

Overview

Brought to you by YData (https://ydata.ai/?utm_source=opensource&utm_medium=ydataprofiling&utm_campaign=report)

Dataset statistics

Number of variables	10
Number of observations	212404
Missing cells	504645
Missing cells (%)	23.8%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	324.0 MiB
Average record size in memory	1.6 KiB

Variable types

Text	6
URL	3
Numeric	1

Alerts

description has 68442 (32.2%) missing values	Missing
authors has 31413 (14.8%) missing values	Missing
image has 52075 (24.5%) missing values	Missing
previewLink has 23836 (11.2%) missing values	Missing
publisher has 75886 (35.7%) missing values	Missing
publishedDate has 25305 (11.9%) missing values	Missing
infoLink has 23836 (11.2%) missing values	Missing
categories has 41199 (19.4%) missing values	Missing
ratingsCount has 162652 (76.6%) missing values	Missing

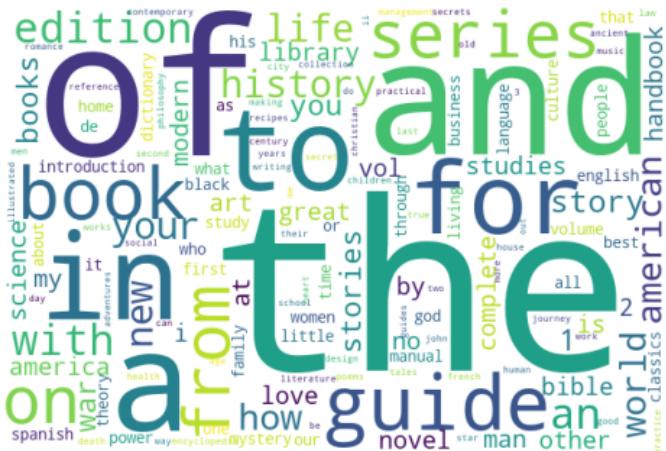
Reproduction

Analysis started	2024-08-22 15:41:28.100875
Analysis finished	2024-08-22 15:42:56.972868
Duration	1 minute and 28.87 seconds
Software version	ydata-profiling vv4.9.0 (https://github.com/ydataai/ydata-profiling)
Download configuration	config.json (data:text/plain;charset=utf-8,%7B%22title%22%3A%20%22Books%20Data%20Profiling%20Report%22%7D)

Variables

Select Columns

Title	
Text	
<hr/>	
Distinct	212403
Distinct (%)	100.0%
Missing	1
Missing (%)	< 0.1%
Memory size	21.0 MiB



Length

Max length	445
Median length	223
Mean length	46.523703
Min length	1

Characters and Unicode

Total characters	9881774	
Distinct characters	93	
Distinct categories	12	?
	(https://en.wikipedia.org/wiki/Unicode_character_property#General_Category)	
Distinct scripts	2	?
	(https://en.wikipedia.org/wiki/Script_(Unicode)#List_of_scripts_in_Unicode)	
Distinct blocks	1	?
	(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.

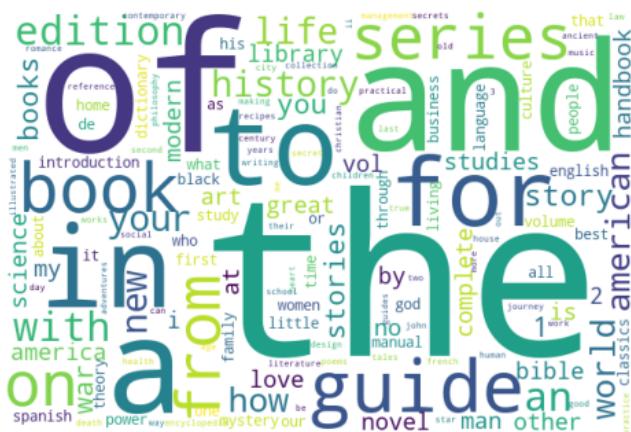
Unique

Unique	212403	?
Unique (%)	100.0%	

Sample

1st row	Its Only Art If Its Well Hung!
2nd row	Dr. Seuss: American Icon
3rd row	Wonderful Worship in Smaller Churches
4th row	Whispers of the Wicked Saints
5th row	Nation Dance: Religion, Identity and Cultural Difference in the Caribbean

Value	Count	Frequency (%)
the	118163	7.6%
of	70541	4.6%
and	48490	3.1%
a	36671	2.4%
in	24918	1.6%
to	24162	1.6%
	17412	1.1%
for	16289	1.1%
guide	9640	0.6%
book	8717	0.6%
Other values (88463)	1170519	75.7%



Most occurring characters

Value	Count	Frequency (%)
	1333119	13.5%
e	861518	8.7%
o	614340	6.2%
i	590939	6.0%
a	565119	5.7%
n	549807	5.6%
t	514869	5.2%
r	511609	5.2%
s	438268	4.4%
l	306301	3.1%
Other values (83)	3595885	36.4%

Most occurring categories

Value	Count	Frequency (%)
Lowercase Letter	6839570	69.2%
Space Separator	1333119	13.5%
Uppercase Letter	1270039	12.9%
Other Punctuation	203981	2.1%
Decimal Number	97716	1.0%
Open Punctuation	54847	0.6%
Close Punctuation	54777	0.6%
Dash Punctuation	26926	0.3%
Math Symbol	645	< 0.1%
Currency Symbol	115	< 0.1%
Other values (2)	39	< 0.1%

Most frequent character per category

Lowercase Letter

Value	Count	Frequency (%)
e	861518	12.6%
o	614340	9.0%
i	590939	8.6%
a	565119	8.3%
n	549807	8.0%
t	514869	7.5%

Value	Count	Frequency (%)
r	511609	7.5%
s	438268	6.4%
l	306301	4.5%
h	280823	4.1%
Other values (16)	1605977	23.5%

Uppercase Letter

Value	Count	Frequency (%)
T	132179	10.4%
S	115584	9.1%
A	106441	8.4%
C	95658	7.5%
M	71398	5.6%
P	70539	5.6%
B	63938	5.0%
E	59876	4.7%
L	52759	4.2%
W	52400	4.1%
Other values (16)	449267	35.4%

Other Punctuation

Value	Count	Frequency (%)
:	83699	41.0%
,	48275	23.7%

Value	Count	Frequency (%)
'	27618	13.5%
.	18906	9.3%
&	7776	3.8%
;	4469	2.2%
/	3824	1.9%
!	3291	1.6%
?	2132	1.0%
"	1886	0.9%
Other values (5)	2105	1.0%

Decimal Number

Value	Count	Frequency (%)
1	22294	22.8%
0	17230	17.6%
2	12235	12.5%
9	10829	11.1%
3	6618	6.8%
5	6535	6.7%
8	6169	6.3%
4	6032	6.2%
6	5116	5.2%
7	4658	4.8%

Math Symbol

Value	Count	Frequency (%)
+	515	79.8%
=	94	14.6%
~	27	4.2%
	9	1.4%

Open Punctuation

Value	Count	Frequency (%)
(54159	98.7%
[682	1.2%
{	6	< 0.1%

Close Punctuation

Value	Count	Frequency (%)
)	54140	98.8%
]	632	1.2%
}	5	< 0.1%

Modifier Symbol

Value	Count	Frequency (%)
'	29	93.5%
^	2	6.5%

Space Separator

Value	Count	Frequency (%)
	1333119	100.0%

Dash Punctuation

Value	Count	Frequency (%)
-	26926	100.0%

Currency Symbol

Value	Count	Frequency (%)
\$	115	100.0%

Connector Punctuation

Value	Count	Frequency (%)
-	8	100.0%

Most occurring scripts

Value	Count	Frequency (%)
Latin	8109609	82.1%
Common	1772165	17.9%

Most frequent character per script

Latin

Value	Count	Frequency (%)
e	861518	10.6%
o	614340	7.6%
i	590939	7.3%
a	565119	7.0%
n	549807	6.8%
t	514869	6.3%
r	511609	6.3%
s	438268	5.4%
l	306301	3.8%
h	280823	3.5%
Other values (42)	2876016	35.5%

Common

Value	Count	Frequency (%)
	1333119	75.2%

Value	Count	Frequency (%)
:	83699	4.7%
(54159	3.1%
)	54140	3.1%
,	48275	2.7%
'	27618	1.6%
-	26926	1.5%
1	22294	1.3%
.	18906	1.1%
0	17230	1.0%
Other values (31)	85799	4.8%

Most occurring blocks

Value	Count	Frequency (%)
ASCII	9881774	100.0%

Most frequent character per block

ASCII

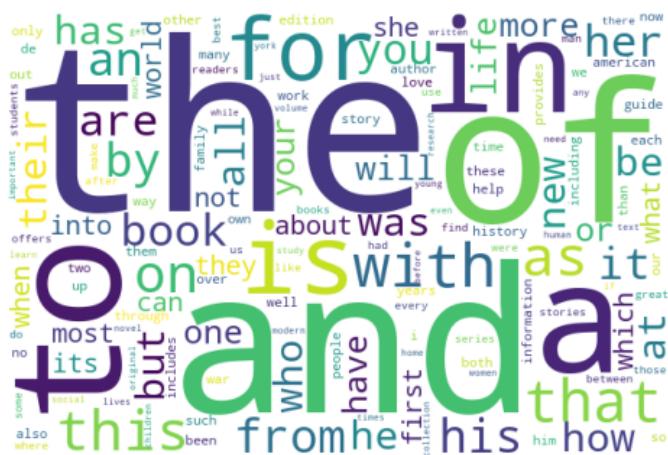
Value	Count	Frequency (%)
	1333119	13.5%
e	861518	8.7%
o	614340	6.2%
i	590939	6.0%
a	565119	5.7%
n	549807	5.6%
t	514869	5.2%
r	511609	5.2%
s	438268	4.4%
l	306301	3.1%
Other values (83)	3595885	36.4%

description

Text

MISSING

Distinct	133226
Distinct (%)	92.5%
Missing	68442
Missing (%)	32.2%
Memory size	156.9 MiB



Length

Max length	26092
Median length	3236
Mean length	659.9388
Min length	1

Characters and Unicode

Total characters	95006110	
Distinct characters	1585	
Distinct categories	24	?
	(https://en.wikipedia.org/wiki/Unicode_character_property#General_Category)	
Distinct scripts	13	?
	(https://en.wikipedia.org/wiki/Script_(Unicode)#List_of_scripts_in_Unicode)	
Distinct blocks	30	?
	(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

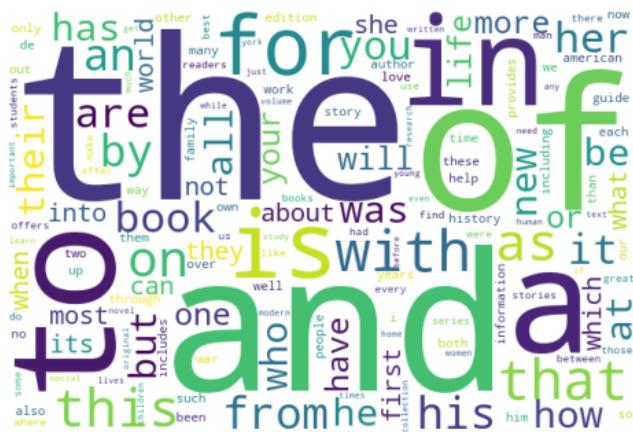
Unique	125578	?
Unique (%)	87.2%	

Sample

1st	Philip Nel takes a fascinating look into the key aspects of Seuss's career - his row poetry, politics, art, marketing, and place in the popular imagination." "Nel argues convincingly that Dr. Seuss is one of the most influential poets in America. His nonsense verse, like that of Lewis Carroll and Edward Lear, has changed language itself, giving us new words like "nerd." And Seuss's famously loopy artistic style - what Nel terms an "energetic cartoon surrealism" - has been equally important, inspiring artists like filmmaker Tim Burton and illustrator Lane Smith. --from back cover
2nd	This resource includes twelve principles in understanding small church worship, row fifteen practices for planning worship with fewer than 100 people, and suggestions for congregational study.

