

Overview

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Dataset statistics

Number of variables	22
Number of observations	2000
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	248.2 KiB
Average record size in memory	127.1 B

Variable types

Numeric	15
Boolean	7

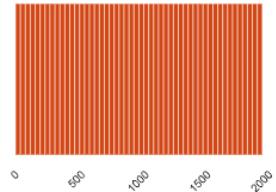
Variables

id

Real number ($\mathbb{R}_{\geq 0}$)**UNIFORM****UNIQUE***ID*

Distinct	2000
Distinct (%)	100.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Mean	999.5
Minimum	0
Maximum	1999
Zeros	1
Zeros (%)	< 0.1%
Memory size	15.8 KiB

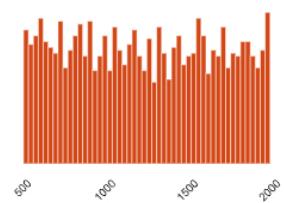

[Toggle details](#)

battery_power

Real number ($\mathbb{R}_{\geq 0}$)
Total energy a battery can store in one time measured in mAh

Distinct	1094
Distinct (%)	54.7%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Mean	1238.5185
Minimum	501
Maximum	1998
Zeros	0
Zeros (%)	0.0%
Memory size	15.8 KiB


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[Statistics](#)
[Histogram](#)
[Common values](#)
[Extreme values](#)

Quantile statistics

Descriptive statistics

Minimum	501
5-th percentile	570.95
Q1	851.75
median	1226
Q3	1615.25
95-th percentile	1930.15
Maximum	1998
Range	1497
Interquartile range (IQR)	763.5

Standard deviation	439.4182061
Coefficient of variation (CV)	0.3547934133
Kurtosis	-1.224143883
Mean	1238.5185
Median Absolute Deviation (MAD)	382
Skewness	0.03189847179
Sum	2477037
Variance	193088.3598
Monotocity	Not monotonic

has_bluetooth

Boolean

Has bluetooth or not

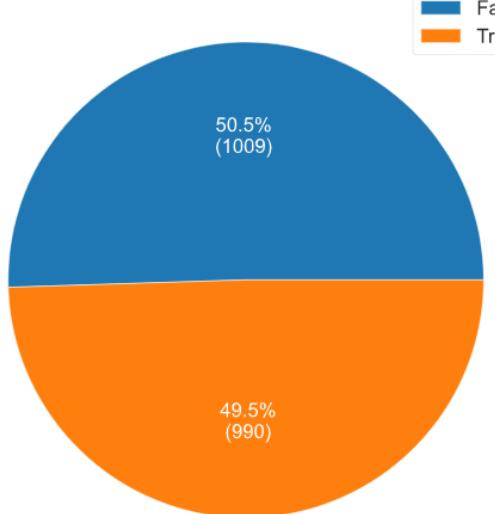
Distinct	2
Distinct (%)	0.1%
Missing	0
Missing (%)	0.0%
Memory size	2.1 KiB

False	1010
True	990

[Toggle details](#)

[Common Values](#)

[Chart](#)



clock_speed

Real number ($\mathbb{R}_{>0}$)

speed at which microprocessor executes instructions

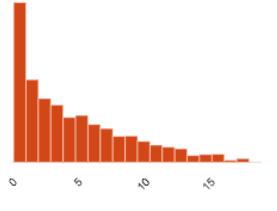
Distinct	26
Distinct (%)	1.3%
Missing	0
Missing (%)	0.0%

Mean	1.52225
Minimum	0.5
Maximum	3
Zeros	0



Infinite	0	Zeros (%)	0.0%	
Infinite (%)	0.0%	Memory size	15.8 KiB	
Toggle details				
Statistics	Histogram	Common values	Extreme values	
Quantile statistics				
Minimum	0.5	Descriptive statistics		
5-th percentile	0.5	Standard deviation	0.8160042089	
Q1	0.7	Coefficient of variation (CV)	0.5360513772	
median	1.5	Kurtosis	-1.323417222	
Q3	2.2	Mean	1.52225	
95-th percentile	2.8	Median Absolute Deviation (MAD)	0.8	
Maximum	3	Skewness	0.1780841203	
Range	2.5	Sum	3044.5	
Interquartile range (IQR)	1.5	Variance	0.6658628689	
		Monotocity	Not monotonic	

