



## TITANIC EXPLORATIVE DATA ANALYSIS

# Overview

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Overview    Alerts 20    Reproduction

Dataset statistics		Variable types	
<b>Number of variables</b>	15	<b>Categorical</b>	8
<b>Number of observations</b>	891	<b>Numeric</b>	4
<b>Missing cells</b>	869	<b>Boolean</b>	3
<b>Missing cells (%)</b>	6.5%		
<b>Duplicate rows</b>	1		
<b>Duplicate rows (%)</b>	0.1%		
<b>Total size in memory</b>	313.7 KiB		
<b>Average record size in memory</b>	360.5 B		

## Variables

Select Columns

**survived**  
Categorical  
High correlation

<b>Distinct</b>	2	0	549
		1	342

**Distinct (%)** 0.2%**Missing** 0**Missing (%)** 0.0%**Memory size** 50.6 KiB[More details](#)

## pclass

Categorical

High correlation

**Distinct** 3

3 491

**Distinct (%)** 0.3%

1 216

2 184

**Missing** 0**Missing (%)** 0.0%**Memory size** 50.6 KiB[More details](#)

## sex

Categorical

High correlation

**Distinct** 2

male 577

**Distinct (%)** 0.2%

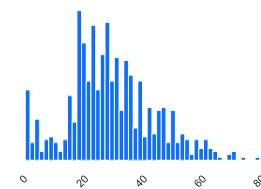
female 314

**Missing** 0**Missing (%)** 0.0%**Memory size** 53.8 KiB

[More details](#)

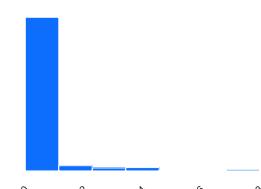
## age

Real number (ℝ)

[High correlation](#) [Missing](#)**Distinct** 88**Minimum** 0.42**Distinct (%)** 12.3%**Maximum** 80**Missing** 177**Zeros** 0**Missing (%)** 19.9%**Zeros (%)** 0.0%**Infinite** 0**Negative** 0  
**(%)** 0.0%**Infinite (%)** 0.0%**Memory size** 7.1 KiB**Mean** 29.699118[◀](#) [▶](#)[More details](#)

## sibsp

Real number (ℝ)

[High correlation](#) [Zeros](#)**Distinct** 7**Minimum** 0**Distinct (%)** 0.8%**Maximum** 8**Missing** 0**Zeros** 608**Missing (%)** 0.0%**Zeros (%)** 68.2%**Infinite** 0**Negative** 0

**Infinite (%)** 0.0%

**Mean** 0.52300786

**Negative (%)** 0.0%

**Memory size** 7.1 KiB

[More details](#)

## parch

Real number ( $\mathbb{R}$ )

[High correlation](#) [Zeros](#)

