

Overview

Dataset statistics	
Number of variables	12
Number of observations	11127
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	1.0 MiB
Average record size in memory	96.0 B

Variable types	
Numeric	6
Text	5
Categorical	1

Alerts

ratings_count is highly overall correlated with text_reviews_count	High correlation
text_reviews_count is highly overall correlated with ratings_count	High correlation
language_code is highly imbalanced (76.6%)	Imbalance
isbn13 is highly skewed ($\gamma_1 = -21.07028799$)	Skewed
bookID has unique values	Unique
isbn has unique values	Unique
text_reviews_count has 625 (5.6%) zeros	Zeros

Analysis started	2024-03-03 14:58:51.657057
Analysis finished	2024-03-03 14:58:58.137990
Duration	6.48 seconds
Software version	ydata-profiling vv4.6.5 (https://github.com/ydataai/ydata-profiling)
Download configuration	config.json (data:text/plain;charset=utf-8,%7B%22title%22%3A%20%22Profiling%20Report%22%2C%20%22dataset%22%3A%20%7B%22description%22%3A%20%22%22%2C%20%22create

Variables

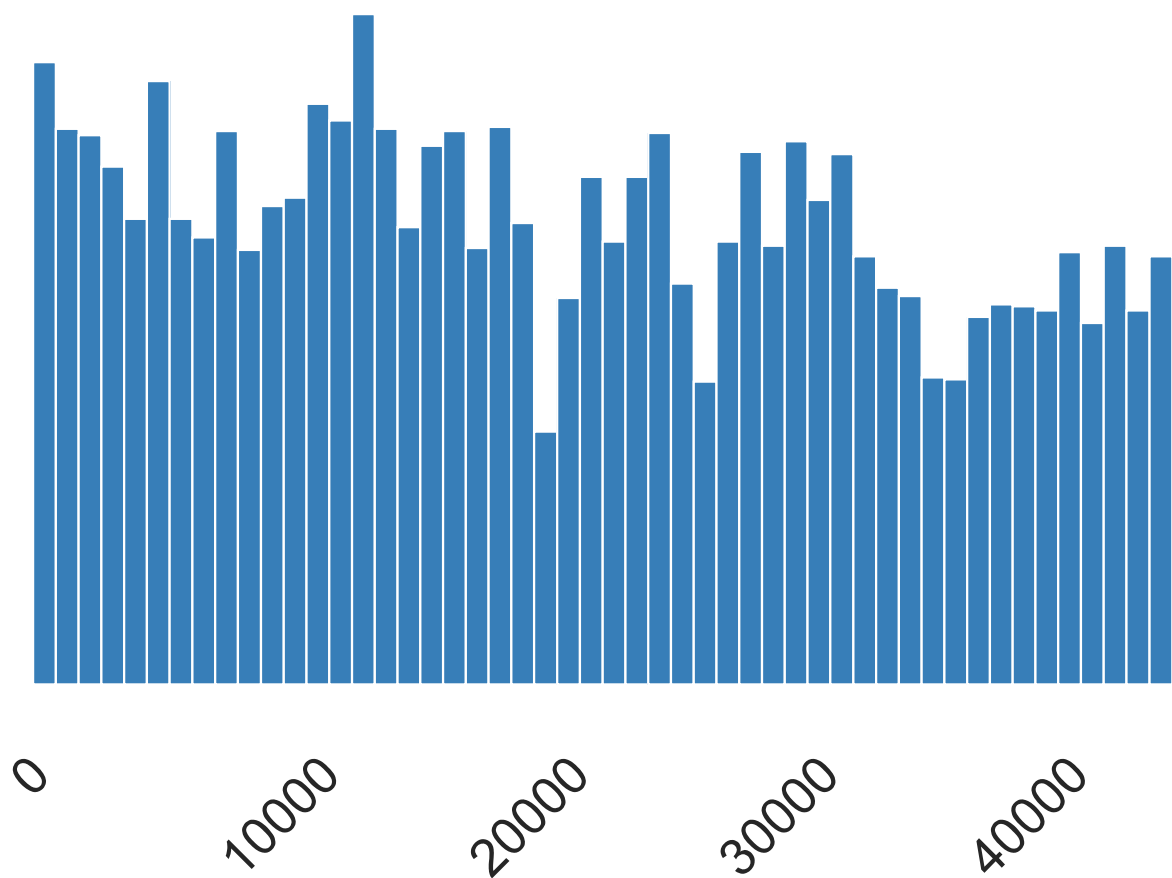
Select Columns 

bookID

Real number (R)

UNIQUE

Distinct	11127
Distinct (%)	100.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	21310.939
Minimum	1
Maximum	45641
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	87.1 KiB