-
- 3rd** Julia Thomas finds her life spinning out of control after the death of her husband, **row** Richard. Julia turns to her minister for comfort when she finds herself falling for him with a passion that is forbidden by the church. Heath Sparks is a man of God who is busy taking care of his quadriplegic wife who was seriously injured in a sever car accident. In an innocent effort to reach out to a lonely member of his church, Heath finds himself as the man and not the minister as Heath and Julia surrender their bodies to each other and face the wrath of God. Julia finds herself in over her head as she faces a deadly disease, the loss of her home and whispers about her wicked affair. Julia leaves the states offering her body as a living sacrifice in hopes of finding a cure while her heart remains thousands of miles away hoping to one day reunite with the man who holds it hostage. Whispers of the Wicked Saints is a once in a lifetime romance that is breath taking, defying all the rules of romance and bending the laws of love.
-
- 4th** In The Church of Christ: A Biblical Ecclesiology for Today, respected biblical **row** scholar Everett Ferguson presents a genuine biblical theology of the church. By systematically examining the New Testament's teaching on the existence, meaning, and purpose of the church, providing responsible coverage of the traditional topics in ecclesiology, and carefully grounding ecclesiology in the person and work of Christ, Ferguson unveils a comprehensive model of the church that is both biblically centered and relevant to a world on the verge of the twenty-first century.
-
- 5th** The story for children 10 and up of St. Hyacinth, the Dominican who planted the **row** Faith in Poland, Lithuania and Russia and worked many miracles. He went to Rome, where he met St. Dominic, and was one of the first to receive at his hands the habit of the newly established Order of Friars Preachers. After his novitiate he made his religious profession, and was made superior of the little band of missionaries sent to Poland to preach. Impr. 189 pgs 16 Illus, PB

Value	Count	Frequency (%)
the	906457	6.0%
and	643122	4.3%
of	586918	3.9%
to	362837	2.4%
a	358084	2.4%
in	285024	1.9%
is	153073	1.0%
for	141833	0.9%
with	121236	0.8%
that	110984	0.7%
Other values (343094)	11393232	75.6%



Most occurring characters

Value	Count	Frequency (%)
	14918838	15.7%
e	8995018	9.5%
t	6339909	6.7%
a	6050778	6.4%
i	5828551	6.1%
o	5785394	6.1%
n	5657592	6.0%
s	5207441	5.5%
r	4927917	5.2%
h	3411611	3.6%
Other values (1575)	27883061	29.3%

Most occurring categories

Value	Count	Frequency (%)
Lowercase Letter	74369533	78.3%
Space Separator	14918838	15.7%
Uppercase Letter	2740517	2.9%
Other Punctuation	2116858	2.2%
Decimal Number	362684	0.4%
Dash Punctuation	331536	0.3%
Final Punctuation	60837	0.1%
Close Punctuation	34680	< 0.1%
Open Punctuation	34447	< 0.1%
Initial Punctuation	17786	< 0.1%
Other values (14)	18394	< 0.1%

Most frequent character per category

Other Letter

Value	Count	Frequency (%)
의	143	2.5%
고	115	2.0%
마	110	1.9%
전	100	1.7%
드	98	1.7%
어	97	1.7%

Value	Count	Frequency (%)
상	91	1.6%
르	90	1.6%
두	85	1.5%
알	84	1.4%
Other values (1128)	4781	82.5%

Lowercase Letter

Value	Count	Frequency (%)
e	8995018	12.1%
t	6339909	8.5%
a	6050778	8.1%
i	5828551	7.8%
o	5785394	7.8%
n	5657592	7.6%
s	5207441	7.0%
r	4927917	6.6%
h	3411611	4.6%
l	3237434	4.4%
Other values (145)	18927888	25.5%

Uppercase Letter

Value	Count	Frequency (%)
T	285130	10.4%
A	240318	8.8%

Value	Count	Frequency (%)
S	209615	7.6%
C	182102	6.6%
I	165137	6.0%
B	144592	5.3%
M	139891	5.1%
E	127152	4.6%
W	126045	4.6%
P	123438	4.5%
Other values (72)	997097	36.4%

Other Punctuation

Value	Count	Frequency (%)
,	981402	46.4%
.	715554	33.8%
'	155945	7.4%
"	87878	4.2%
:	44906	2.1%
;	32411	1.5%
?	29667	1.4%
!	18687	0.9%
*	17467	0.8%
/	9831	0.5%
Other values (23)	23110	1.1%

Other Symbol

Value	Count	Frequency (%)
®	984	36.6%
♦	678	25.3%
™	237	8.8%
©	199	7.4%
★	133	5.0%
☆	101	3.8%
☆	60	2.2%
♥	51	1.9%
●	38	1.4%
■	32	1.2%
Other values (15)	172	6.4%

Math Symbol

Value	Count	Frequency (%)
+	1740	44.8%
-	599	15.4%
>	349	9.0%
=	298	7.7%
~	297	7.6%
<	239	6.2%
	214	5.5%
¬	56	1.4%

Value	Count	Frequency (%)
.	33	0.8%
×	11	0.3%
Other values (11)	48	1.2%

Control

Value	Count	Frequency (%)
□	123	34.8%
□	45	12.7%
□	39	11.0%
□	34	9.6%
□	24	6.8%
□	15	4.2%
□	13	3.7%
□	13	3.7%
□	10	2.8%
□	8	2.3%
Other values (11)	29	8.2%

Nonspacing Mark

Value	Count	Frequency (%)
‘	74	30.2%
ঁ	37	15.1%
ঁ	31	12.7%
ঁ	30	12.2%

Value	Count	Frequency (%)
·	17	6.9%
„	11	4.5%
..	9	3.7%
,	8	3.3%
„	7	2.9%
,	4	1.6%
Other values (11)	17	6.9%

Decimal Number

Value	Count	Frequency (%)
0	79788	22.0%
1	78682	21.7%
9	43313	11.9%
2	37344	10.3%
5	25057	6.9%
8	22504	6.2%
3	21186	5.8%
4	19797	5.5%
6	18141	5.0%
7	16872	4.7%

Open Punctuation

Value	Count	Frequency (%)
(32153	93.3%

Value	Count	Frequency (%)
[2164	6.3%
,	61	0.2%
{	37	0.1%
"	25	0.1%
[4	< 0.1%
['	2	< 0.1%
(1	< 0.1%

Modifier Symbol

Value	Count	Frequency (%)
\`	475	71.9%
'	82	12.4%
^	50	7.6%
,	32	4.8%
>	12	1.8%
..	4	0.6%
-	4	0.6%
~	2	0.3%

Letter Number

Value	Count	Frequency (%)
I	25	33.3%
II	25	33.3%
III	8	10.7%

Value	Count	Frequency (%)
IV	6	8.0%
V	4	5.3%
VI	3	4.0%
VII	2	2.7%
VIII	2	2.7%

Dash Punctuation

Value	Count	Frequency (%)
-	294077	88.7%
—	31230	9.4%
–	6089	1.8%
—	73	< 0.1%
-	34	< 0.1%
-	26	< 0.1%
—	7	< 0.1%

Modifier Letter

Value	Count	Frequency (%)
,	15	33.3%
—	12	26.7%
‘	6	13.3%
”	6	13.3%
’	3	6.7%
々	2	4.4%

Value	Count	Frequency (%)
.	1	2.2%

Close Punctuation

Value	Count	Frequency (%)
)	32486	93.7%
]	2143	6.2%
}	44	0.1%
】	4	< 0.1%
』	2	< 0.1%
)	1	< 0.1%

Currency Symbol

Value	Count	Frequency (%)
\$	1144	81.3%
€	168	11.9%
£	55	3.9%
¢	24	1.7%
¥	14	1.0%
¤	2	0.1%

Initial Punctuation

Value	Count	Frequency (%)
“	15616	87.8%
‘	2030	11.4%

Value	Count	Frequency (%)
«	128	0.7%
‹	11	0.1%
”	1	< 0.1%

Format

Value	Count	Frequency (%)
	179	68.8%
	42	16.2%
	37	14.2%
—	1	0.4%
—	1	0.4%

Spacing Mark

Value	Count	Frequency (%)
◦†	49	47.6%
◦‡	21	20.4%
◦◦	20	19.4%
◦‡	12	11.7%
◦:	1	1.0%

Final Punctuation

Value	Count	Frequency (%)
,	44991	74.0%
”	15717	25.8%

Value	Count	Frequency (%)
»	128	0.2%
>	1	< 0.1%

Other Number

Value	Count	Frequency (%)
$\frac{3}{4}$	92	81.4%
$\frac{1}{2}$	11	9.7%
1	8	7.1%
3	2	1.8%

Private Use

Value	Count	Frequency (%)
□	27	56.2%
□	12	25.0%
□	8	16.7%
□	1	2.1%

Space Separator

Value	Count	Frequency (%)
	14918838	100.0%

Connector Punctuation

Value	Count	Frequency (%)
-	2721	100.0%

Most occurring scripts

Value	Count	Frequency (%)
Latin	77109104	81.2%
Common	17889793	18.8%
Hangul	3774	< 0.1%
Han	1459	< 0.1%
Cyrillic	1011	< 0.1%
Devanagari	537	< 0.1%
Hiragana	160	< 0.1%
Inherited	140	< 0.1%
Katakana	67	< 0.1%
Unknown	48	< 0.1%
Other values (3)	17	< 0.1%

Most frequent character per script

Han

Value	Count	Frequency (%)
的	49	3.4%
文	33	2.3%
作	21	1.4%
以	18	1.2%
通	17	1.2%
和	15	1.0%