**Distinct** 7

**Distinct (%)** 0.8%

**Missing** 0

**Missing (%)** 0.0%

**Infinite** 0

**Infinite (%)** 0.0%

**Mean** 0.38159371

**Minimum** 0

**Maximum** 6

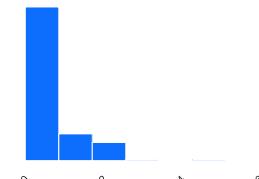
**Zeros** 678

**Zeros (%)** 76.1%

**Negative** 0

**Negative (%)** 0.0%

**Memory size** 7.1 KiB

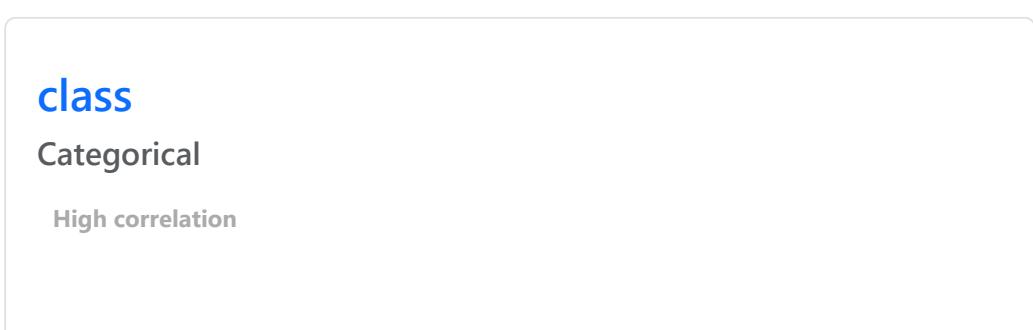
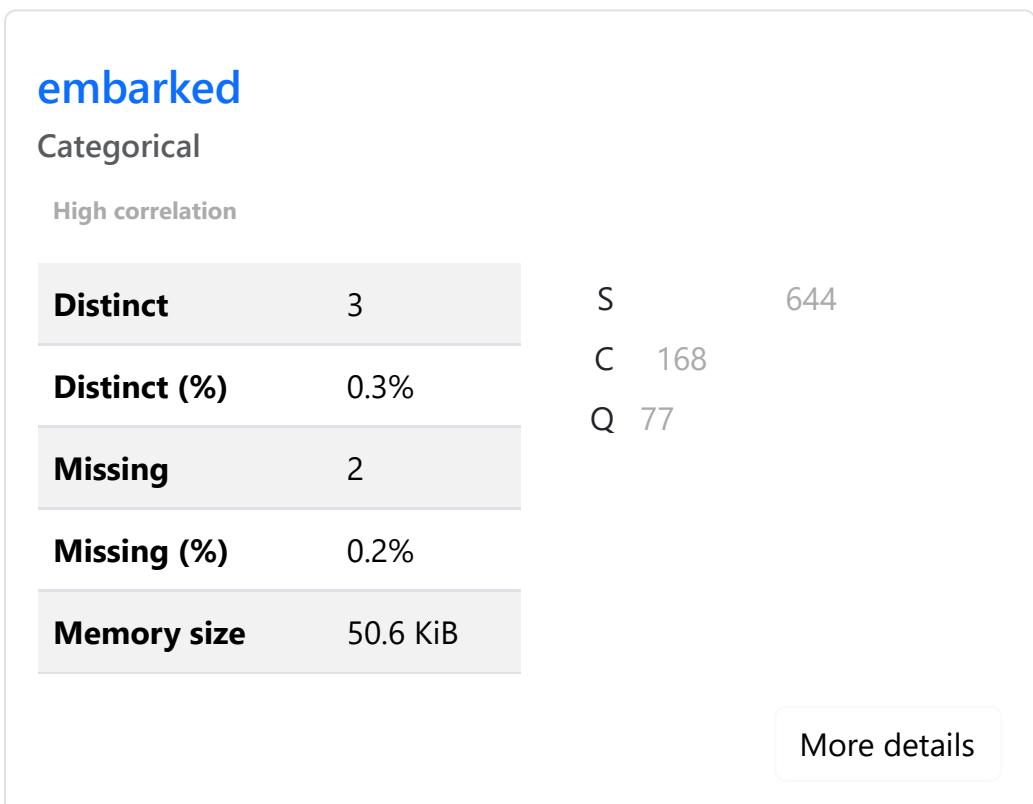
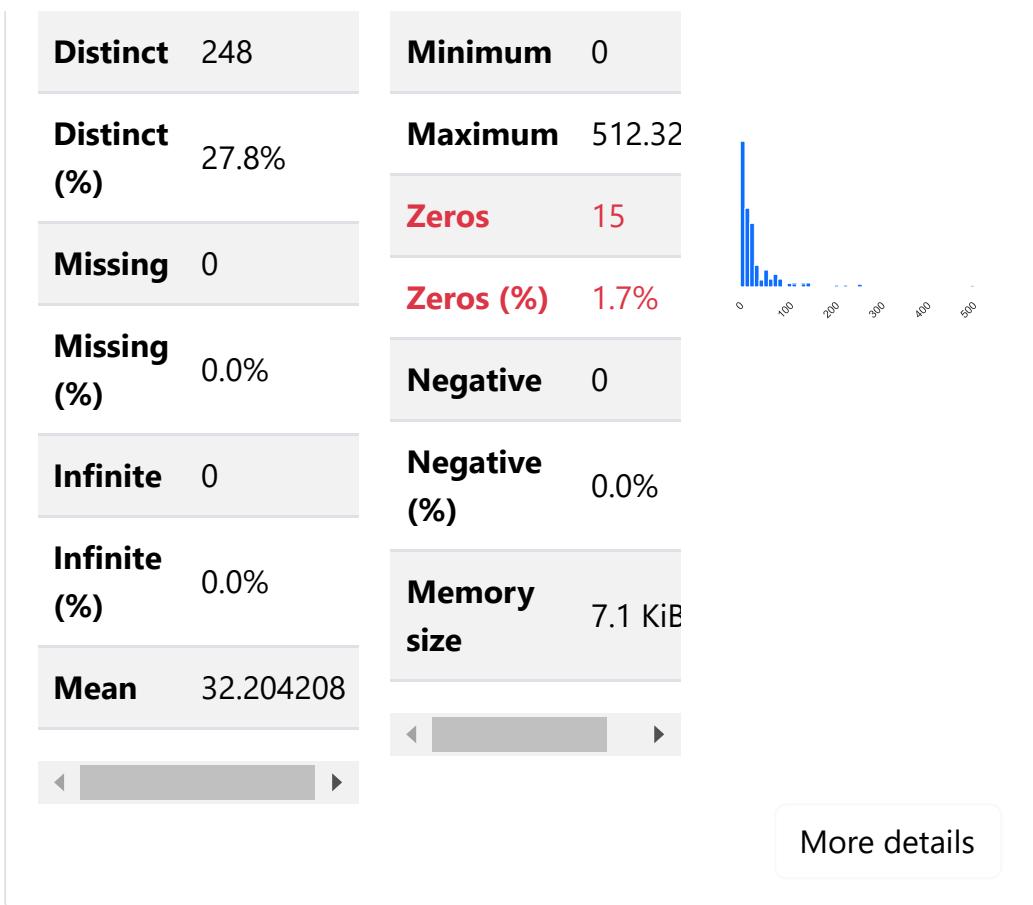