Quantile statistics

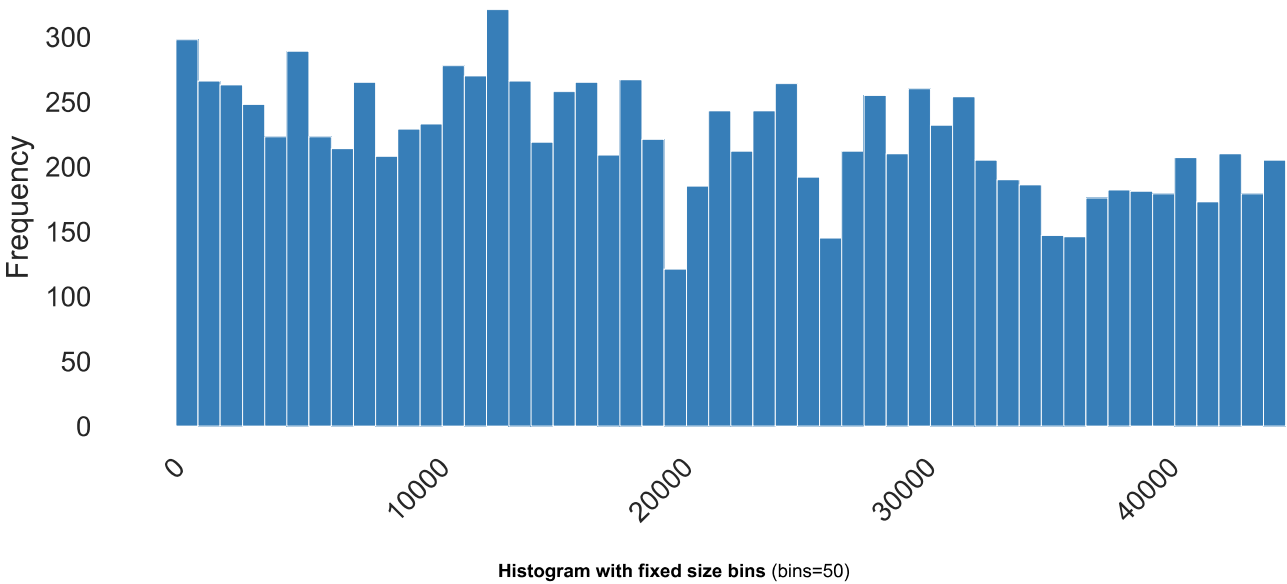
Minimum	1
5-th percentile	1800.3
Q1	10287
median	20287
Q3	32104.5
95-th percentile	43066.5
Maximum	45641
Range	45640
Interquartile range (IQR)	21817.5

Descriptive statistics

Standard deviation	13093.358
Coefficient of variation (CV)	0.61439611
Kurtosis	-1.1463568
Mean	21310.939
Median Absolute Deviation (MAD)	10879
Skewness	0.14405166
Sum	2.3712682×10^8
Variance	1.7143602×10^8

Monotonicity

Not monotonic



Value	Count	Frequency (%)
34889	1	< 0.1%
28532	1	< 0.1%
28510	1	< 0.1%
28511	1	< 0.1%
28514	1	< 0.1%
28522	1	< 0.1%
28524	1	< 0.1%
28529	1	< 0.1%
28530	1	< 0.1%
28531	1	< 0.1%
Other values (11117)	11117	99.9%

Value	Count	Frequency (%)
1	1	< 0.1%
2	1	< 0.1%
4	1	< 0.1%
5	1	< 0.1%
8	1	< 0.1%
9	1	< 0.1%
10	1	< 0.1%
12	1	< 0.1%
13	1	< 0.1%
14	1	< 0.1%

Value	Count	Frequency (%)
45641	1	< 0.1%
45639	1	< 0.1%
45634	1	< 0.1%
45633	1	< 0.1%
45631	1	< 0.1%
45630	1	< 0.1%
45626	1	< 0.1%
45625	1	< 0.1%
45623	1	< 0.1%
45617	1	< 0.1%

title
Text

Distinct	10352
Distinct (%)	93.0%
Missing	0
Missing (%)	0.0%
Memory size	87.1 KiB



Length

Max length	254
Median length	141
Mean length	35.749348
Min length	2

Characters and Unicode

Total characters	397783	
Distinct characters	296	
Distinct categories	17 (https://en.wikipedia.org/wiki/Unicode_character_property#General_Category)	?
Distinct scripts	8 (https://en.wikipedia.org/wiki/Script_(Unicode)#List_of_scripts_in_Unicode)	?
Distinct blocks	9 (https://en.wikipedia.org/wiki/Unicode_block)	?