Value	Count	Frequency (%)
本	14	1.0%
有	13	0.9%
人	13	0.9%
用	12	0.8%
Other values (577)	1254	85.9%

Hangul

Value	Count	Frequency (%)
의	143	3.8%
고	115	3.0%
마	110	2.9%
전	100	2.6%
드	98	2.6%
어	97	2.6%
상	91	2.4%
르	90	2.4%
뒤	85	2.3%
알	84	2.2%
Other values (429)	2761	73.2%

Latin

Value	Count	Frequency (%)
e	8995018	11.7%
t	6339909	8.2%

Value	Count	Frequency (%)
a	6050778	7.8%
i	5828551	7.6%
o	5785394	7.5%
n	5657592	7.3%
s	5207441	6.8%
r	4927917	6.4%
h	3411611	4.4%
l	3237434	4.2%
Other values (184)	21667459	28.1%

Common

Value	Count	Frequency (%)
,	14918838	83.4%
.	981402	5.5%
-	715554	4.0%
'	294077	1.6%
'	155945	0.9%
"	87878	0.5%
0	79788	0.4%
1	78682	0.4%
,	44991	0.3%
:	44906	0.3%
Other values (161)	487732	2.7%

Devanagari

Value	Count	Frequency (%)
ॐ	49	9.1%
क	47	8.8%
॒	37	6.9%
स	33	6.1%
॒	30	5.6%
न	27	5.0%
र	23	4.3%
ह	21	3.9%
॒	21	3.9%
त	21	3.9%
Other values (41)	228	42.5%

Cyrillic

Value	Count	Frequency (%)
о	101	10.0%
е	100	9.9%
а	88	8.7%
и	83	8.2%
н	67	6.6%
с	60	5.9%
т	57	5.6%
р	52	5.1%

Value	Count	Frequency (%)
в	40	4.0%
л	37	3.7%
Other values (32)	326	32.2%

Hiragana

Value	Count	Frequency (%)
の	29	18.1%
を	11	6.9%
た	11	6.9%
と	10	6.2%
に	9	5.6%
し	8	5.0%
か	6	3.8%
ら	5	3.1%
る	5	3.1%
が	5	3.1%
Other values (30)	61	38.1%

Katakana

Value	Count	Frequency (%)
ス	6	9.0%
ラ	5	7.5%
ル	5	7.5%
ト	4	6.0%

Value	Count	Frequency (%)
ン	4	6.0%
カ	3	4.5%
ツ	3	4.5%
ボ	3	4.5%
タ	3	4.5%
ド	3	4.5%
Other values (21)	28	41.8%

Inherited

Value	Count	Frequency (%)
,	74	52.9%
..	31	22.1%
..	9	6.4%
、	8	5.7%
,	4	2.9%
~	3	2.1%
,	3	2.1%
..	2	1.4%
..	2	1.4%
~	1	0.7%
Other values (3)	3	2.1%

Greek

Value	Count	Frequency (%)
Δ	2	14.3%
Σ	2	14.3%
μ	2	14.3%
γ	2	14.3%
π	1	7.1%
ő	1	7.1%
ε	1	7.1%
λ	1	7.1%
ο	1	7.1%
ς	1	7.1%

Unknown

Value	Count	Frequency (%)
□	27	56.2%
□	12	25.0%
□	8	16.7%
□	1	2.1%

Nko

Value	Count	Frequency (%)
Δ	1	50.0%
◦	1	50.0%

Arabic

Value	Count	Frequency (%)
—	1	100.0%

Most occurring blocks

Value	Count	Frequency (%)
ASCII	94849538	99.8%
Punctuation	125202	0.1%
None	21792	< 0.1%
Hangul	3774	< 0.1%
CJK	1454	< 0.1%
Cyrillic	1011	< 0.1%
Specials	678	< 0.1%
Math Operators	654	< 0.1%
Devanagari	546	< 0.1%
Letterlike Symbols	238	< 0.1%
Other values (20)	1223	< 0.1%

Most frequent character per block

ASCII

Value	Count	Frequency (%)
	14918838	15.7%
e	8995018	9.5%
t	6339909	6.7%
a	6050778	6.4%
i	5828551	6.1%
o	5785394	6.1%

Value	Count	Frequency (%)
n	5657592	6.0%
s	5207441	5.5%
r	4927917	5.2%
h	3411611	3.6%
Other values (87)	27726489	29.2%

Punctuation

Value	Count	Frequency (%)
,	44991	35.9%
—	31230	24.9%
"	15717	12.6%
"	15616	12.5%
•	6735	5.4%
—	6089	4.9%
...	2318	1.9%
'	2030	1.6%
'	156	0.1%
—	73	0.1%
Other values (13)	247	0.2%

None

Value	Count	Frequency (%)
é	4789	22.0%
ó	1767	8.1%

Value	Count	Frequency (%)
á	1670	7.7%
.	1601	7.3%
í	1511	6.9%
®	984	4.5%
è	576	2.6%
ñ	530	2.4%
¿	512	2.3%
â	434	2.0%
Other values (175)	7418	34.0%

Specials

Value	Count	Frequency (%)
❖	678	100.0%

Math Operators

Value	Count	Frequency (%)
-	599	91.6%
.	33	5.0%
√	10	1.5%
≠	6	0.9%
*	3	0.5%
∨	2	0.3%
≥	1	0.2%

Letterlike Symbols

Value	Count	Frequency (%)
™	237	99.6%
®	1	0.4%

Currency Symbols

Value	Count	Frequency (%)
€	168	100.0%

Hangul

Value	Count	Frequency (%)
의	143	3.8%
고	115	3.0%
마	110	2.9%
전	100	2.6%
드	98	2.6%
어	97	2.6%
상	91	2.4%
르	90	2.4%
뒤	85	2.3%
알	84	2.2%
Other values (429)	2761	73.2%

Cyrillic

Value	Count	Frequency (%)
о	101	10.0%

Value	Count	Frequency (%)
е	100	9.9%
а	88	8.7%
и	83	8.2%
н	67	6.6%
с	60	5.9%
т	57	5.6%
р	52	5.1%
в	40	4.0%
л	37	3.7%
Other values (32)	326	32.2%

Misc Symbols

Value	Count	Frequency (%)
★	101	47.2%
☆	60	28.0%
♥	51	23.8%
þ	1	0.5%
▲	1	0.5%

Diacriticals

Value	Count	Frequency (%)
'	74	69.2%
..	9	8.4%
`	8	7.5%

Value	Count	Frequency (%)
,	4	3.7%
~	3	2.8%
,	3	2.8%
..	2	1.9%
^	1	0.9%
°	1	0.9%
ˇ	1	0.9%

Devanagari

Value	Count	Frequency (%)
ॐ	49	9.0%
क	47	8.6%
०	37	6.8%
स	33	6.0%
९	30	5.5%
न	27	4.9%
र	23	4.2%
ह	21	3.8%
ी	21	3.8%
त	21	3.8%
Other values (42)	237	43.4%

CJK

Value	Count	Frequency (%)
的	49	3.4%
文	33	2.3%
作	21	1.4%
以	18	1.2%
通	17	1.2%
和	15	1.0%
本	14	1.0%
有	13	0.9%
人	13	0.9%
用	12	0.8%
Other values (574)	1249	85.9%

Geometric Shapes

Value	Count	Frequency (%)
•	38	33.0%
■	32	27.8%
▪	22	19.1%
▶	14	12.2%
◆	6	5.2%
▷	3	2.6%

VS

Value	Count	Frequency (%)
	31	93.9%

Value	Count	Frequency (%)
	2	6.1%

Hiragana

Value	Count	Frequency (%)
の	29	18.1%
を	11	6.9%
た	11	6.9%
と	10	6.2%
に	9	5.6%
し	8	5.0%
か	6	3.8%
ら	5	3.1%
る	5	3.1%
が	5	3.1%
Other values (30)	61	38.1%

Dingbats

Value	Count	Frequency (%)
✓	28	39.4%
✓	24	33.8%
⌚	8	11.3%
☆	6	8.5%
♥	3	4.2%
＊	2	2.8%

PUA

Value	Count	Frequency (%)
□	27	56.2%
□	12	25.0%
□	8	16.7%
□	1	2.1%

Number Forms

Value	Count	Frequency (%)
I	25	33.3%
II	25	33.3%
III	8	10.7%
IV	6	8.0%
V	4	5.3%
VI	3	4.0%
VII	2	2.7%
VIII	2	2.7%

Alphabetic PF

Value	Count	Frequency (%)
fi	20	69.0%
fl	9	31.0%

Modifier Letters

Value	Count	Frequency (%)
,	15	33.3%
>	12	26.7%
'	6	13.3%
"	6	13.3%
'	3	6.7%
~	2	4.4%
.	1	2.2%

Katakana

Value	Count	Frequency (%)
ー	12	14.5%
ス	6	7.2%
ヲ	5	6.0%
ル	5	6.0%
ト	4	4.8%
ン	4	4.8%
・	4	4.8%
カ	3	3.6%
ツ	3	3.6%
ボ	3	3.6%
Other values (23)	34	41.0%

Latin Ext Additional

Value	Count	Frequency (%)
ñ	10	18.2%
đ	8	14.5%
ê	6	10.9%
â	4	7.3%
ř	4	7.3%
§	4	7.3%
ť	3	5.5%
હ	2	3.6%
ě	2	3.6%
ò	2	3.6%
Other values (8)	10	18.2%

Box Drawing

Value	Count	Frequency (%)
—	7	100.0%

Arrows

Value	Count	Frequency (%)
↓	4	80.0%
→	1	20.0%

CJK Ext A

Value	Count	Frequency (%)
眺	2	66.7%

Value	Count	Frequency (%)
-------	-------	---------------

߲ 1 33.3%

Arabic

Value	Count	Frequency (%)
-------	-------	---------------

— 1 100.0%

IPA Ext

Value	Count	Frequency (%)
-------	-------	---------------

‡ 1 100.0%

NKo

Value	Count	Frequency (%)
-------	-------	---------------

߂ 1 50.0%

߂ 1 50.0%

Greek Ext

Value	Count	Frequency (%)
-------	-------	---------------

Ӧ 1 100.0%

authors

Text

MISSING

Distinct	127278
Distinct (%)	70.3%
Missing	31413
Missing (%)	14.8%
Memory size	15.3 MiB



Length

Max length	2225
Median length	874
Mean length	24.44779
Min length	5

Characters and Unicode

Total characters	4424830	
Distinct characters	656	
Distinct categories	20	?
	(https://en.wikipedia.org/wiki/Unicode_character_property#General_Category)	
Distinct scripts	12	?
	(https://en.wikipedia.org/wiki/Script_(Unicode)#List_of_scripts_in_Unicode)	
Distinct blocks	19	?
	(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	104854	?
Unique (%)	57.9%	

Sample

1st row	['Julie Strain']
2nd row	['Philip Nel']
3rd row	['David R. Ray']
4th row	['Veronica Haddon']
5th row	['Edward Long']

