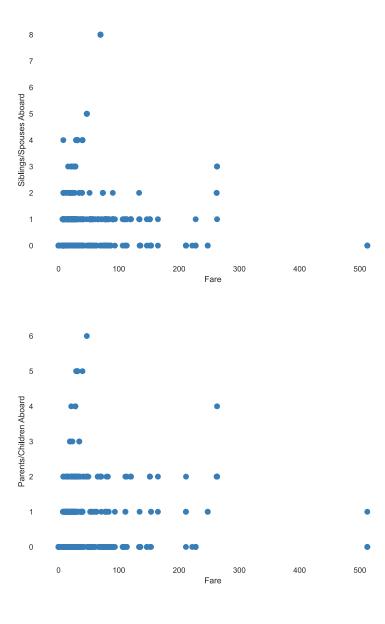


100

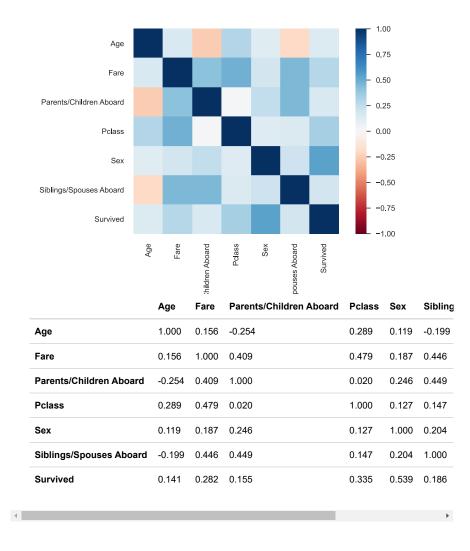
200

500

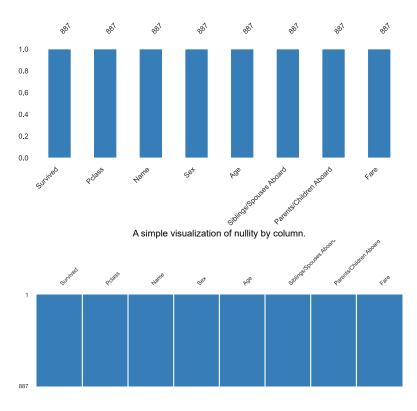
400



# Correlations



# Missing values



Nullity matrix is a data-dense display which lets you quickly visually pick out patterns in data completion.

# Sample

	Survived	Pclass	Name	Sex	Age	Sibling
0	0	3	Mr. Owen Harris Braund	male	22.0	1
1	1	1	Mrs. John Bradley (Florence Briggs Thayer) Cumings	female	38.0	1
2	1	3	Miss. Laina Heikkinen	female	26.0	0
3	1	1	Mrs. Jacques Heath (Lily May Peel) Futrelle	female	35.0	1
4	0	3	Mr. William Henry Allen	male	35.0	0
5	0	3	Mr. James Moran	male	27.0	0

	Survived	Pclass	Name	Sex	Age	Sibling
6	0	1	Mr. Timothy J McCarthy	male	54.0	0
7	0	3	Master. Gosta Leonard Palsson	male	2.0	3
8	1	3	Mrs. Oscar W (Elisabeth Vilhelmina Berg) Johnson	female	27.0	0
9	1	2	Mrs. Nicholas (Adele Achem) Nasser	female	14.0	1

		Survived	Pclass	Name	Sex	Age	Siblings/Spouses Ab
	877	0	3	Mr. Johann Markun	male	33.0	0
	878	0	3	Miss. Gerda Ulrika Dahlberg	female	22.0	0
	879	0	2	Mr. Frederick James Banfield	male	28.0	0
	880	0	3	Mr. Henry Jr Sutehall	male	25.0	0
	881	0	3	Mrs. William (Margaret Norton) Rice	female	39.0	0
	882	0	2	Rev. Juozas Montvila	male	27.0	0
4	883	1	1	Miss. Margaret Edith Graham	female	19.0	0
	884	0	3	Miss. Catherine Helen Johnston	female	7.0	1
	885	1	1	Mr. Karl Howell Behr	male	26.0	0
	886	0	3	Mr. Patrick Dooley	male	32.0	0
4							<b>&gt;</b>

Report generated by YData (https://ydata.ai/?utm\_source=opensource&utm\_medium=pandasprofiling&utm\_campaign=report).