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

Unique

Unique	9865	?
Unique (%)	88.7%	

Sample

1st row	Brown's Star Atlas: Showing All The Bright Stars With Full Instructions How To Find And Use Them For Navigational Purposes And Department Of Trade Examinations.
2nd row	The Tolkien Fan's Medieval Reader
3rd row	Streetcar Suburbs: The Process of Growth in Boston 1870-1900
4th row	Patriots (The Coming Collapse)
5th row	Harry Potter and the Half-Blood Prince (Harry Potter #6)

Value	Count	Frequency (%)
the	6692	10.1%
of	3336	5.0%
and	1653	2.5%
a	1335	2.0%
1	796	1.2%
in	778	1.2%
to	698	1.1%
	588	0.9%
2	519	0.8%
3	399	0.6%
Other values (12076)	49535	74.7%



Most occurring characters

Value	Count	Frequency (%)
	58892	14.8%
e	36631	9.2%
o	23592	5.9%
a	22308	5.6%
i	20615	5.2%
r	20216	5.1%
n	20032	5.0%
t	19155	4.8%
s	16700	4.2%
h	13698	3.4%
Other values (286)	145944	36.7%

Most occurring categories

Value	Count	Frequency (%)
Lowercase Letter	265634	66.8%
Space Separator	58892	14.8%
Uppercase Letter	52413	13.2%
Other Punctuation	8579	2.2%
Decimal Number	5487	1.4%
Close Punctuation	2765	0.7%
Open Punctuation	2764	0.7%
Dash Punctuation	808	0.2%
Other Letter	373	0.1%
Math Symbol	27	< 0.1%
Other values (7)	41	< 0.1%

Most frequent character per category

Other Letter

Value	Count	Frequency (%)
の	16	4.3%
夜	13	3.5%
犬	13	3.5%
師	13	3.5%
術	13	3.5%
金	13	3.5%
鋼	13	3.5%
叉	13	3.5%
碁	11	2.9%
ヒ	11	2.9%
Other values (144)	244	65.4%

Lowercase Letter

Value	Count	Frequency (%)
e	36631	13.8%
o	23592	8.9%
a	22308	8.4%
i	20615	7.8%
r	20216	7.6%
n	20032	7.5%
t	19155	7.2%
s	16700	6.3%

Value	Count	Frequency (%)
h	13698	5.2%
l	12851	4.8%
Other values (48)	59836	22.5%

Uppercase Letter

Value	Count	Frequency (%)
T	7023	13.4%
S	4510	8.6%
A	3662	7.0%
C	3562	6.8%
M	3165	6.0%
B	2677	5.1%
W	2612	5.0%
P	2599	5.0%
L	2507	4.8%
D	2490	4.8%
Other values (23)	17606	33.6%

Other Punctuation

Value	Count	Frequency (%)
:	3025	35.3%
#	2431	28.3%
,	1397	16.3%
.	709	8.3%
/	414	4.8%
&	258	3.0%
!	135	1.6%
?	70	0.8%
;	59	0.7%
"	50	0.6%
Other values (8)	31	0.4%

Decimal Number

Value	Count	Frequency (%)
1	1724	31.4%
2	855	15.6%
3	645	11.8%
4	415	7.6%
0	396	7.2%
9	371	6.8%

Value	Count	Frequency (%)
5	347	6.3%
6	282	5.1%
8	233	4.2%
7	219	4.0%

Dash Punctuation

Value	Count	Frequency (%)
-	773	95.7%
—	18	2.2%
—	15	1.9%
—	2	0.2%

Nonspacing Mark

Value	Count	Frequency (%)
,	3	50.0%
..	2	33.3%
˘	1	16.7%

Close Punctuation

Value	Count	Frequency (%)
)	2756	99.7%
]	9	0.3%

Open Punctuation

Value	Count	Frequency (%)
(2755	99.7%
[9	0.3%

Math Symbol

Value	Count	Frequency (%)
+	18	66.7%
=	9	33.3%

Final Punctuation

Value	Count	Frequency (%)
,	12	92.3%
”	1	7.7%

Other Number

Value	Count	Frequency (%)
½	11	91.7%

Value	Count	Frequency (%)
2	1	8.3%

Initial Punctuation

Value	Count	Frequency (%)
'	1	50.0%
"	1	50.0%

Space Separator

Value	Count	Frequency (%)
	58892	100.0%

Modifier Letter

Value	Count	Frequency (%)
—	3	100.0%

Currency Symbol

Value	Count	Frequency (%)
\$	3	100.0%

Connector Punctuation

Value	Count	Frequency (%)
—	2	100.0%

Most occurring scripts

Value	Count	Frequency (%)
Latin	318031	80.0%
Common	79357	19.9%
Han	232	0.1%
Katakana	72	< 0.1%
Hiragana	61	< 0.1%
Cyrillic	16	< 0.1%
Arabic	8	< 0.1%
Inherited	6	< 0.1%

Most frequent character per script

Han

Value	Count	Frequency (%)
夜	13	5.6%
犬	13	5.6%
師	13	5.6%
術	13	5.6%
金	13	5.6%
鋼	13	5.6%
叉	13	5.6%
碁	11	4.7%
之	8	3.4%
鍊	8	3.4%
Other values (90)	114	49.1%