has_dual_sim	Distinct	2	True	1019
Boolean	Distinct (%)	0.1%	False	981
<i>Has dual sim support or not</i>				
	Missing	0		
	Missing (%)	0.0%		
	Memory size	2.1 KiB		
Toggle details				
Common Values	Chart			
Value			Count	Frequency (%)
True			1019	50.9%
False			981	49.0%

front_cam_resolution	Distinct	20	Mean	4.3095
Real number ($\mathbb{R}_{\geq 0}$)	Distinct (%)	1.0%	Minimum	0
ZEROS				
Front Camera mega pixels	Missing	0	Maximum	19
	Missing (%)	0.0%	Zeros	474
	Infinite	0	Zeros (%)	23.7%
	Infinite (%)	0.0%	Memory size	15.8 KiB
Toggle details				
Statistics	Histogram	Common values	Extreme values	
Quantile statistics				
				
Descriptive statistics				

QUANTILE STATISTICS

Minimum	0
5-th percentile	0
Q1	1
median	3
Q3	7
95-th percentile	13
Maximum	19
Range	19
Interquartile range (IQR)	6

DESCRIPTIVE STATISTICS

Standard deviation	4.341443748
Coefficient of variation (CV)	1.007412402
Kurtosis	0.2770763246
Mean	4.3095
Median Absolute Deviation (MAD)	3
Skewness	1.019811411
Sum	8619
Variance	18.84813382
Monotocity	Not monotonic

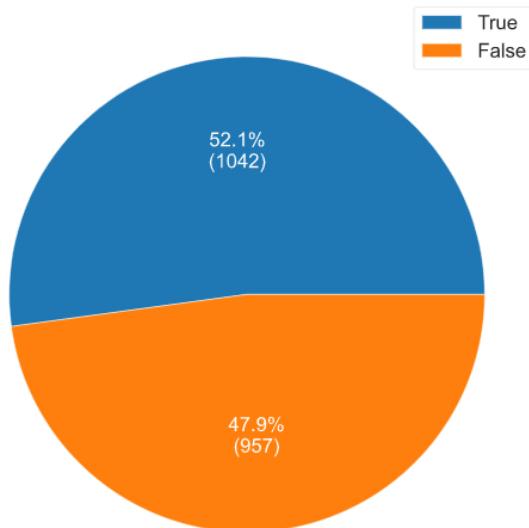
has_four_g

Boolean

Has 4G or not. 1 = yes, 0 = no

Distinct	2
Distinct (%)	0.1%
Missing	0
Missing (%)	0.0%
Memory size	2.1 KiB

True	1043
False	957

[Toggle details](#)[Common Values](#)[Chart](#)

int_memory

Real number ($\mathbb{R}_{>0}$)

internal Memory in Gigabytes

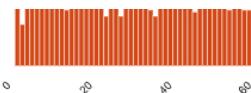
Distinct	63
Distinct (%)	3.1%
Missing	0

Mean	32.0465
Minimum	2
Maximum	64



Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Zeros	0
Zeros (%)	0.0%
Memory size	15.8 KiB

[Toggle details](#)[Statistics](#)[Histogram](#)[Common values](#)[Extreme values](#)

Quantile statistics

Minimum	2
5-th percentile	5
Q1	16
median	32
Q3	48
95-th percentile	61
Maximum	64
Range	62
Interquartile range (IQR)	32

Descriptive statistics

Standard deviation	18.14571496
Coefficient of variation (CV)	0.5662307882
Kurtosis	-1.21607403
Mean	32.0465
Median Absolute Deviation (MAD)	16
Skewness	0.05788932785
Sum	64093
Variance	329.2669712
Monotocity	Not monotonic

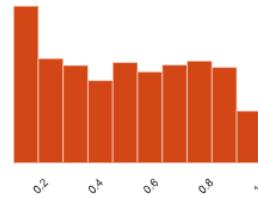
mobile_depth

Real number ($\mathbb{R}_{\geq 0}$)

Mobile Depth in cm

Distinct	10
Distinct (%)	0.5%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Mean	0.50175
Minimum	0.1
Maximum	1
Zeros	0
Zeros (%)	0.0%
Memory size	15.8 KiB

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Quantile statistics

Minimum	0.1
5-th percentile	0.1
Q1	0.2
median	0.5
Q3	0.8
95-th percentile	1
Maximum	1
Range	0.9
Interquartile range (IQR)	0.6