[More details](#)

## fare

Real number ( $\mathbb{R}$ )

[Zeros](#)



<b>Distinct</b>	3
<b>Distinct (%)</b>	0.3%
<b>Missing</b>	0
<b>Missing (%)</b>	0.0%
<b>Memory size</b>	1.3 KiB

Third	491
First	216
Second	184

[More details](#)

## who

Categorical

High correlation

<b>Distinct</b>	3
<b>Distinct (%)</b>	0.3%
<b>Missing</b>	0
<b>Missing (%)</b>	0.0%
<b>Memory size</b>	53.0 KiB

man	537
woman	271
child	83

[More details](#)

## adult\_male

Boolean

High correlation

<b>Distinct</b>	2
<b>Distinct (%)</b>	0.2%
<b>Missing</b>	0
<b>Missing (%)</b>	0.0%
<b>Memory size</b>	1019.0 B

True	537
False	354

[More details](#)

## deck

Categorical

[High correlation](#) [Missing](#)

<b>Distinct</b>	7	C	59
<b>Distinct (%)</b>	3.4%	B	47
<b>Missing</b>	688	D	33
<b>Missing (%)</b>	77.2%	E	32
<b>Memory size</b>	1.7 KiB	A	15
		Other va...	17

[More details](#)

## embark\_town

Categorical

[High correlation](#)

<b>Distinct</b>	3	Southam...	644
<b>Distinct (%)</b>	0.3%	Cherbou...	168
<b>Missing</b>	2	Queenst...	77
<b>Missing (%)</b>	0.2%		
<b>Memory size</b>	58.8 KiB		

[More details](#)

## alive

Boolean

[High correlation](#)

<b>Distinct</b>	2	False	549
<b>Distinct (%)</b>	0.2%	True	342
<b>Missing</b>	0		
<b>Missing (%)</b>	0.0%		
<b>Memory size</b>	1019.0 B		

[More details](#)

## alone

Boolean

High correlation

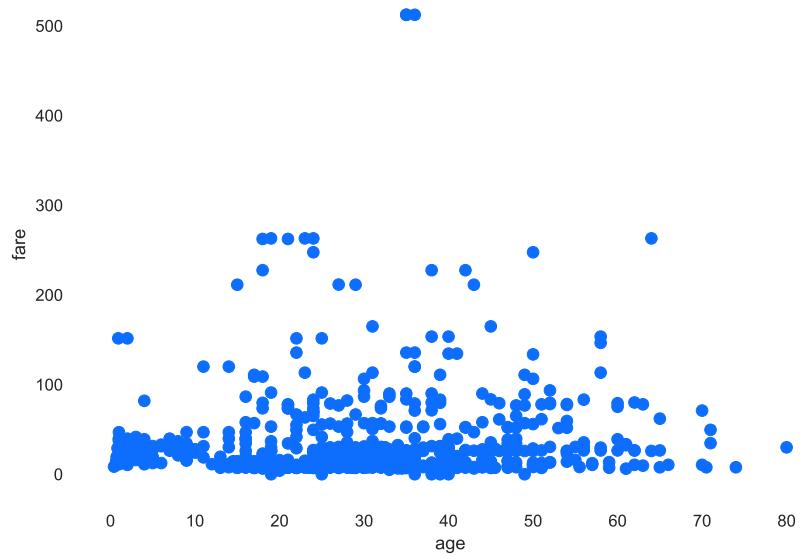
<b>Distinct</b>	2	True	537
<b>Distinct (%)</b>	0.2%	False	354
<b>Missing</b>	0		
<b>Missing (%)</b>	0.0%		
<b>Memory size</b>	1019.0 B		