Latin

Value	Count	Frequency (%)
e	36631	11.5%
o	23592	7.4%
a	22308	7.0%
i	20615	6.5%
r	20216	6.4%
n	20032	6.3%
t	19155	6.0%
s	16700	5.3%
h	13698	4.3%
l	12851	4.0%
Other values (73)	112233	35.3%

Common

Value	Count	Frequency (%)
	58892	74.2%
:	3025	3.8%
)	2756	3.5%
(2755	3.5%
#	2431	3.1%
1	1724	2.2%
,	1397	1.8%
2	855	1.1%
-	773	1.0%
.	709	0.9%
Other values (38)	4040	5.1%

Hiragana

Value	Count	Frequency (%)
の	16	26.2%
ん	5	8.2%
か	3	4.9%
る	3	4.9%
て	3	4.9%
き	3	4.9%
た	3	4.9%
ら	3	4.9%
な	2	3.3%
ぜ	2	3.3%
Other values (14)	18	29.5%

Katakana

Value	Count	Frequency (%)
ヒ	11	15.3%
ル	11	15.3%
カ	11	15.3%
ツ	5	6.9%
サ	5	6.9%
バ	5	6.9%
リ	2	2.8%
ト	2	2.8%
ス	2	2.8%
ヤ	2	2.8%

Value	Count	Frequency (%)
Other values (14)	16	22.2%

Cyrillic

Value	Count	Frequency (%)
а	4	25.0%
р	3	18.8%
М	2	12.5%
т	2	12.5%
и	2	12.5%
с	1	6.2%
е	1	6.2%
г	1	6.2%

Arabic

Value	Count	Frequency (%)
ع	2	25.0%
ج	2	25.0%
ح	1	12.5%
ا	1	12.5%
ن	1	12.5%
د	1	12.5%

Inherited

Value	Count	Frequency (%)
’	3	50.0%
”	2	33.3%
”	1	16.7%

Most occurring blocks

Value	Count	Frequency (%)
ASCII	397016	99.8%
None	319	0.1%
CJK	232	0.1%
Katakana	75	< 0.1%
Hiragana	61	< 0.1%
Punctuation	50	< 0.1%
Cyrillic	16	< 0.1%
Arabic	8	< 0.1%
Diacriticals	6	< 0.1%

Most frequent character per block

ASCII

Value	Count	Frequency (%)
	58892	14.8%
e	36631	9.2%
o	23592	5.9%
a	22308	5.6%
i	20615	5.2%
r	20216	5.1%
n	20032	5.0%
t	19155	4.8%
s	16700	4.2%
h	13698	3.5%
Other values (75)	145177	36.6%

None

Value	Count	Frequency (%)
é	62	19.4%
á	35	11.0%
ó	31	9.7%
í	28	8.8%
ä	19	6.0%
ü	17	5.3%
ñ	14	4.4%
½	11	3.4%
`	11	3.4%
è	11	3.4%

Value	Count	Frequency (%)
Other values (28)	80	25.1%

Punctuation

Value	Count	Frequency (%)
—	18	36.0%
—	15	30.0%
,	12	24.0%
—	2	4.0%
,	1	2.0%
”	1	2.0%
“	1	2.0%

Hiragana

Value	Count	Frequency (%)
の	16	26.2%
ん	5	8.2%
か	3	4.9%
る	3	4.9%
て	3	4.9%
き	3	4.9%
た	3	4.9%
ら	3	4.9%
な	2	3.3%
ぜ	2	3.3%
Other values (14)	18	29.5%

CJK

Value	Count	Frequency (%)
夜	13	5.6%
犬	13	5.6%
師	13	5.6%
術	13	5.6%
金	13	5.6%
鋼	13	5.6%
叉	13	5.6%
碁	11	4.7%
之	8	3.4%
鍊	8	3.4%
Other values (90)	114	49.1%

Katakana

Value	Count	Frequency (%)
ヒ	11	14.7%
ル	11	14.7%
カ	11	14.7%
ツ	5	6.7%
サ	5	6.7%
バ	5	6.7%
ー	3	4.0%
リ	2	2.7%
ト	2	2.7%
ス	2	2.7%
Other values (15)	18	24.0%

Cyrillic

Value	Count	Frequency (%)
а	4	25.0%
р	3	18.8%
М	2	12.5%
т	2	12.5%
и	2	12.5%
с	1	6.2%
е	1	6.2%
г	1	6.2%

Diacriticals

Value	Count	Frequency (%)
‘	3	50.0%
..	2	33.3%
˘	1	16.7%

Arabic

Value	Count	Frequency (%)
ء	2	25.0%
ﻝ	2	25.0%
ح	1	12.5%
ا	1	12.5%
ن	1	12.5%
د	1	12.5%

authors
Text

Distinct	6643
Distinct (%)	59.7%
Missing	0
Missing (%)	0.0%
Memory size	87.1 KiB



Length

Max length	750
Median length	372
Mean length	24.724005
Min length	3

Characters and Unicode

Total characters	275104	
Distinct characters	267	
Distinct categories	11 (https://en.wikipedia.org/wiki/Unicode_character_property#General_Category)	?
Distinct scripts	8 (https://en.wikipedia.org/wiki/Script_(Unicode)#List_of_scripts_in_Unicode)	?
Distinct blocks	8 (https://en.wikipedia.org/wiki/Unicode_block)	?