Descriptive statistics

Standard deviation	0.2884155496
Coefficient of variation (CV)	0.5748192319
Kurtosis	-1.274348884
Mean	0.50175
Median Absolute Deviation (MAD)	0.3
Skewness	0.08908200979
Sum	1003.5
Variance	0.08318352926
Monotocity	Not monotonic

mobile_weight

Distinct	121
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Mean	140.249
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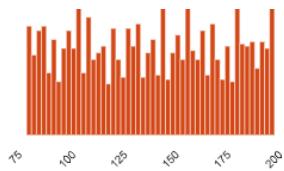


Real number ($\mathbb{R}_{\geq 0}$)

Weight of mobile phone

Distinct (%)	6.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Minimum	80
Maximum	200
Zeros	0
Zeros (%)	0.0%
Memory size	15.8 KiB

[Toggle details](#)

Statistics

Histogram

Common values

Extreme values

Quantile statistics

Minimum	80
5-th percentile	86
Q1	109
median	141
Q3	170
95-th percentile	196
Maximum	200
Range	120
Interquartile range (IQR)	61

Descriptive statistics

Standard deviation	35.3996549
Coefficient of variation (CV)	0.2524057562
Kurtosis	-1.210376474
Mean	140.249
Median Absolute Deviation (MAD)	31
Skewness	0.006558157429
Sum	280498
Variance	1253.135567
Monotocity	Not monotonic

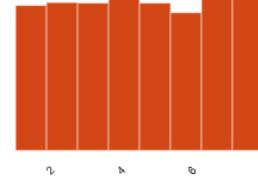
number_of_cores

Real number ($\mathbb{R}_{\geq 0}$)

Number of cores of processor

Distinct	8
Distinct (%)	0.4%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Mean	4.5205
Minimum	1
Maximum	8
Zeros	0
Zeros (%)	0.0%
Memory size	15.8 KiB

[Toggle details](#)

Statistics

Histogram

Common values

Extreme values

Quantile statistics

Minimum	1
5-th percentile	1
Q1	3
median	4
Q3	7
95-th percentile	8
Maximum	8
Range	7
Interquartile range (IQR)	4

Descriptive statistics

Standard deviation	2.287836718
Coefficient of variation (CV)	0.5061025811
Kurtosis	-1.229749767
Mean	4.5205
Median Absolute Deviation (MAD)	2
Skewness	0.003627508314
Sum	9041
Variance	5.234196848
Monotocity	Not monotonic

primary_cam_resolut...

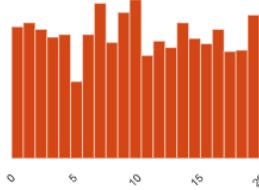
Real number ($R_{>0}$)

ZEROS

Primary Camera mega pixels

Distinct	21
Distinct (%)	1.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Mean	9.9165
Minimum	0
Maximum	20
Zeros	101
Zeros (%)	5.1%
Memory size	15.8 KiB



[Toggle details](#)

Statistics

Histogram

Common values

Extreme values

Quantile statistics

Minimum	0
5-th percentile	0
Q1	5
median	10
Q3	15
95-th percentile	20
Maximum	20
Range	20
Interquartile range (IQR)	10

Descriptive statistics

Standard deviation	6.064314941
Coefficient of variation (CV)	0.6115378351
Kurtosis	-1.171498795
Mean	9.9165
Median Absolute Deviation (MAD)	5
Skewness	0.01730615047
Sum	19833
Variance	36.77591571
Monotocity	Not monotonic

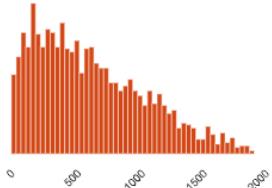
px_height

Real number ($R_{\geq 0}$)

Pixel Resolution Height

Distinct	1137
Distinct (%)	56.9%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Mean	645.108
Minimum	0
Maximum	1960
Zeros	2
Zeros (%)	0.1%
Memory size	15.8 KiB



[Toggle details](#)

Statistics

Histogram

Common values

Extreme values

Quantile statistics

Minimum	0
5-th percentile	70.95
Q1	282.75
median	564
Q3	947.25
95-th percentile	1485.05
Maximum	1960
Range	1960
Interquartile range (IQR)	664.5