[More details](#)

# Interactions

age      sibsp      parch      fare

fare      age      sibsp      parch

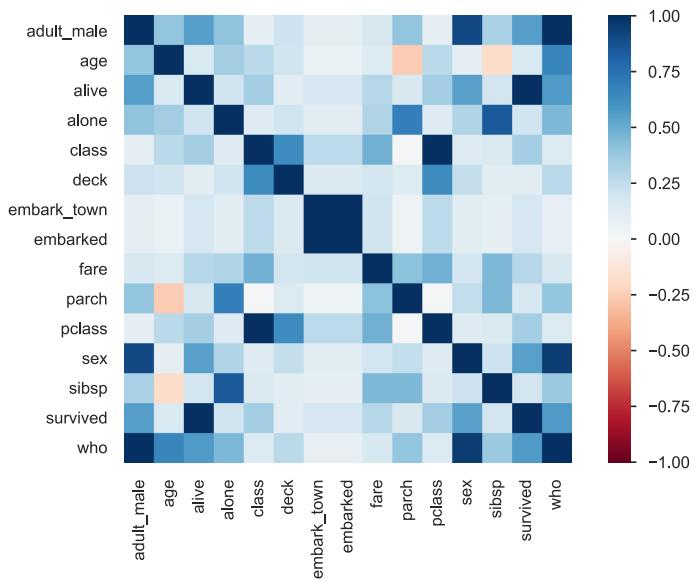


## Correlations

Auto

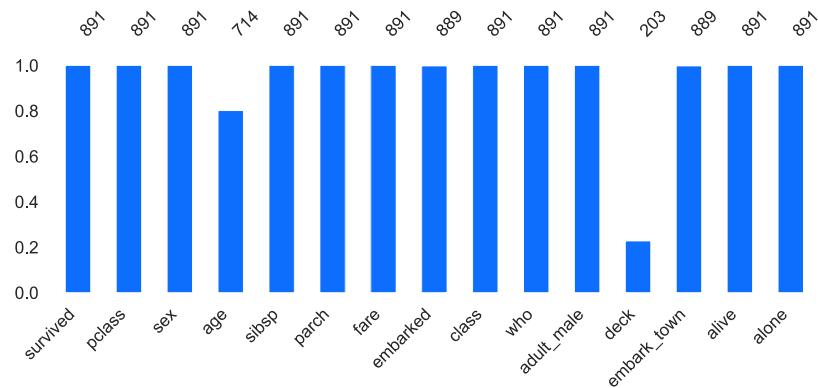
Heatmap

Table



## Missing values

[Count](#)[Matrix](#)[Heatmap](#)



A simple visualization of nullity by column.

## Sample

First rows
Last rows

	survived	pclass	sex	age	sibsp	parch	fare	embark_town
0	0	3	male	22.0	1	0	7.2500	S
1	1	1	female	38.0	1	0	71.2833	C
2	1	3	female	26.0	0	0	7.9250	S
3	1	1	female	35.0	1	0	53.1000	S
4	0	3	male	35.0	0	0	8.0500	S
5	0	3	male	NaN	0	0	8.4583	Q
6	0	1	male	54.0	0	0	51.8625	S
7	0	3	male	2.0	3	1	21.0750	S

	survived	pclass	sex	age	sibsp	parch	fare	embarked
8	1	3	female	27.0	0	2	11.1333	S
9	1	2	female	14.0	1	0	30.0708	C

## Duplicate rows

### Most frequently occurring

	survived	pclass	sex	age	sibsp	parch	fare	embarked
0	1	1	female	24.0	0	0	69.3	C

Report generated by YData.