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

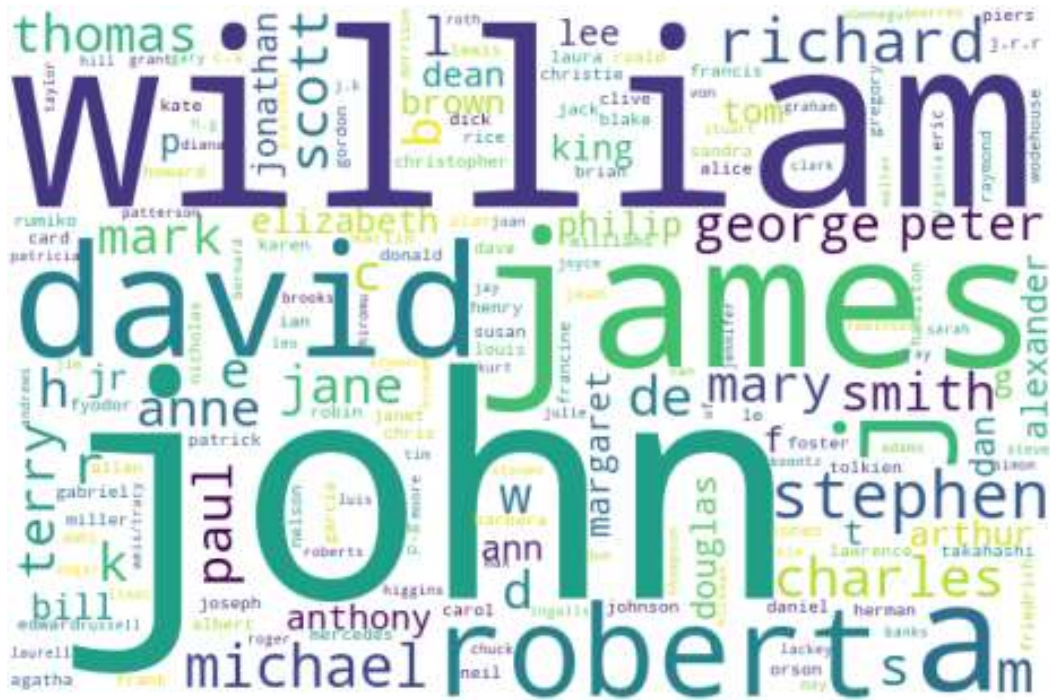
Unique

Unique	5282	?
Unique (%)	47.5%	

Sample

1st row	Brown Son & Ferguson
2nd row	David E. Smith (Turgon of TheOneRing.net one of the founding members of this Tolkien website)/Verlyn Flieger/Turgon (=David E. Smith)
3rd row	Sam Bass Warner Jr./Sam B. Warner
4th row	James Wesley Rawles
5th row	J.K. Rowling/Mary GrandPré

Value	Count	Frequency (%)
john	279	0.8%
william	262	0.8%
james	228	0.7%
david	203	0.6%
a	191	0.6%
robert	185	0.5%
j	181	0.5%
stephen	176	0.5%
richard	157	0.5%
m	155	0.5%
Other values (12644)	31795	94.0%



Most occurring characters

Value	Count	Frequency (%)
e	23758	8.6%
	23425	8.5%
a	22547	8.2%
r	18119	6.6%
n	17426	6.3%
i	15677	5.7%
o	14415	5.2%
l	13273	4.8%
s	9822	3.6%
t	9527	3.5%
Other values (257)	107115	38.9%

Most occurring categories

Value	Count	Frequency (%)
Lowercase Letter	195795	71.2%
Uppercase Letter	43440	15.8%
Space Separator	23425	8.5%
Other Punctuation	11849	4.3%
Other Letter	378	0.1%
Dash Punctuation	200	0.1%
Close Punctuation	5	< 0.1%
Open Punctuation	5	< 0.1%
Decimal Number	4	< 0.1%
Format	2	< 0.1%