Descriptive statistics

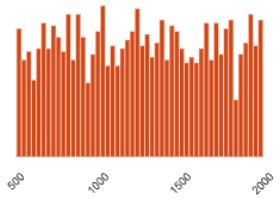
Standard deviation	443.7808108
Coefficient of variation (CV)	0.6879170787
Kurtosis	-0.3158654936
Mean	645.108
Median Absolute Deviation (MAD)	318
Skewness	0.6662712561
Sum	1290216
Variance	196941.408
Monotocity	Not monotonic

px_widthReal number ($\mathbb{R}_{\geq 0}$)

Pixel Resolution Width

Distinct	1109
Distinct (%)	55.5%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Mean	1251.5155
Minimum	500
Maximum	1998
Zeros	0
Zeros (%)	0.0%
Memory size	15.8 KiB

**Toggle details****Statistics****Histogram****Common values****Extreme values****Quantile statistics**

Minimum	500
5-th percentile	579.85
Q1	874.75
median	1247
Q3	1633
95-th percentile	1929.05
Maximum	1998
Range	1498
Interquartile range (IQR)	758.25

Descriptive statistics

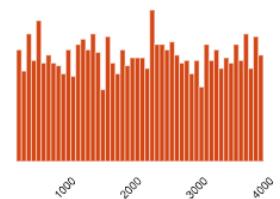
Standard deviation	432.1994469
Coefficient of variation (CV)	0.3453408663
Kurtosis	-1.186005229
Mean	1251.5155
Median Absolute Deviation (MAD)	376
Skewness	0.01478747377
Sum	2503031
Variance	186796.3619
Monotocity	Not monotonic

ramReal number ($\mathbb{R}_{\geq 0}$)

Random Access Memory in Mega Bytes

Distinct	1562
Distinct (%)	78.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Mean	2124.213
Minimum	256
Maximum	3998
Zeros	0
Zeros (%)	0.0%
Memory size	15.8 KiB

**Toggle details****Statistics****Histogram****Common values****Extreme values****Quantile statistics**

Minimum	256
5-th percentile	445
Q1	1207.5
median	2146.5
Q3	3064.5
95-th percentile	3826.35
Maximum	3998
Range	3742
Interquartile range (IQR)	1857

Descriptive statistics

Standard deviation	1084.732044
Coefficient of variation (CV)	0.5106512594
Kurtosis	-1.19191307
Mean	2124.213
Median Absolute Deviation (MAD)	932.5
Skewness	0.006628035399
Sum	4248426
Variance	1176643.606
Monotocity	Not monotonic

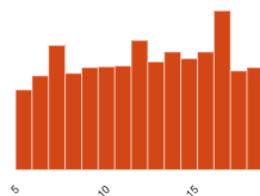
screen_height

Real number ($\mathbb{R}_{>0}$)

Screen Height of mobile in cm

Distinct	15
Distinct (%)	0.8%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Mean	12.3065
Minimum	5
Maximum	19
Zeros	0
Zeros (%)	0.0%
Memory size	15.8 KiB



[Toggle details](#)

Statistics

Histogram

Common values

Extreme values

Quantile statistics

Minimum	5
5-th percentile	6
Q1	9
median	12
Q3	16
95-th percentile	19
Maximum	19
Range	14
Interquartile range (IQR)	7

Descriptive statistics

Standard deviation	4.213245004
Coefficient of variation (CV)	0.3423593227
Kurtosis	-1.190791247
Mean	12.3065
Median Absolute Deviation (MAD)	4
Skewness	-0.09888424098
Sum	24613
Variance	17.75143347
Monotocity	Not monotonic

screen_width

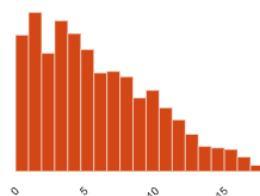
Real number ($\mathbb{R}_{\geq 0}$)

ZEROS

Screen Width of mobile in cm

Distinct	19
Distinct (%)	0.9%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Mean	5.767
Minimum	0
Maximum	18
Zeros	180
Zeros (%)	9.0%
Memory size	15.8 KiB



[Toggle details](#)

Statistics

Histogram

Common values

Extreme values

Quantile statistics

Minimum	0
5-th percentile	0
Q1	2
median	5
Q3	9
95-th percentile	14
Maximum	18

Descriptive statistics

Standard deviation	4.356397606
Coefficient of variation (CV)	0.7554010067
Kurtosis	-0.3895227894
Mean	5.767
Median Absolute Deviation (MAD)	3
Skewness	0.6337870734
Sum	11534