Value	Count	Frequency (%)
john	6906	1.2%
j	5412	1.0%
a	4870	0.9%
david	4696	0.8%
robert	4635	0.8%
m	4250	0.8%
james	4048	0.7%
william	3984	0.7%
l	3616	0.6%
r	3499	0.6%
Other values (74695)	513050	91.8%



Most occurring characters

Value	Count	Frequency (%)
'	458511	10.4%
	378003	8.5%
e	312406	7.1%
a	281944	6.4%
r	239022	5.4%
n	231132	5.2%
i	197535	4.5%
o	186594	4.2%
]	181009	4.1%
[181007	4.1%
Other values (646)	1777667	40.2%

Most occurring categories

Value	Count	Frequency (%)
Lowercase Letter	2528063	57.1%
Uppercase Letter	575357	13.0%
Other Punctuation	571341	12.9%
Space Separator	378003	8.5%
Close Punctuation	182809	4.1%
Open Punctuation	182808	4.1%
Dash Punctuation	4454	0.1%
Decimal Number	1003	< 0.1%
Other Letter	500	< 0.1%
Modifier Letter	269	< 0.1%
Other values (10)	223	< 0.1%

Most frequent character per category

Other Letter

Value	Count	Frequency (%)
편	19	3.8%
집	16	3.2%
부	16	3.2%
외	8	1.6%
子	8	1.6%
野	7	1.4%

Value	Count	Frequency (%)
山	7	1.4%
田	7	1.4%
美	5	1.0%
高	4	0.8%
Other values (299)	403	80.6%

Lowercase Letter

Value	Count	Frequency (%)
e	312406	12.4%
a	281944	11.2%
r	239022	9.5%
n	231132	9.1%
i	197535	7.8%
o	186594	7.4%
l	168398	6.7%
t	126975	5.0%
s	124855	4.9%
h	97946	3.9%
Other values (153)	561256	22.2%

Uppercase Letter

Value	Count	Frequency (%)
M	48709	8.5%
S	46483	8.1%

Value	Count	Frequency (%)
J	41535	7.2%
C	39955	6.9%
B	36420	6.3%
R	35830	6.2%
A	34739	6.0%
D	32576	5.7%
L	30659	5.3%
H	29249	5.1%
Other values (82)	199202	34.6%

Other Punctuation

Value	Count	Frequency (%)
'	458511	80.3%
.	56883	10.0%
,	51808	9.1%
"	3508	0.6%
&	300	0.1%
?	88	< 0.1%
/	63	< 0.1%
:	52	< 0.1%
;	32	< 0.1%
\	30	< 0.1%
Other values (12)	66	< 0.1%

Nonspacing Mark

Value	Count	Frequency (%)
~	38	29.0%
ؐ	36	27.5%
ؑ	13	9.9%
ؒ	13	9.9%
ؓ	4	3.1%
ؔ	3	2.3%
ؕ	3	2.3%
ؘ	3	2.3%
ؙ	3	2.3%
ؚ	2	1.5%
Other values (8)	13	9.9%

Decimal Number

Value	Count	Frequency (%)
1	254	25.3%
9	165	16.5%
8	153	15.3%
0	87	8.7%
2	72	7.2%
3	69	6.9%
6	59	5.9%
4	54	5.4%

Value	Count	Frequency (%)
7	50	5.0%
5	40	4.0%

Modifier Letter

Value	Count	Frequency (%)
,	100	37.2%
,	77	28.6%
,	69	25.7%
,	13	4.8%
—	5	1.9%
,	3	1.1%
"	1	0.4%
々	1	0.4%

Math Symbol

Value	Count	Frequency (%)
+	5	35.7%
	4	28.6%
>	1	7.1%
=	1	7.1%
/	1	7.1%
¬	1	7.1%
√	1	7.1%

Other Symbol

Value	Count	Frequency (%)
?	11	36.7%
©	11	36.7%
þ	3	10.0%
®	2	6.7%
°	2	6.7%
¡	1	3.3%

Open Punctuation

Value	Count	Frequency (%)
[181007	99.0%
(1794	1.0%
{	6	< 0.1%
,	1	< 0.1%

Close Punctuation

Value	Count	Frequency (%)
]	181009	99.0%
)	1794	1.0%
}	6	< 0.1%

Dash Punctuation

Value	Count	Frequency (%)
-	4450	99.9%
-	3	0.1%

Value	Count	Frequency (%)
–	1	< 0.1%

Final Punctuation

Value	Count	Frequency (%)
,	23	88.5%
"	3	11.5%

Currency Symbol

Value	Count	Frequency (%)
¢	4	80.0%
\$	1	20.0%

Initial Punctuation

Value	Count	Frequency (%)
"	3	75.0%
'	1	25.0%

Space Separator

Value	Count	Frequency (%)
	378003	100.0%

Connector Punctuation

Value	Count	Frequency (%)
–	7	100.0%

Modifier Symbol

Value	Count	Frequency (%)
'	3	100.0%

Spacing Mark

Value	Count	Frequency (%)
○Π	2	100.0%

Other Number

Value	Count	Frequency (%)
¾	1	100.0%

Most occurring scripts

Value	Count	Frequency (%)
Latin	3102626	70.1%
Common	1320776	29.8%
Cyrillic	773	< 0.1%
Han	323	< 0.1%
Inherited	129	< 0.1%
Hangul	83	< 0.1%
Hebrew	37	< 0.1%
Katakana	27	< 0.1%
Armenian	21	< 0.1%
Arabic	21	< 0.1%
Other values (2)	14	< 0.1%

Most frequent character per script

Han

Value	Count	Frequency (%)
子	8	2.5%
野	7	2.2%
山	7	2.2%
田	7	2.2%
美	5	1.5%
高	4	1.2%

Value	Count	Frequency (%)
大	4	1.2%
久	4	1.2%
刘	4	1.2%
会	3	0.9%
Other values (216)	270	83.6%

Latin

Value	Count	Frequency (%)
e	312406	10.1%
a	281944	9.1%
r	239022	7.7%
n	231132	7.4%
i	197535	6.4%
o	186594	6.0%
l	168398	5.4%
t	126975	4.1%
s	124855	4.0%
h	97946	3.2%
Other values (180)	1135819	36.6%

Common

Value	Count	Frequency (%)
'	458511	34.7%
	378003	28.6%

Value	Count	Frequency (%)
]	181009	13.7%
[181007	13.7%
.	56883	4.3%
,	51808	3.9%
-	4450	0.3%
"	3508	0.3%
(1794	0.1%
)	1794	0.1%
Other values (62)	2009	0.2%

Cyrillic

Value	Count	Frequency (%)
и	80	10.3%
а	68	8.8%
о	64	8.3%
л	56	7.2%
е	54	7.0%
н	45	5.8%
в	43	5.6%
р	39	5.0%
с	35	4.5%
к	31	4.0%
Other values (42)	258	33.4%

Hangul

Value	Count	Frequency (%)
편	19	22.9%
집	16	19.3%
부	16	19.3%
외	8	9.6%
진	2	2.4%
알	1	1.2%
르	1	1.2%
드	1	1.2%
상	1	1.2%
렉	1	1.2%
Other values (17)	17	20.5%

Katakana

Value	Count	Frequency (%)
ヤ	2	7.4%
ル	2	7.4%
エ	2	7.4%
ハ	2	7.4%
シ	2	7.4%
ロ	2	7.4%
マ	2	7.4%
バ	1	3.7%

Value	Count	Frequency (%)
ト	1	3.7%
ナ	1	3.7%
Other values (10)	10	37.0%

Inherited

Value	Count	Frequency (%)
~	38	29.5%
‐	36	27.9%
‐	13	10.1%
‐	13	10.1%
◦	4	3.1%
‘	3	2.3%
‘	3	2.3%
◦	3	2.3%
◦	2	1.6%
Other values (7)	11	8.5%

Hebrew

Value	Count	Frequency (%)
ל	4	10.8%
ע	4	10.8%
נ	4	10.8%
ך	4	10.8%

Value	Count	Frequency (%)
՚	3	8.1%
՞	3	8.1%
՚	3	8.1%
՚	3	8.1%
՚	2	5.4%
՚	1	2.7%
Other values (6)	6	16.2%

Armenian

Value	Count	Frequency (%)
ա	4	19.0%
ի	3	14.3%
ւ	3	14.3%
ռ	2	9.5%
կ	1	4.8%
յ	1	4.8%
ւ	1	4.8%
դ	1	4.8%
ւ	1	4.8%
ե	1	4.8%
Other values (3)	3	14.3%

Arabic

Value	Count	Frequency (%)
ஃ	4	19.0%
।	3	14.3%
ஃ	2	9.5%
ஃ	1	4.8%
ஃ	1	4.8%
ஃ	1	4.8%
ڦ	1	4.8%
Other values (2)	2	9.5%

Tamil

Value	Count	Frequency (%)
ஃ	2	22.2%
ஃ	2	22.2%
ஃ	2	22.2%
ஃ	1	11.1%
ஃ	1	11.1%
ஃ	1	11.1%

Hiragana

Value	Count	Frequency (%)
い	1	20.0%

Value	Count	Frequency (%)
あ	1	20.0%
め	1	20.0%
ろ	1	20.0%
ひ	1	20.0%

Most occurring blocks

Value	Count	Frequency (%)
ASCII	4418102	99.8%
None	4730	0.1%
Cyrillic	773	< 0.1%
CJK	322	< 0.1%
Modifier Letters	263	< 0.1%
Latin Ext Additional	244	< 0.1%
Hangul	83	< 0.1%
Half Marks	74	< 0.1%
Diacriticals	55	< 0.1%
Punctuation	41	< 0.1%
Other values (9)	143	< 0.1%

Most frequent character per block

ASCII

Value	Count	Frequency (%)
'	458511	10.4%
	378003	8.6%
e	312406	7.1%
a	281944	6.4%
r	239022	5.4%
n	231132	5.2%

Value	Count	Frequency (%)
i	197535	4.5%
o	186594	4.2%
]	181009	4.1%
[181007	4.1%
Other values (80)	1770939	40.1%

None

Value	Count	Frequency (%)
é	1185	25.1%
á	383	8.1%
í	322	6.8%
ü	270	5.7%
ö	266	5.6%
ã	221	4.7%
í	169	3.6%
è	153	3.2%
ó	147	3.1%
ö	122	2.6%
Other values (106)	1492	31.5%

Modifier Letters

Value	Count	Frequency (%)
'	100	38.0%
,	77	29.3%

Value	Count	Frequency (%)
'	69	26.2%
.	13	4.9%
,	3	1.1%
"	1	0.4%

Cyrillic

Value	Count	Frequency (%)
и	80	10.3%
а	68	8.8%
о	64	8.3%
л	56	7.2%
е	54	7.0%
н	45	5.8%
в	43	5.6%
р	39	5.0%
с	35	4.5%
к	31	4.0%
Other values (42)	258	33.4%