Most frequent character per category

Other Letter

Value	Count	Frequency (%)
ا	25	6.6%
ر	22	5.8%
ن	19	5.0%
ل	18	4.8%
ب	15	4.0%
م	13	3.4%
ج	12	3.2%
川	9	2.4%
ي	9	2.4%
方	8	2.1%
Other values (99)	228	60.3%

Lowercase Letter

Value	Count	Frequency (%)
e	23758	12.1%
a	22547	11.5%
r	18119	9.3%
n	17426	8.9%
i	15677	8.0%
o	14415	7.4%
l	13273	6.8%
s	9822	5.0%
t	9527	4.9%

Value	Count	Frequency (%)
h	7628	3.9%
Other values (86)	43603	22.3%

Uppercase Letter

Value	Count	Frequency (%)
M	3731	8.6%
S	3497	8.1%
J	3286	7.6%
C	3074	7.1%
R	2655	6.1%
A	2611	6.0%
B	2520	5.8%
D	2490	5.7%
H	2232	5.1%
P	2200	5.1%
Other values (37)	15144	34.9%

Other Punctuation

Value	Count	Frequency (%)
/	8117	68.5%
.	3577	30.2%
,	148	1.2%
!	4	< 0.1%
"	2	< 0.1%
&	1	< 0.1%

Decimal Number

Value	Count	Frequency (%)
9	2	50.0%
1	1	25.0%
2	1	25.0%

Space Separator

Value	Count	Frequency (%)
	23425	100.0%

Dash Punctuation

Value	Count	Frequency (%)
-	200	100.0%

Close Punctuation

Value	Count	Frequency (%)
)	5	100.0%

Open Punctuation

Value	Count	Frequency (%)
(5	100.0%

Format

Value	Count	Frequency (%)
	2	100.0%

Math Symbol

Value	Count	Frequency (%)
=	1	100.0%

Most occurring scripts

Value	Count	Frequency (%)
Latin	239152	86.9%
Common	35489	12.9%
Arabic	187	0.1%
Han	173	0.1%
Greek	53	< 0.1%
Cyrillic	30	< 0.1%
Hiragana	18	< 0.1%
Inherited	2	< 0.1%

Most frequent character per script

Latin

Value	Count	Frequency (%)
e	23758	9.9%
a	22547	9.4%
r	18119	7.6%
n	17426	7.3%
i	15677	6.6%
o	14415	6.0%
l	13273	5.6%
s	9822	4.1%
t	9527	4.0%
h	7628	3.2%
Other values (88)	86960	36.4%

Han

Value	Count	Frequency (%)
川	9	5.2%
方	8	4.6%
荒	8	4.6%
二	8	4.6%
郁	8	4.6%
仁	8	4.6%
弘	8	4.6%
伊	8	4.6%
藤	8	4.6%
潤	8	4.6%
Other values (56)	92	53.2%

Arabic

Value	Count	Frequency (%)
ا	25	13.4%
ر	22	11.8%
ن	19	10.2%
ل	18	9.6%
ب	15	8.0%
م	13	7.0%
ح	12	6.4%
ي	9	4.8%
ى	7	3.7%
خ	6	3.2%
Other values (19)	41	21.9%

Greek

Value	Count	Frequency (%)
ο	7	13.2%
α	5	9.4%
υ	4	7.5%
ς	4	7.5%
λ	4	7.5%
ί	3	5.7%
ι	3	5.7%
κ	2	3.8%
τ	2	3.8%
π	2	3.8%
Other values (17)	17	32.1%

Cyrillic

Value	Count	Frequency (%)
а	5	16.7%
л	4	13.3%
и	3	10.0%
н	2	6.7%
ο	2	6.7%
в	2	6.7%
А	1	3.3%
В	1	3.3%
ь	1	3.3%
е	1	3.3%

Value	Count	Frequency (%)
Other values (8)	8	26.7%

Common

Value	Count	Frequency (%)
	23425	66.0%
/	8117	22.9%
.	3577	10.1%
-	200	0.6%
,	148	0.4%
)	5	< 0.1%
(5	< 0.1%
!	4	< 0.1%
9	2	< 0.1%
"	2	< 0.1%
Other values (4)	4	< 0.1%

Hiragana

Value	Count	Frequency (%)
ぎ	2	11.1%
た	2	11.1%
し	2	11.1%
か	2	11.1%
ぐ	1	5.6%
つ	1	5.6%
み	1	5.6%
ず	1	5.6%
あ	1	5.6%
ゆ	1	5.6%
Other values (4)	4	22.2%

Inherited

Value	Count	Frequency (%)
	2	100.0%

Most occurring blocks

Value	Count	Frequency (%)
ASCII	274080	99.6%
None	613	0.2%
Arabic	187	0.1%
CJK	173	0.1%
Cyrillic	30	< 0.1%
Hiragana	18	< 0.1%
Punctuation	2	< 0.1%
Latin Ext Additional	1	< 0.1%