Range	18
Interquartile range (IQR)	7

Variance	18.9782001
Monotocity	Not monotonic

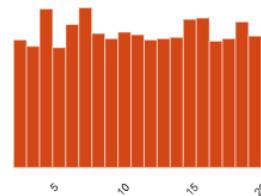
talk_time

Real number ($\mathbb{R}_{\geq 0}$)

longest time that a single battery charge will last when you are

Distinct	19
Distinct (%)	0.9%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Mean	11.011
Minimum	2
Maximum	20
Zeros	0
Zeros (%)	0.0%
Memory size	15.8 KiB



[Toggle details](#)

Statistics

Histogram

Common values

Extreme values

Quantile statistics

Minimum	2
5-th percentile	3
Q1	6
median	11
Q3	16
95-th percentile	20
Maximum	20
Range	18
Interquartile range (IQR)	10

Descriptive statistics

Standard deviation	5.463955198
Coefficient of variation (CV)	0.4962269728
Kurtosis	-1.218590963
Mean	11.011
Median Absolute Deviation (MAD)	5
Skewness	0.009511762222
Sum	22022
Variance	29.8548064
Monotocity	Not monotonic

has_three_g

Boolean

Has 3G or not

Distinct	2
Distinct (%)	0.1%
Missing	0
Missing (%)	0.0%
Memory size	2.1 KiB

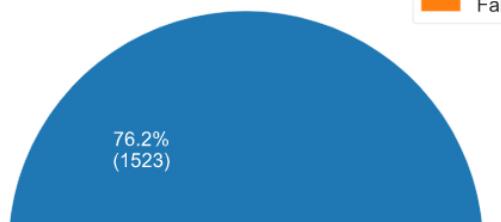
True 1523

False 477

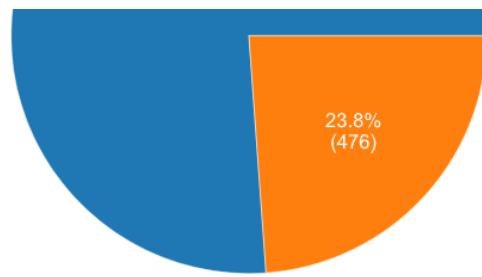
[Toggle details](#)

Common Values

Chart



True
False



has_touch_screen

Boolean

*Has touch screen or not, 1 = yes,
0 = no*

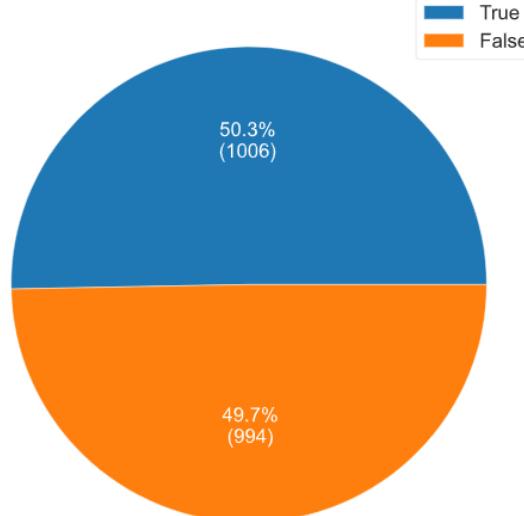
Distinct	2
Distinct (%)	0.1%
Missing	0
Missing (%)	0.0%
Memory size	2.1 KiB

True	1006
False	994

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[Common Values](#)

[Chart](#)



has_wifi

Boolean

Has wifi or not

Distinct	2
Distinct (%)	0.1%
Missing	0
Missing (%)	0.0%

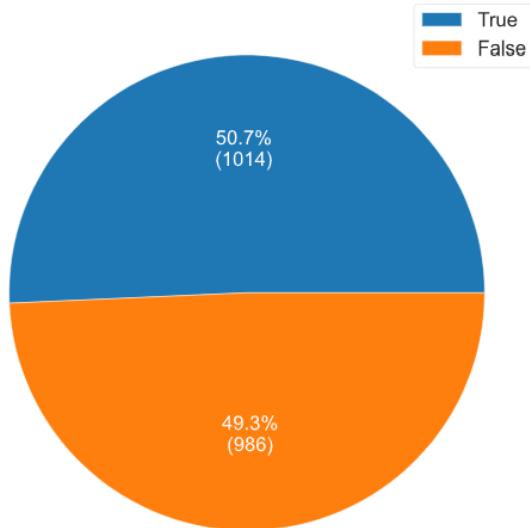
True	1014
False	986

Memory size 2.1 KiB

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[Common Values](#)