Latin Ext Additional

Value	Count	Frequency (%)
њ	67	27.5%
њ	32	13.1%
њ	31	12.7%

Value	Count	Frequency (%)
ł	19	7.8%
ń	9	3.7%
ś	9	3.7%
ł	8	3.3%
đ	7	2.9%
ż	7	2.9%
Ş	6	2.5%
Other values (24)	49	20.1%

Half Marks

Value	Count	Frequency (%)
~	38	51.4%
~	36	48.6%

Punctuation

Value	Count	Frequency (%)
,	23	56.1%
“	3	7.3%
”	3	7.3%
‡	3	7.3%
-	3	7.3%
—	1	2.4%
,	1	2.4%
'	1	2.4%

Value	Count	Frequency (%)
/	1	2.4%
•	1	2.4%

Hangul

Value	Count	Frequency (%)
편	19	22.9%
집	16	19.3%
부	16	19.3%
외	8	9.6%
진	2	2.4%
알	1	1.2%
르	1	1.2%
드	1	1.2%
상	1	1.2%
렉	1	1.2%
Other values (17)	17	20.5%

Diacriticals

Value	Count	Frequency (%)
~	13	23.6%
—	13	23.6%
ˇ	4	7.3%
˙	3	5.5%
˙	3	5.5%

Value	Count	Frequency (%)
~	3	5.5%
^	3	5.5%
.	2	3.6%
~	2	3.6%
,	2	3.6%
Other values (5)	7	12.7%

Specials

Value	Count	Frequency (%)
?	11	100.0%

CJK

Value	Count	Frequency (%)
子	8	2.5%
野	7	2.2%
山	7	2.2%
田	7	2.2%
美	5	1.6%
高	4	1.2%
大	4	1.2%
久	4	1.2%
刘	4	1.2%
会	3	0.9%
Other values (215)	269	83.5%

Katakana

Value	Count	Frequency (%)
ー	5	14.7%
・	2	5.9%
ヤ	2	5.9%
ル	2	5.9%
エ	2	5.9%
ハ	2	5.9%
シ	2	5.9%
ロ	2	5.9%
マ	2	5.9%
バ	1	2.9%
Other values (12)	12	35.3%

Hebrew

Value	Count	Frequency (%)
ל	4	10.8%
י	4	10.8%
ה	4	10.8%
א	4	10.8%
נ	3	8.1%
ע	3	8.1%
ׂ	3	8.1%
׌	3	8.1%

Value	Count	Frequency (%)
լ	2	5.4%
ս	1	2.7%
Other values (6)	6	16.2%

Armenian

Value	Count	Frequency (%)
ա	4	19.0%
ի	3	14.3%
ւ	3	14.3%
ռ	2	9.5%
կ	1	4.8%
յ	1	4.8%
ւ	1	4.8%
դ	1	4.8%
ւ	1	4.8%
է	1	4.8%
Other values (3)	3	14.3%

Arabic

Value	Count	Frequency (%)
ڦ	4	18.2%
ڦ	3	13.6%
ڦ	2	9.1%
ڦ	2	9.1%

Value	Count	Frequency (%)
ஃ	2	9.1%
ஃ	2	9.1%
ஃ	1	4.5%
ஃ	1	4.5%
ஃ	1	4.5%
Other values (3)	3	13.6%

Misc Symbols

Value	Count	Frequency (%)
ஃ	3	100.0%

Tamil

Value	Count	Frequency (%)
ஃ	2	22.2%
ஃ	2	22.2%
ஃ	2	22.2%
ஃ	1	11.1%
ஃ	1	11.1%
ஃ	1	11.1%

Hiragana

Value	Count	Frequency (%)
い	1	20.0%

Value	Count	Frequency (%)
あ	1	20.0%
め	1	20.0%
ろ	1	20.0%
ひ	1	20.0%

Math Operators

Value	Count	Frequency (%)
√	1	100.0%

image

URL

MISSING

Distinct	149387
Distinct (%)	93.2%
Missing	52075
Missing (%)	24.5%
Memory size	26.5 MiB

Value	Count	Frequency (%)
http://books.google.com/books/content?id=7dMSA...	79	< 0.1%
http://books.google.com/books/content?id=l_8PAQ...	50	< 0.1%
http://books.google.com/books/content?id=NXDxHI...	49	< 0.1%
http://books.google.com/books/content?id=VOro0sf...	48	< 0.1%
http://books.google.com/books/content?id=QxQQA...	29	< 0.1%
http://books.google.com/books/content?id=dPucxP...	28	< 0.1%
http://books.google.com/books/content?id=rbQ4MA...	27	< 0.1%
http://books.google.com/books/content?id=17LiAA...	26	< 0.1%
http://books.google.com/books/content?id=h7xBAQ...	22	< 0.1%
http://books.google.com/books/content?id=JJqEbv...	22	< 0.1%
Other values (149377)	159949	75.3%
(Missing)	52075	24.5%

Value	Count	Frequency (%)
http	160329	75.5%
(Missing)	52075	24.5%

Value	Count	Frequency (%)
books.google.com	160329	75.5%
(Missing)	52075	24.5%

Value	Count	Frequency (%)
/books/content	160329	75.5%
(Missing)	52075	24.5%

Value	Count	Frequency (%)
id=7dMSAQAAAMA AJ&printsec=frontcover&img=1&...	79	< 0.1%
id=l_8PAQAAAMA AJ&printsec=frontcover&img=1&z...	50	< 0.1%
id=NXDxHIpAKm0C&printsec=frontcover&img=1&z...	49	< 0.1%
id=VOro0sfUCikC&printsec=frontcover&img=1&zo...	48	< 0.1%
id=QxQQAQAAAMA AJ&printsec=frontcover&img=1...	29	< 0.1%
id=dPucxP3FSiYC&printsec=frontcover&img=1&zo...	28	< 0.1%
id=rbQ4MAEACAA AJ&printsec=frontcover&img=1&z...	27	< 0.1%
id=17LiAAAAMA AJ&printsec=frontcover&img=1&z...	26	< 0.1%
id=h7xBAQAAIA AJ&printsec=frontcover&img=1&z...	22	< 0.1%
id=JJqEbvqo0ZgC&printsec=frontcover&img=1&zo...	22	< 0.1%
Other values (149377)	159949	75.3%
(Missing)	52075	24.5%

Value	Count	Frequency (%)
	160329	75.5%
(Missing)	52075	24.5%

previewLink

URL

MISSING

Distinct	188099
Distinct (%)	99.8%
Missing	23836
Missing (%)	11.2%
Memory size	35.3 MiB

Value	Count	Frequency (%)
http://books.google.com/books?id=acwPAgAAQBA...	17	< 0.1%
http://books.google.com/books?id=N6lNgByX5moC...	16	< 0.1%
http://books.google.com/books?id=XXdyQgAACAA...	15	< 0.1%
http://books.google.com/books?id=RNADEAAAQB...	13	< 0.1%
http://books.google.com/books?id=GdmEDwAAQB...	7	< 0.1%
http://books.google.nl/books?id=6x0faUaJAbAC&q...	6	< 0.1%
http://books.google.com/books?id=cm1yPHSZ_6g...	6	< 0.1%
http://books.google.com/books?id=c4hRPgAACAA...	6	< 0.1%
http://books.google.com/books?id=UzeNzgEACAA...	6	< 0.1%
http://books.google.com/books?id=gIRVBgAAQBA...	5	< 0.1%
Other values (188089)	188471	88.7%
(Missing)	23836	11.2%

Value	Count	Frequency (%)
http	188568	88.8%
(Missing)	23836	11.2%

Value	Count	Frequency (%)
books.google.com	146316	68.9%
books.google.nl	42252	19.9%
(Missing)	23836	11.2%

Value	Count	Frequency (%)
/books	188568	88.8%
(Missing)	23836	11.2%

Value	Count	Frequency (%)
id=acwPAgAAQBAJ&printsec=frontcover&dq=Quic...	17	< 0.1%
id=N6lNgByX5moC&printsec=frontcover&dq=Micro...	16	< 0.1%
id=XXdyQgAACAAJ&dq=C&hl=&cd=1&source=gb...	15	< 0.1%
id=RNADEAAAQBAJ&printsec=frontcover&dq=List...	13	< 0.1%
id=GdmEDwAAQBAJ&pg=PA1&dq=Women&hl=&c...	7	< 0.1%
id=c4hRPgAACAAJ&dq=Holt+Science&hl=&cd=1&...	6	< 0.1%
id=UzeNzgEACAAJ&dq=Simon&hl=&cd=1&source...	6	< 0.1%
id=6x0faUaJAbAC&q=Road&dq=Road&hl=&cd=1&...	6	< 0.1%
id=cm1yPHSZ_6gC&printsec=frontcover&dq=Hot&...	6	< 0.1%
id=xS9dwaa_gSgC&dq=Funk&hl=&cd=1&source=...	5	< 0.1%
Other values (188070)	188471	88.7%
(Missing)	23836	11.2%

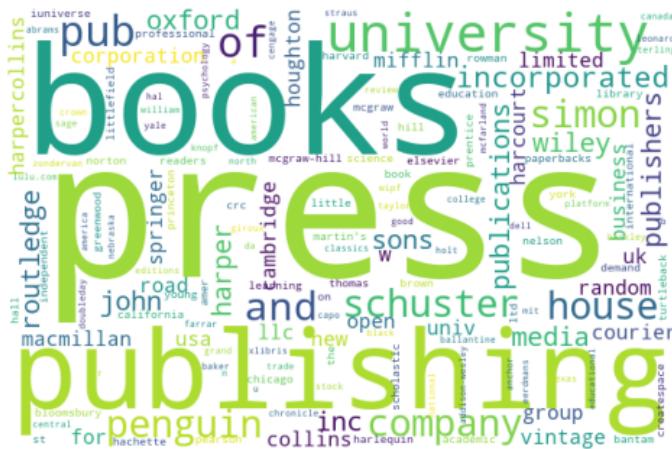
Value	Count	Frequency (%)
	188568	88.8%
(Missing)	23836	11.2%

publisher

Text

MISSING

Distinct	16016
Distinct (%)	11.7%
Missing	75886
Missing (%)	35.7%
Memory size	12.1 MiB



Length

Max length	221
Median length	101
Mean length	17.651533
Min length	2

Characters and Unicode

Total characters	2409752	
Distinct characters	246	
Distinct categories	15	?
	(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	10	?
	(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.