Most frequent character per block

ASCII

Value	Count	Frequency (%)
e	23758	8.7%
	23425	8.5%
a	22547	8.2%
r	18119	6.6%
n	17426	6.4%
i	15677	5.7%
o	14415	5.3%
l	13273	4.8%
s	9822	3.6%
t	9527	3.5%
Other values (56)	106091	38.7%

None

Value	Count	Frequency (%)
é	115	18.8%
í	85	13.9%
á	57	9.3%
õ	45	7.3%
ó	34	5.5%
ë	20	3.3%
è	20	3.3%
ü	19	3.1%
ł	17	2.8%
ĩ	15	2.4%
Other values (62)	186	30.3%

Arabic

Value	Count	Frequency (%)
ا	25	13.4%
ر	22	11.8%
ن	19	10.2%
ل	18	9.6%
ب	15	8.0%
م	13	7.0%
ج	12	6.4%
ي	9	4.8%
ى	7	3.7%
خ	6	3.2%
Other values (19)	41	21.9%

CJK

Value	Count	Frequency (%)
川	9	5.2%
方	8	4.6%
荒	8	4.6%
二	8	4.6%
郁	8	4.6%
仁	8	4.6%
弘	8	4.6%
伊	8	4.6%
藤	8	4.6%
潤	8	4.6%
Other values (56)	92	53.2%

Cyrillic

Value	Count	Frequency (%)
а	5	16.7%
л	4	13.3%
и	3	10.0%
н	2	6.7%
о	2	6.7%
в	2	6.7%
А	1	3.3%
В	1	3.3%
ь	1	3.3%
е	1	3.3%

Value	Count	Frequency (%)
Other values (8)	8	26.7%

Hiragana

Value	Count	Frequency (%)
き	2	11.1%
た	2	11.1%
し	2	11.1%
か	2	11.1%
ぐ	1	5.6%
つ	1	5.6%
み	1	5.6%
ず	1	5.6%
あ	1	5.6%
ゆ	1	5.6%
Other values (4)	4	22.2%

Punctuation

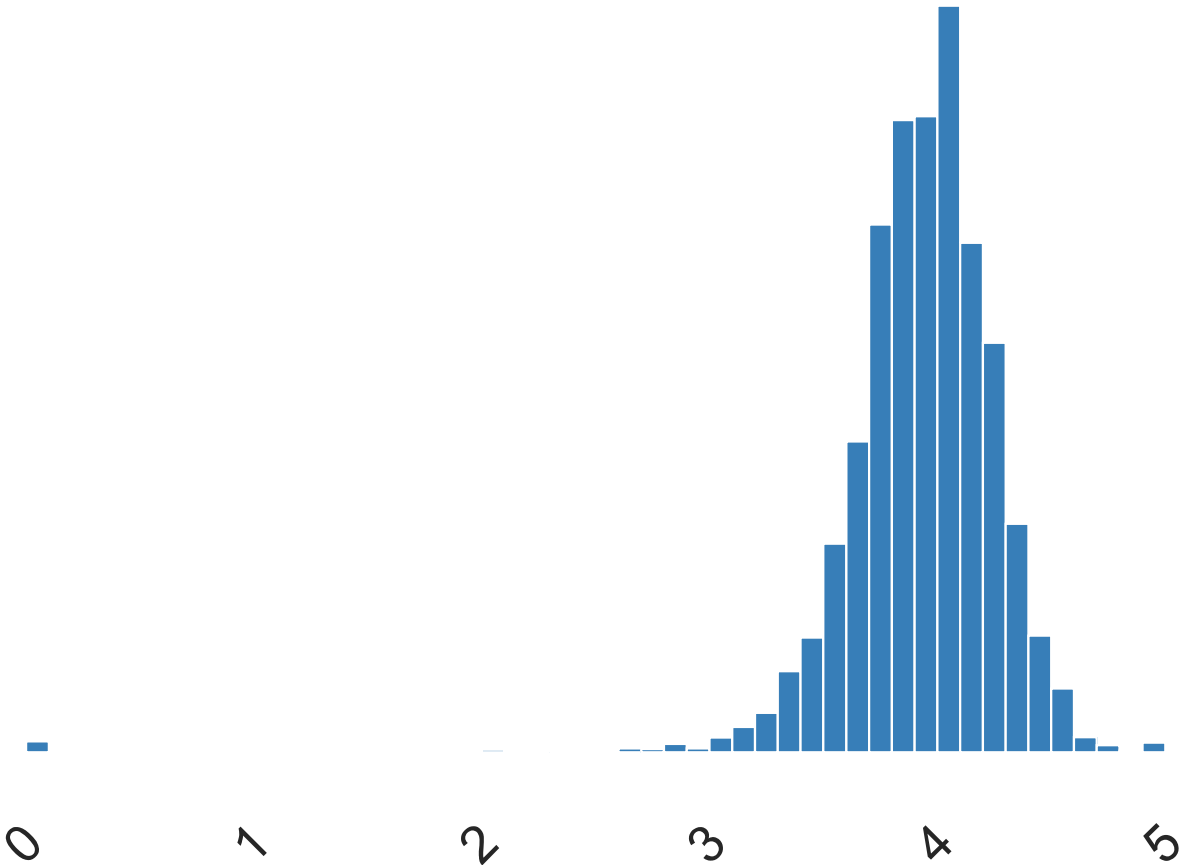
Value	Count	Frequency (%)
	2	100.0%

Latin Ext Additional

Value	Count	Frequency (%)
ê	1	100.0%

average_rating
Real number (R)