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is_expensive

Boolean

This is the target variable with indicating if the mobile phone got a high price. 1 = yes, 0 = no

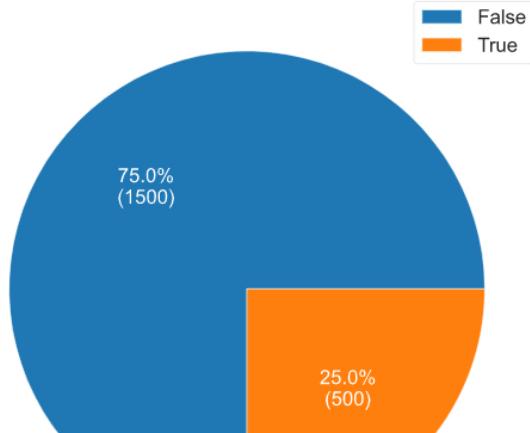
Distinct	2
Distinct (%)	0.1%
Missing	0
Missing (%)	0.0%
Memory size	2.1 KiB

False	1500
True	500

[Toggle details](#)

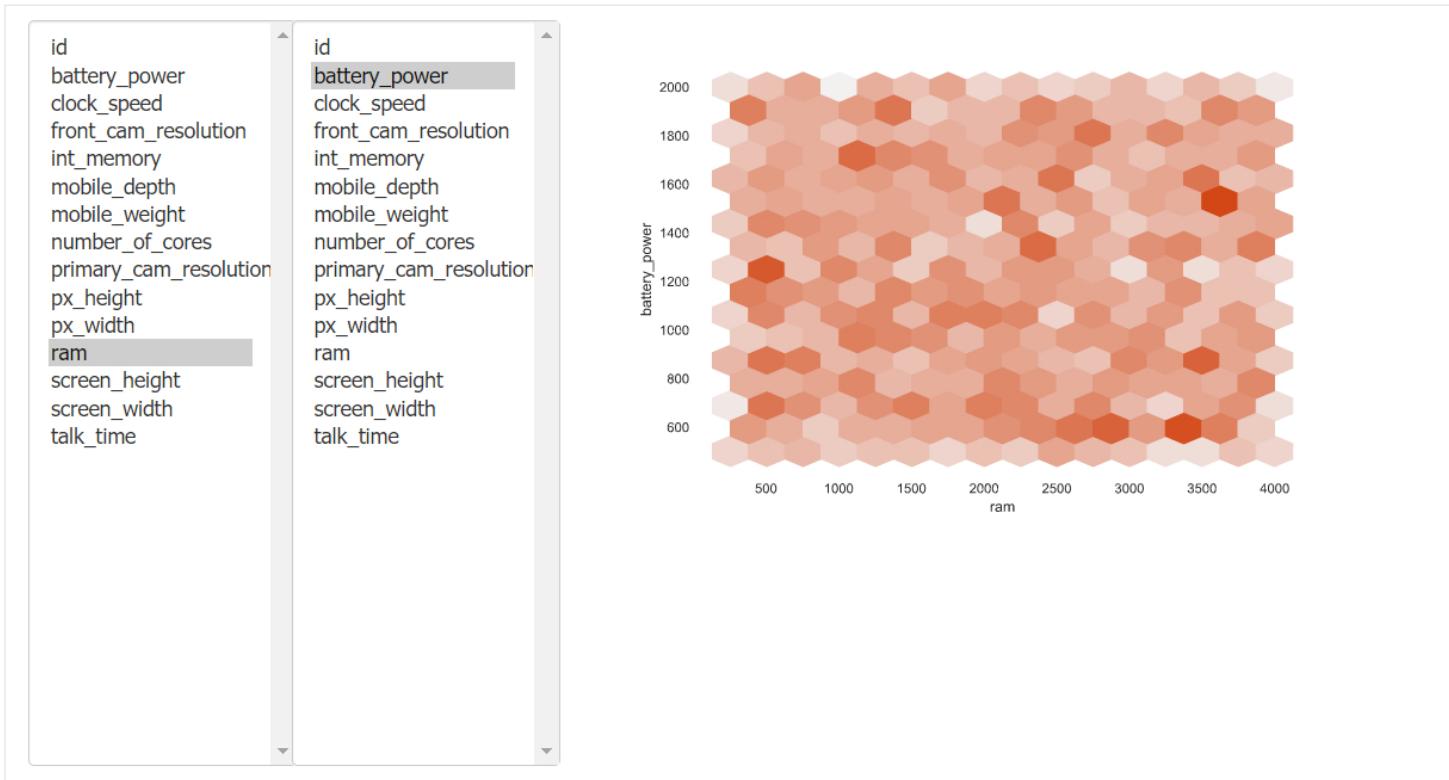
[Common Values](#)