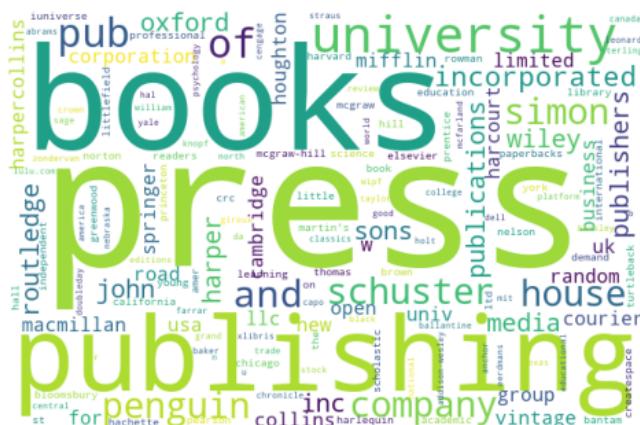
Unique

Unique	9265	?
Unique (%)	6.8%	

Sample

1st row	A&C Black
2nd row	iUniverse
3rd row	Wm. B. Eerdmans Publishing
4th row	Tan Books & Pub
5th row	Plympton PressIntl

Value	Count	Frequency (%)
press	24017	6.9%
books	13128	3.8%
	11510	3.3%
publishing	11149	3.2%
university	9264	2.7%
of	5445	1.6%
pub	5290	1.5%
and	4626	1.3%
house	4168	1.2%
simon	3933	1.1%
Other values (11863)	254630	73.3%



Most occurring characters

Value	Count	Frequency (%)
	210971	8.8%
e	192384	8.0%
s	164930	6.8%
i	162737	6.8%
o	162369	6.7%
r	161235	6.7%
n	155582	6.5%
a	130413	5.4%
l	95954	4.0%
t	90919	3.8%
Other values (236)	882258	36.6%

Most occurring categories

Value	Count	Frequency (%)
Lowercase Letter	1801170	74.7%
Uppercase Letter	357760	14.8%
Space Separator	210972	8.8%
Other Punctuation	31102	1.3%
Dash Punctuation	3690	0.2%
Open Punctuation	1756	0.1%
Close Punctuation	1717	0.1%
Decimal Number	1147	< 0.1%
Other Letter	228	< 0.1%
Math Symbol	162	< 0.1%
Other values (5)	48	< 0.1%

Most frequent character per category

Other Letter

Value	Count	Frequency (%)
社	20	8.8%
月	15	6.6%
谷	15	6.6%
出	9	3.9%
版	9	3.9%
限	6	2.6%

Value	Count	Frequency (%)
公	6	2.6%
司	6	2.6%
有	6	2.6%
大	6	2.6%
Other values (94)	130	57.0%

Lowercase Letter

Value	Count	Frequency (%)
e	192384	10.7%
s	164930	9.2%
i	162737	9.0%
o	162369	9.0%
r	161235	9.0%
n	155582	8.6%
a	130413	7.2%
l	95954	5.3%
t	90919	5.0%
u	69242	3.8%
Other values (49)	415405	23.1%

Uppercase Letter

Value	Count	Frequency (%)
P	65048	18.2%
C	32093	9.0%

Value	Count	Frequency (%)
S	29577	8.3%
B	28176	7.9%
H	23022	6.4%
M	18078	5.1%
U	17553	4.9%
A	14907	4.2%
L	14596	4.1%
R	14204	4.0%
Other values (31)	100506	28.1%

Other Punctuation

Value	Count	Frequency (%)
&	9455	30.4%
.	9167	29.5%
,	6076	19.5%
:	2140	6.9%
'	1884	6.1%
/	1367	4.4%
"	511	1.6%
;	269	0.9%
*	168	0.5%
!	54	0.2%
Other values (4)	11	< 0.1%

Decimal Number

Value	Count	Frequency (%)
9	273	23.8%
1	256	22.3%
0	199	17.3%
8	74	6.5%
2	66	5.8%
7	63	5.5%
5	62	5.4%
4	57	5.0%
3	53	4.6%
6	44	3.8%

Math Symbol

Value	Count	Frequency (%)
+	132	81.5%
	29	17.9%
=	1	0.6%

Other Symbol

Value	Count	Frequency (%)
™	28	73.7%
®	9	23.7%
🧠	1	2.6%

Space Separator

Value	Count	Frequency (%)
	210971	> 99.9%
	1	< 0.1%

Dash Punctuation

Value	Count	Frequency (%)
-	3541	96.0%
–	149	4.0%

Open Punctuation

Value	Count	Frequency (%)
(1567	89.2%
[189	10.8%

Close Punctuation

Value	Count	Frequency (%)
)	1535	89.4%
]	182	10.6%

Final Punctuation

Value	Count	Frequency (%)
,	6	100.0%

Modifier Symbol

Value	Count	Frequency (%)
'	2	100.0%

Currency Symbol

Value	Count	Frequency (%)
\$	1	100.0%

Nonspacing Mark

Value	Count	Frequency (%)
-	1	100.0%

Most occurring scripts

Value	Count	Frequency (%)
Latin	2158560	89.6%
Common	250593	10.4%
Cyrillic	370	< 0.1%
Han	172	< 0.1%
Hangul	37	< 0.1%
Arabic	15	< 0.1%
Katakana	4	< 0.1%
Inherited	1	< 0.1%

Most frequent character per script

Latin

Value	Count	Frequency (%)
e	192384	8.9%
s	164930	7.6%
i	162737	7.5%
o	162369	7.5%
r	161235	7.5%
n	155582	7.2%
a	130413	6.0%
l	95954	4.4%
t	90919	4.2%

Value	Count	Frequency (%)
u	69242	3.2%
Other values (63)	772795	35.8%

Han

Value	Count	Frequency (%)
社	20	11.6%
月	15	8.7%
谷	15	8.7%
出	9	5.2%
版	9	5.2%
限	6	3.5%
公	6	3.5%
司	6	3.5%
有	6	3.5%
大	6	3.5%
Other values (57)	74	43.0%

Common

Value	Count	Frequency (%)
	210971	84.2%
&	9455	3.8%
.	9167	3.7%
,	6076	2.4%
-	3541	1.4%

Value	Count	Frequency (%)
:	2140	0.9%
'	1884	0.8%
(1567	0.6%
)	1535	0.6%
/	1367	0.5%
Other values (31)	2890	1.2%

Cyrillic

Value	Count	Frequency (%)
л	56	15.1%
и	55	14.9%
с	55	14.9%
а	28	7.6%
о	28	7.6%
к	27	7.3%
К	27	7.3%
п	27	7.3%
Р	27	7.3%
е	6	1.6%
Other values (17)	34	9.2%

Hangul

Value	Count	Frequency (%)
ㅍ	5	13.5%

Value	Count	Frequency (%)
문	3	8.1%
보	2	5.4%
고	2	5.4%
연	2	5.4%
세	2	5.4%
판	2	5.4%
부	2	5.4%
대	2	5.4%
학	2	5.4%
Other values (12)	13	35.1%

Arabic

Value	Count	Frequency (%)
١	3	20.0%
٢	3	20.0%
٣	1	6.7%
٤	1	6.7%
٥	1	6.7%
٦	1	6.7%
٧	1	6.7%
٨	1	6.7%
٩	1	6.7%
٠	1	6.7%

Katakana

Value	Count	Frequency (%)
シ	1	25.0%
テ	1	25.0%
ス	1	25.0%
ム	1	25.0%

Inherited

Value	Count	Frequency (%)
-	1	100.0%

Most occurring blocks

Value	Count	Frequency (%)
ASCII	2408839	> 99.9%
Cyrillic	370	< 0.1%
CJK	172	< 0.1%
Punctuation	156	< 0.1%
None	130	< 0.1%
Hangul	37	< 0.1%
Letterlike Symbols	28	< 0.1%
Arabic	15	< 0.1%
Katakana	4	< 0.1%
Diacriticals	1	< 0.1%

Most frequent character per block

ASCII

Value	Count	Frequency (%)
	210971	8.8%
e	192384	8.0%
s	164930	6.8%
i	162737	6.8%
o	162369	6.7%
r	161235	6.7%
n	155582	6.5%

Value	Count	Frequency (%)
a	130413	5.4%
l	95954	4.0%
t	90919	3.8%
Other values (76)	881345	36.6%

Punctuation

Value	Count	Frequency (%)
–	149	95.5%
,	6	3.8%
	1	0.6%

Cyrillic

Value	Count	Frequency (%)
л	56	15.1%
и	55	14.9%
с	55	14.9%
а	28	7.6%
о	28	7.6%
к	27	7.3%
К	27	7.3%
п	27	7.3%
Р	27	7.3%
е	6	1.6%
Other values (17)	34	9.2%

None

Value	Count	Frequency (%)
é	34	26.2%
ä	18	13.8%
ó	12	9.2%
É	12	9.2%
ü	11	8.5%
®	9	6.9%
í	5	3.8%
ö	4	3.1%
á	3	2.3%
Ñ	3	2.3%
Other values (14)	19	14.6%

Letterlike Symbols

Value	Count	Frequency (%)
™	28	100.0%

CJK

Value	Count	Frequency (%)
社	20	11.6%
月	15	8.7%
谷	15	8.7%
出	9	5.2%

Value	Count	Frequency (%)
版	9	5.2%
限	6	3.5%
公	6	3.5%
司	6	3.5%
有	6	3.5%
大	6	3.5%
Other values (57)	74	43.0%

Hangul

Value	Count	Frequency (%)
교	5	13.5%
문	3	8.1%
보	2	5.4%
고	2	5.4%
연	2	5.4%
세	2	5.4%
판	2	5.4%
부	2	5.4%
대	2	5.4%
학	2	5.4%
Other values (12)	13	35.1%

Arabic

Value	Count	Frequency (%)
ا	3	20.0%
ج	3	20.0%
ف	1	6.7%
ن	1	6.7%
د	1	6.7%
ه	1	6.7%
ك	1	6.7%
ل	1	6.7%
م	1	6.7%
س	1	6.7%
ر	1	6.7%
ي	1	6.7%

Katakana

Value	Count	Frequency (%)
シ	1	25.0%
テ	1	25.0%
ス	1	25.0%
ム	1	25.0%

Diacriticals

Value	Count	Frequency (%)
-	1	100.0%

publishedDate

Text

MISSING

Distinct	11582
Distinct (%)	6.2%
Missing	25305
Missing (%)	11.9%
Memory size	12.2 MiB

**Length**

Max length	25
Median length	20
Mean length	6.9014372
Min length	4

Characters and Unicode

Total characters	1291252	
Distinct characters	17	
Distinct categories	5	?
	(https://en.wikipedia.org/wiki/Unicode_character_property#General_Category)	
Distinct scripts	2	?
	(https://en.wikipedia.org/wiki/Script_(Unicode)#List_of_scripts_in_Unicode)	
Distinct blocks	1	(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	2748	?
Unique (%)	1.5%	

Sample

1st row	1996
2nd row	2005-01-01
3rd row	2000
4th row	2005-02
5th row	2003-03-01

Value	Count	Frequency (%)
2000	4291	2.3%
1999	3996	2.1%
2002	3909	2.1%
2004	3885	2.1%
2003	3790	2.0%
2001	3776	2.0%
1998	3766	2.0%
2005	3466	1.9%
1997	3276	1.8%
1996	2806	1.5%
Other values (11501)	150138	80.2%