Distinct	209
Distinct (%)	1.9%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	3.9336308
Minimum	0
Maximum	5
Zeros	26
Zeros (%)	0.2%
Negative	0
Negative (%)	0.0%
Memory size	87.1 KiB

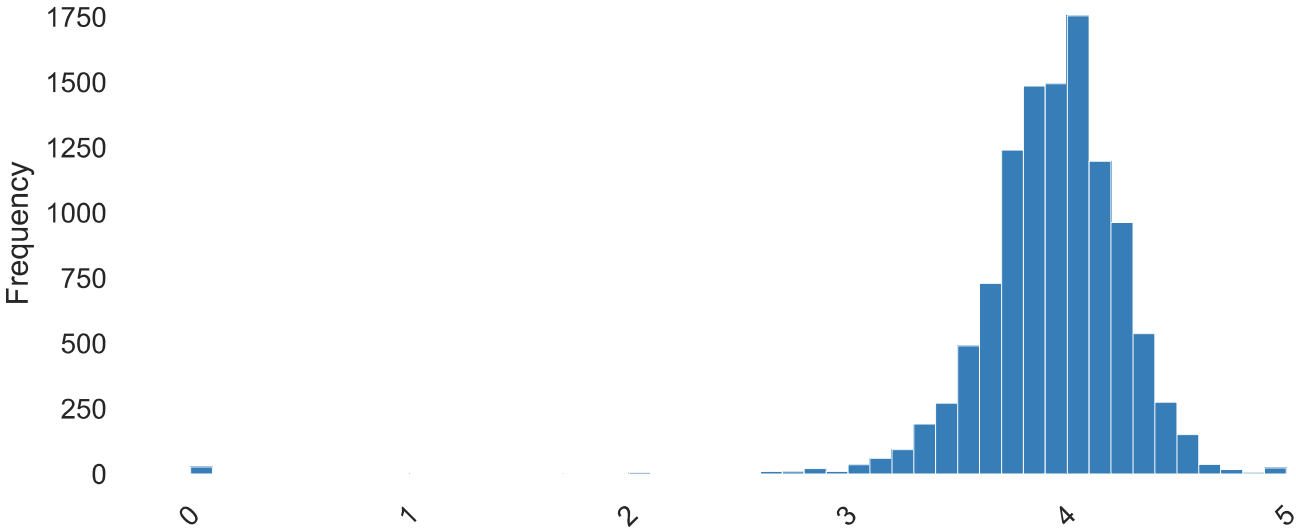


Quantile statistics

Minimum	0
5-th percentile	3.44
Q1	3.77
median	3.96
Q3	4.135
95-th percentile	4.38
Maximum	5
Range	5
Interquartile range (IQR)	0.365

Descriptive statistics

Standard deviation	0.35244503
Coefficient of variation (CV)	0.089597893
Kurtosis	36.721777
Mean	3.9336308
Median Absolute Deviation (MAD)	0.18
Skewness	-3.6383114
Sum	43769.51
Variance	0.1242175
Monotonicity	Not monotonic



Histogram with fixed size bins (bins=50)

Value	Count	Frequency (%)
4	219	2.0%
3.96	195	1.8%
4.02	178	1.6%
3.94	176	1.6%
4.07	172	1.5%
3.92	168	1.5%
3.93	168	1.5%
4.05	168	1.5%
3.83	166	1.5%
3.89	166	1.5%
Other values (199)	9351	84.0%

Value	Count	Frequency (%)
0	26	0.2%
1	2	< 0.1%
1.67	1	< 0.1%
2	6	0.1%
2.33	1	< 0.1%
2.4	1	< 0.1%
2.5	1	< 0.1%
2.55	1	< 0.1%
2.61	1	< 0.1%
2.62	3	< 0.1%

Value	Count	Frequency (%)
5	22	0.2%
4.91	1	< 0.1%
4.88	1	< 0.1%
4.86	1	< 0.1%
4.83	1	< 0.1%
4.82	1	< 0.1%
4.8	1	< 0.1%
4.78	2	< 0.1%
4.76	1	< 0.1%
4.75	2	< 0.1%