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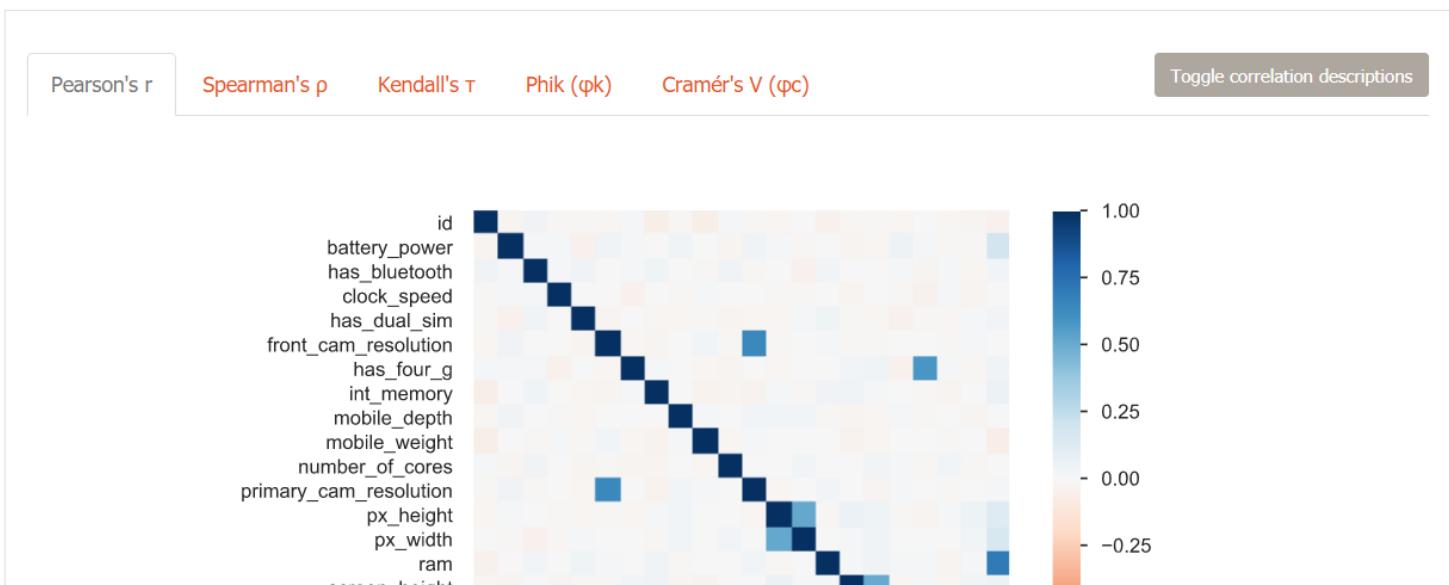