Most occurring characters

Value	Count	Frequency (%)
0	321606	24.9%
1	235073	18.2%
-	180710	14.0%
2	175734	13.6%
9	146458	11.3%
8	46187	3.6%
3	38142	3.0%
5	37856	2.9%
7	37413	2.9%
6	36567	2.8%
Other values (7)	35506	2.7%

Most occurring categories

Value	Count	Frequency (%)
Decimal Number	1109993	86.0%
Dash Punctuation	180710	14.0%
Other Punctuation	442	< 0.1%
Uppercase Letter	97	< 0.1%
Math Symbol	10	< 0.1%

Most frequent character per category

Decimal Number

Value	Count	Frequency (%)
0	321606	29.0%
1	235073	21.2%
2	175734	15.8%
9	146458	13.2%
8	46187	4.2%
3	38142	3.4%
5	37856	3.4%
7	37413	3.4%
6	36567	3.3%
4	34957	3.1%

Other Punctuation

Value	Count	Frequency (%)
?	180	40.7%
*	143	32.4%
:	119	26.9%

Uppercase Letter

Value	Count	Frequency (%)
T	54	55.7%
Z	43	44.3%

Dash Punctuation

Value	Count	Frequency (%)
-	180710	100.0%

Math Symbol

Value	Count	Frequency (%)
+	10	100.0%

Most occurring scripts

Value	Count	Frequency (%)
Common	1291155	> 99.9%
Latin	97	< 0.1%

Most frequent character per script

Common

Value	Count	Frequency (%)
0	321606	24.9%
1	235073	18.2%
-	180710	14.0%
2	175734	13.6%
9	146458	11.3%
8	46187	3.6%
3	38142	3.0%
5	37856	2.9%
7	37413	2.9%
6	36567	2.8%
Other values (5)	35409	2.7%

Latin

Value	Count	Frequency (%)
T	54	55.7%

Value	Count	Frequency (%)
Z	43	44.3%

Most occurring blocks

Value	Count	Frequency (%)
ASCII	1291252	100.0%

Most frequent character per block

ASCII

Value	Count	Frequency (%)
0	321606	24.9%
1	235073	18.2%
-	180710	14.0%
2	175734	13.6%
9	146458	11.3%
8	46187	3.6%
3	38142	3.0%
5	37856	2.9%
7	37413	2.9%
6	36567	2.8%
Other values (7)	35506	2.7%

infoLink

URL

MISSING

Distinct	184506
Distinct (%)	97.8%
Missing	23836
Missing (%)	11.2%
Memory size	29.9 MiB

Value	Count	Frequency (%)
https://play.google.com/store/books/details?id=acw...	18	< 0.1%
http://books.google.com/books?id=N6IngByX5moC...	16	< 0.1%
http://books.google.com/books?id=XXdyQgAACAA...	15	< 0.1%
https://play.google.com/store/books/details?id=W3...	15	< 0.1%
https://play.google.com/store/books/details?id=RN...	13	< 0.1%
https://play.google.com/store/books/details?id=4VH...	12	< 0.1%
https://play.google.com/store/books/details?id=32-...	12	< 0.1%
https://play.google.com/store/books/details?id=DL...	11	< 0.1%
https://play.google.com/store/books/details?id=SQk...	11	< 0.1%
https://play.google.com/store/books/details?id=gGy...	11	< 0.1%
Other values (184496)	188434	88.7%
(Missing)	23836	11.2%

Value	Count	Frequency (%)
http	145504	68.5%
https	43064	20.3%
(Missing)	23836	11.2%

Value	Count	Frequency (%)
books.google.com	112369	52.9%
play.google.com	43064	20.3%
books.google.nl	33135	15.6%
(Missing)	23836	11.2%

Value	Count	Frequency (%)
/books	145504	68.5%
/store/books/details	43064	20.3%
(Missing)	23836	11.2%

Value	Count	Frequency (%)
id=acwPAgAAQBAJ&source=gb..._api	18	< 0.1%
id=N6IngByX5moC&dq=Microsoft&hl=&source=gb..._api	16	< 0.1%
id=W3PPAgAAQBAJ&source=gb..._api	15	< 0.1%
id=XXdyQgAACAAJ&dq=C&hl=&source=gb..._api	15	< 0.1%
id=RNADEAAQBAJ&source=gb..._api	13	< 0.1%
id=32-FBgZ1Ct4C&source=gb..._api	12	< 0.1%
id=4VH5FhgTXxoC&source=gb..._api	12	< 0.1%
id=DLmgDgAAQBAJ&source=gb..._api	11	< 0.1%
id=SQkkAQAAIAAJ&source=gb..._api	11	< 0.1%
id=gGyRuzWZ9PsC&source=gb..._api	11	< 0.1%
Other values (184479)	188434	88.7%
(Missing)	23836	11.2%

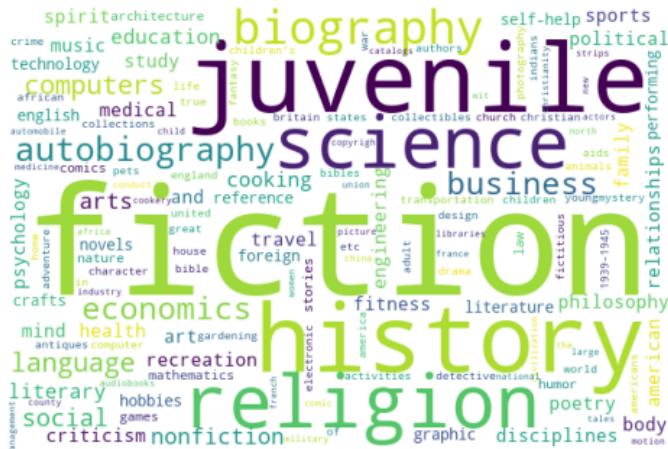
Value	Count	Frequency (%)
	188568	88.8%
(Missing)	23836	11.2%

categories

Text

MISSING

Distinct	10883
Distinct (%)	6.4%
Missing	41199
Missing (%)	19.4%
Memory size	13.3 MiB



Length

Max length	793
Median length	84
Mean length	16.690897
Min length	6

Characters and Unicode

Total characters	2857565	
Distinct characters	125	
Distinct categories	11	?
	(https://en.wikipedia.org/wiki/Unicode_character_property#General_Category)	
Distinct scripts	3	?
	(https://en.wikipedia.org/wiki/Script_(Unicode)#List_of_scripts_in_Unicode)	
Distinct blocks	5	?
	(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.

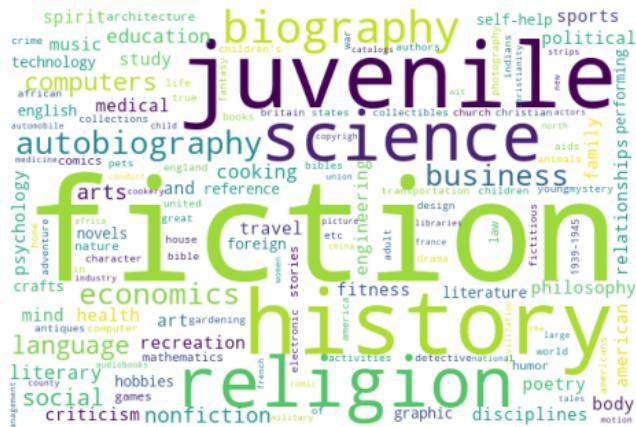
Unique

Unique	6535	?
Unique (%)	3.8%	

Sample

1st row	['Comics & Graphic Novels']
2nd row	['Biography & Autobiography']
3rd row	['Religion']
4th row	['Fiction']
5th row	['Religion']

Value	Count	Frequency (%)
fiction	31814	10.8%
	28627	9.7%
juvenile	10153	3.4%
history	9522	3.2%
religion	9498	3.2%
science	8841	3.0%
biography	6438	2.2%
autobiography	6348	2.2%
business	5848	2.0%
economics	5727	1.9%
Other values (8839)	171882	58.3%



Most occurring characters

Value	Count	Frequency (%)
'	341632	12.0%
i	259278	9.1%
o	174065	6.1%
[171206	6.0%
]	171206	6.0%
e	159868	5.6%
n	151027	5.3%
t	135400	4.7%
	123493	4.3%
c	114530	4.0%
Other values (115)	1055860	36.9%

Most occurring categories

Value	Count	Frequency (%)
Lowercase Letter	1752111	61.3%
Other Punctuation	379492	13.3%
Uppercase Letter	246458	8.6%
Open Punctuation	174125	6.1%
Close Punctuation	174123	6.1%
Space Separator	123493	4.3%
Decimal Number	4731	0.2%
Dash Punctuation	3001	0.1%
Modifier Letter	16	< 0.1%
Math Symbol	12	< 0.1%

Most frequent character per category

Lowercase Letter

Value	Count	Frequency (%)
i	259278	14.8%
o	174065	9.9%
e	159868	9.1%
n	151027	8.6%
t	135400	7.7%
c	114530	6.5%
s	112575	6.4%

Value	Count	Frequency (%)
r	106541	6.1%
a	99275	5.7%
l	77589	4.4%
Other values (49)	361963	20.7%

Uppercase Letter

Value	Count	Frequency (%)
F	38971	15.8%
A	23806	9.7%
S	23257	9.4%
C	21611	8.8%
B	18822	7.6%
H	17598	7.1%
R	16571	6.7%
E	13736	5.6%
P	12307	5.0%
J	10798	4.4%
Other values (22)	48981	19.9%

Other Punctuation

Value	Count	Frequency (%)
'	341632	90.0%
&	28328	7.5%
,	6324	1.7%

Value	Count	Frequency (%)
"	1567	0.4%
.	1517	0.4%
:	90	< 0.1%
/	25	< 0.1%
#	4	< 0.1%
?	2	< 0.1%
!	2	< 0.1%

Decimal Number

Value	Count	Frequency (%)
1	1363	28.8%
9	1131	23.9%
4	471	10.0%
5	405	8.6%
3	354	7.5%
8	301	6.4%
6	188	4.0%
0	187	4.0%
7	181	3.8%
2	150	3.2%

Modifier Letter

Value	Count	Frequency (%)
,	7	43.8%

Value	Count	Frequency (%)
'	5	31.2%
'	4	25.0%

Nonspacing Mark

Value	Count	Frequency (%)
'	1	33.3%
~	1	33.3%
-	1	33.3%

Open Punctuation

Value	Count	Frequency (%)
[171206	98.3%
(2919	1.7%

Close Punctuation

Value	Count	Frequency (%)
]	171206	98.3%
)	2917	1.7%

Space Separator

Value	Count	Frequency (%)
	123493	100.0%

Dash Punctuation

Value	Count	Frequency (%)
-	3001	100.0%

Math Symbol

Value	Count	Frequency (%)
+	12	100.0%

Most occurring scripts

Value	Count	Frequency (%)
Latin	1998569	69.9%
Common	858993	30.1%
Inherited	3	< 0.1%