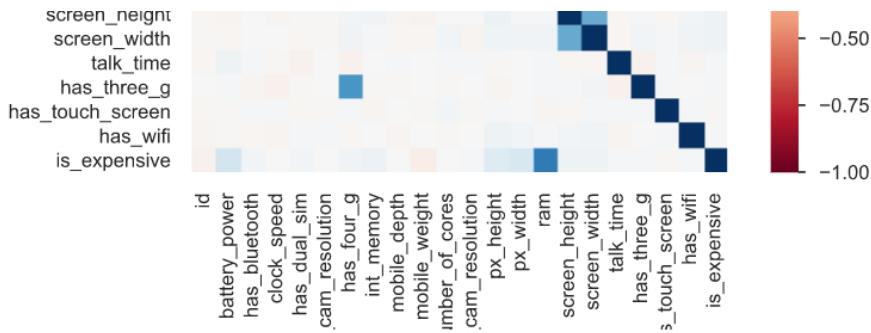


Interactions



Correlations

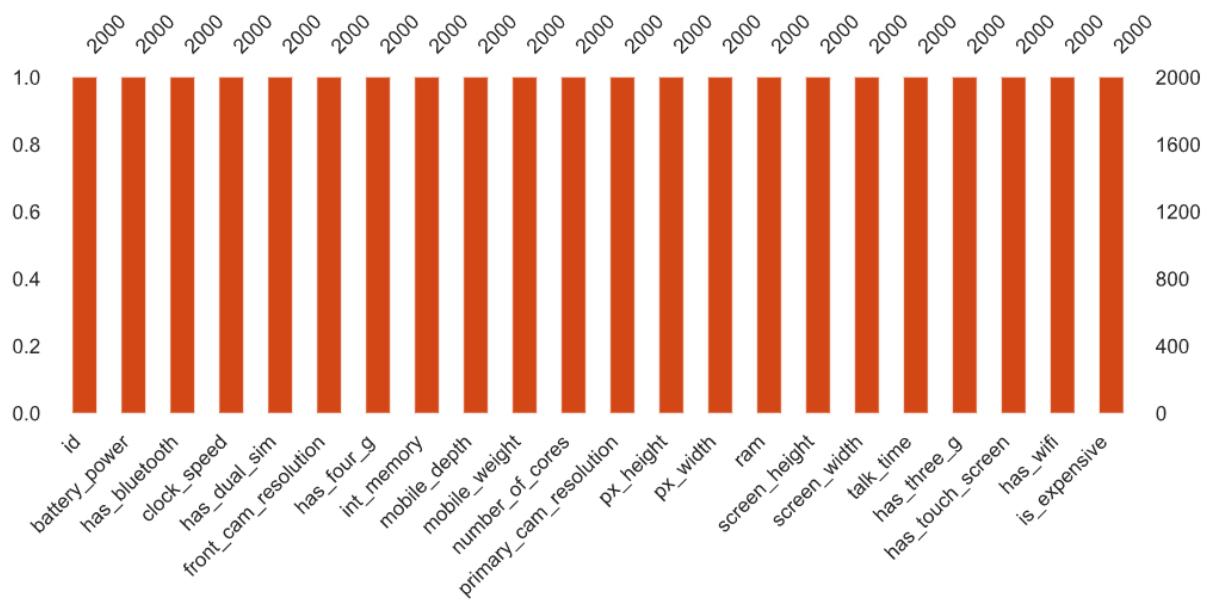




Missing values

Count

Matrix



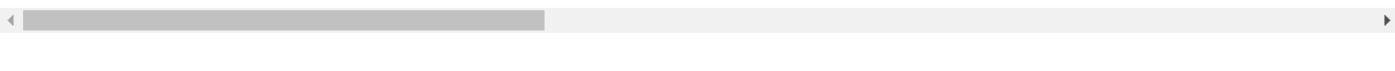
A simple visualization of nullity by column.

Sample

First rows

	id	battery_power	has_bluetooth	clock_speed	has_dual_sim	front_cam_resolution	has_four_g	int_memory	mo
0	0	842	False	2.2	False	1	False	7	0.6
1	1	1021	True	0.5	True	0	True	53	0.7
2	2	563	True	0.5	True	2	True	41	0.9
3	3	615	True	2.5	False	0	False	10	0.8
4	4	1821	True	1.2	False	13	True	44	0.6

5	5	1859	False	0.5	True	3	False	22	0.7
6	6	1821	False	1.7	False	4	True	10	0.8
7	7	1954	False	0.5	True	0	False	24	0.8
8	8	1445	True	0.5	False	0	False	53	0.7
9	9	509	True	0.6	True	2	True	9	0.1



Last rows

	id	battery_power	has_bluetooth	clock_speed	has_dual_sim	front_cam_resolution	has_four_g	int_memory
1990	1990	1617	True	2.4	False	8	True	36
1991	1991	1882	False	2.0	False	11	True	44
1992	1992	674	True	2.9	True	1	False	21
1993	1993	1467	True	0.5	False	0	False	18
1994	1994	858	False	2.2	False	1	False	50
1995	1995	794	True	0.5	True	0	True	2
1996	1996	1965	True	2.6	True	0	False	39
1997	1997	1911	False	0.9	True	1	True	36
1998	1998	1512	False	0.9	False	4	True	46
1999	1999	510	True	2.0	True	5	True	45



Report generated with [pandas-profiling](#).