Most frequent character per script

Latin

Value	Count	Frequency (%)
i	259278	13.0%
o	174065	8.7%
e	159868	8.0%
n	151027	7.6%
t	135400	6.8%
c	114530	5.7%
s	112575	5.6%
r	106541	5.3%
a	99275	5.0%
l	77589	3.9%
Other values (81)	608421	30.4%

Common

Value	Count	Frequency (%)
'	341632	39.8%
[171206	19.9%
]	171206	19.9%
	123493	14.4%
&	28328	3.3%
,	6324	0.7%
-	3001	0.3%
(2919	0.3%
)	2917	0.3%
"	1567	0.2%
Other values (21)	6400	0.7%

Inherited

Value	Count	Frequency (%)
'	1	33.3%
~	1	33.3%
-	1	33.3%

Most occurring blocks

Value	Count	Frequency (%)
ASCII	2857321	> 99.9%
None	203	< 0.1%
Latin Ext Additional	22	< 0.1%
Modifier Letters	16	< 0.1%
Diacriticals	3	< 0.1%

Most frequent character per block

ASCII

Value	Count	Frequency (%)
'	341632	12.0%
i	259278	9.1%
o	174065	6.1%
[171206	6.0%
]	171206	6.0%
e	159868	5.6%
n	151027	5.3%
t	135400	4.7%
	123493	4.3%
c	114530	4.0%
Other values (70)	1055616	36.9%

None

Value	Count	Frequency (%)
é	74	36.5%
í	16	7.9%
ā	16	7.9%
ī	14	6.9%
á	10	4.9%
ñ	9	4.4%
É	9	4.4%
è	8	3.9%
ó	7	3.4%
đ	5	2.5%
Other values (23)	35	17.2%

Latin Ext Additional

Value	Count	Frequency (%)
đ	8	36.4%
ñ	7	31.8%
ť	3	13.6%
ń	2	9.1%
ą	1	4.5%
ṁ	1	4.5%

Modifier Letters

Value	Count	Frequency (%)
,	7	43.8%
'	5	31.2%
'	4	25.0%

Diacriticals

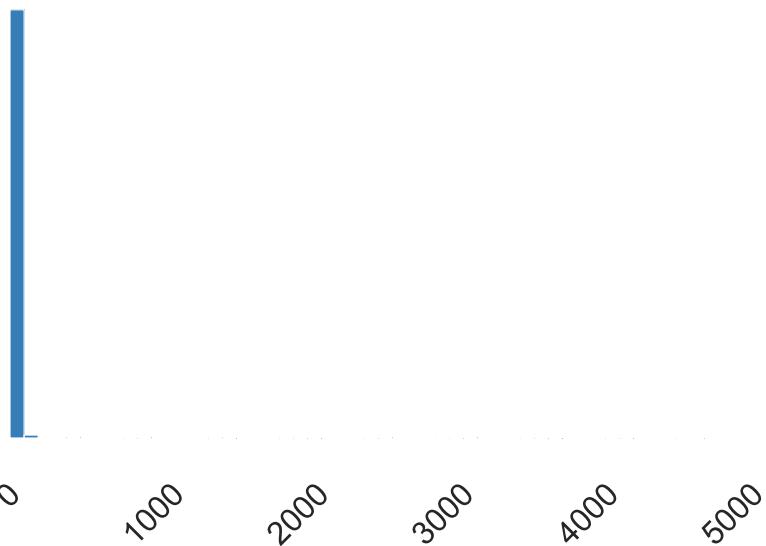
Value	Count	Frequency (%)
'	1	33.3%
^	1	33.3%
-	1	33.3%

ratingsCount

Real number (ℝ)

MISSING

Distinct	478
Distinct (%)	1.0%
Missing	162652
Missing (%)	76.6%
Infinite	0
Infinite (%)	0.0%
Mean	21.252975
Minimum	1
Maximum	4895
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	1.6 MiB



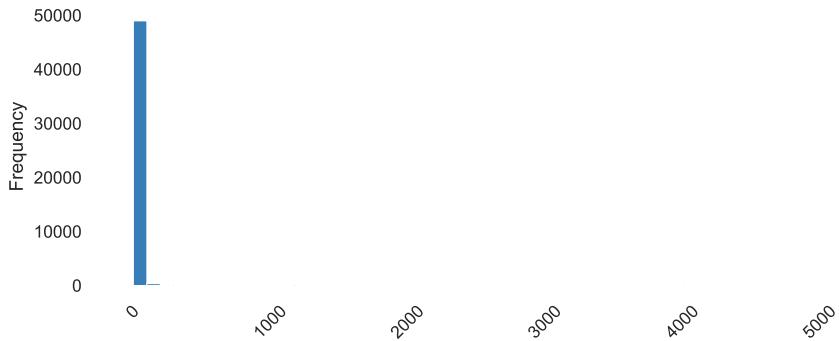
Quantile statistics

Minimum	1
5-th percentile	1
Q1	1
median	2
Q3	5
95-th percentile	30
Maximum	4895
Range	4894
Interquartile range (IQR)	4

Descriptive statistics

Standard deviation	201.34043
Coefficient of variation (CV)	9.4735176

Kurtosis	257.41216
Mean	21.252975
Median Absolute Deviation (MAD)	1
Skewness	15.536183
Sum	1057378
Variance	40537.969
Monotonicity	Not monotonic

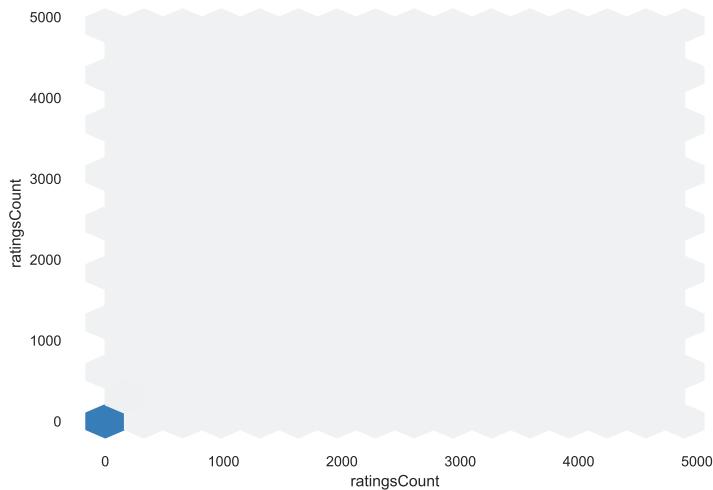


Value	Count	Frequency (%)
1	20919	9.8%
2	8249	3.9%
3	4393	2.1%
4	2798	1.3%
5	1995	0.9%
6	1407	0.7%
7	1098	0.5%
8	893	0.4%
9	740	0.3%
10	605	0.3%
Other values (468)	6655	3.1%
(Missing)	162652	76.6%

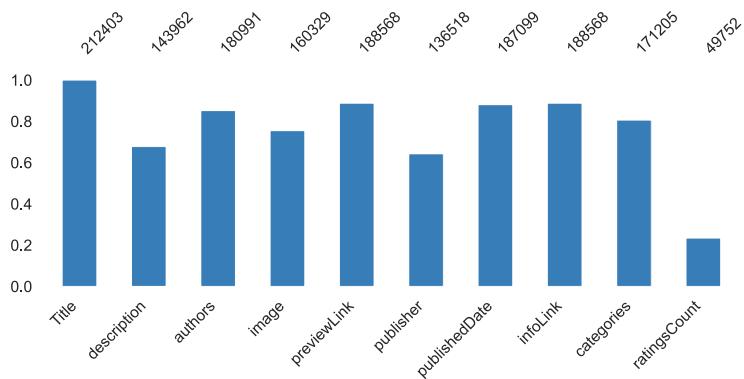
Value	Count	Frequency (%)
1	20919	9.8%
2	8249	3.9%
3	4393	2.1%
4	2798	1.3%
5	1995	0.9%
6	1407	0.7%
7	1098	0.5%
8	893	0.4%
9	740	0.3%
10	605	0.3%

Value	Count	Frequency (%)
4895	1	< 0.1%
4572	2	< 0.1%
4562	1	< 0.1%
4392	1	< 0.1%
4249	1	< 0.1%
4234	1	< 0.1%
4218	1	< 0.1%
4161	1	< 0.1%
4067	1	< 0.1%
3995	1	< 0.1%

Interactions



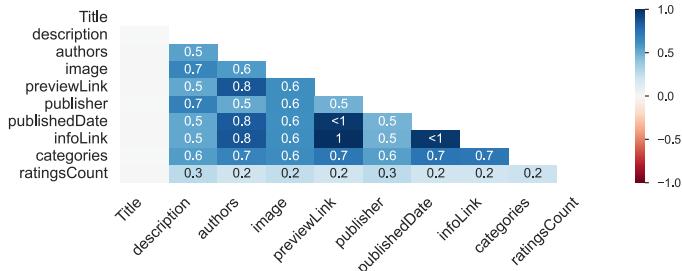
Missing values



A simple visualization of nullity by column.

1	Title	description	authors	image	previewLink	publisher	publishedDate	infoLink	categories	ratingCount
212404										

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



The correlation heatmap measures nullity correlation: how strongly the presence or absence of one variable affects the presence of another.

Sample

	Title	des
0	Its Only Art If Its Well Hung!	Nat
1	Dr. Seuss: American Icon	Phi
2	Wonderful Worship in Smaller Churches	This
3	Whispers of the Wicked Saints	Juli
4	Nation Dance: Religion, Identity and Cultural Difference in the Caribbean	Nat
5	The Church of Christ: A Biblical Ecclesiology for Today	In T
6	The Overbury affair (Avon)	Nat
7	A Walk in the Woods: a Play in Two Acts	Nat
8	Saint Hyacinth of Poland	The
9	Rising Sons and Daughters: Life Among Japan's New Young	Wa



Title

212394 Final things

212395 Essential Guide to Hawaii, the Big Island

212396 Sofia

212397 The Magic of the Soul: Applying Spiritual Power to Daily Living

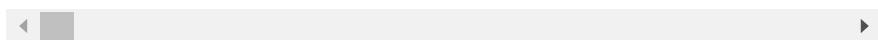
212398 Autodesk Inventor 10 Essentials Plus

212399 The Orphan Of Ellis Island (Time Travel Adventures)

212400 Red Boots for Christmas

212401 Mamaw

212402 The Autograph Man

212403 Student's Solutions Manual for Johnson/Mowry's Mathematics: A Practic

Report generated by YData (https://ydata.ai/?utm_source=opensource&utm_medium=pandasprofiling&utm_campaign=report).