

Overview

Dataset statistics

Number of variables	13
Number of observations	18635
Missing cells	20473
Missing cells (%)	8.5%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	1.8 MiB
Average record size in memory	104.0 B

Variable types

Numeric	2
Categorical	5
Text	4
DateTime	1
Boolean	1

Alerts

congress is highly overall correlated with termstart	High correlation
termstart is highly overall correlated with congress	High correlation
suffix is highly imbalanced (64.1%)	Imbalance
party is highly imbalanced (60.3%)	Imbalance
middlename has 3536 (19.0%) missing values	Missing
suffix has 16937 (90.9%) missing values	Missing
termstart is uniformly distributed	Uniform

Reproduction

Analysis started	2023-09-10 01:15:27.898920
Analysis finished	2023-09-10 01:15:47.554206
Duration	19.66 seconds
Software version	ydata-profiling vv4.5.1 (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

Variables

Select Columns

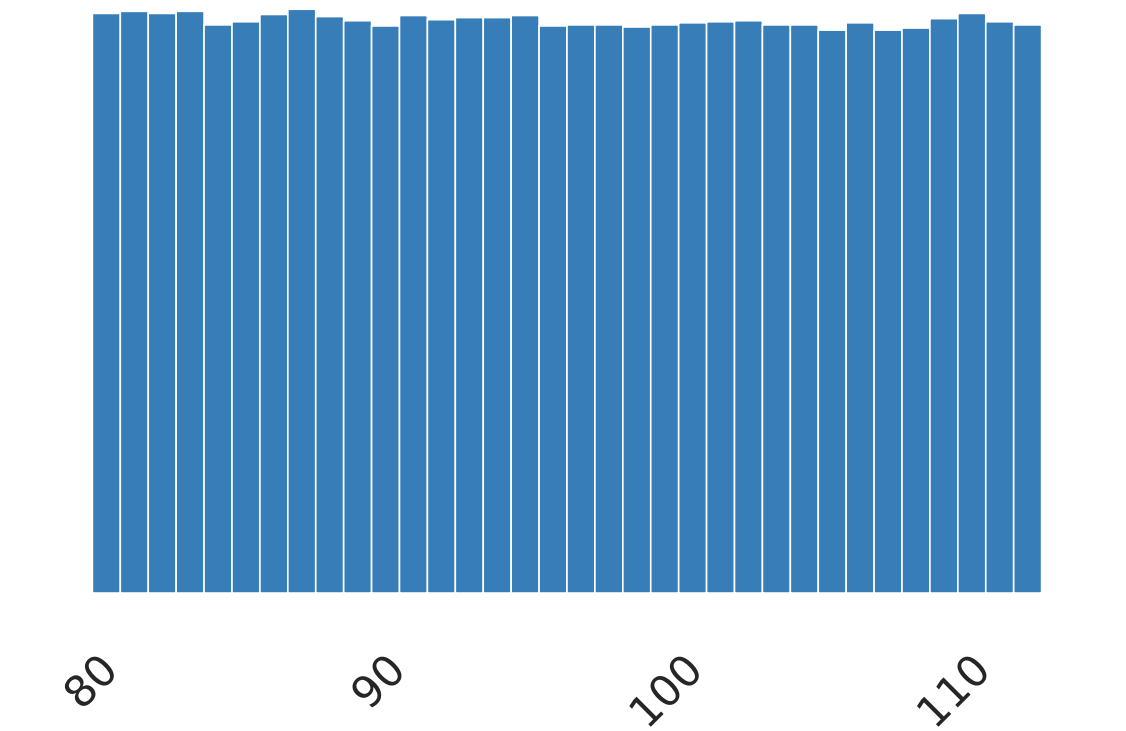
▼

congress

Real number (\mathbb{R})

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

Distinct	34
Distinct (%)	0.2%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	96.445989
Minimum	80
Maximum	113
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	145.7 KiB



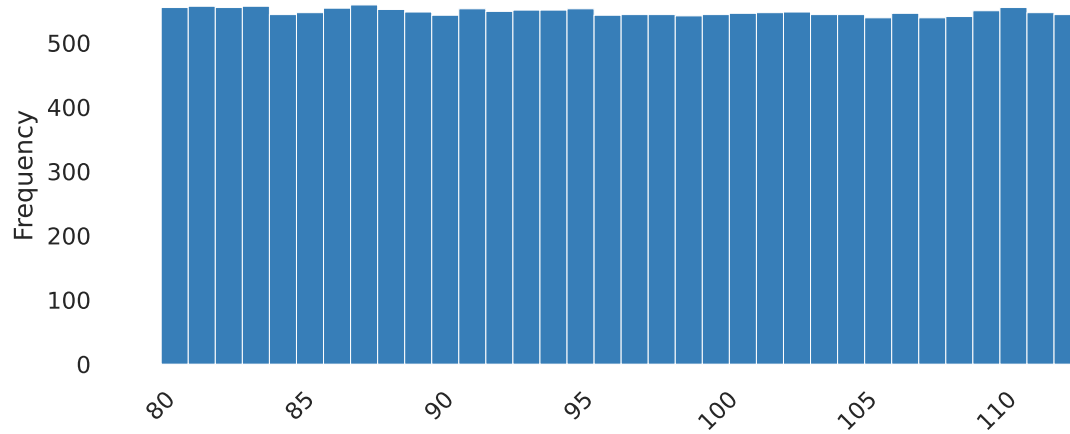
Quantile statistics

Minimum	80
5-th percentile	81
Q1	88
median	96
Q3	105
95-th percentile	112
Maximum	113
Range	33
Interquartile range (IQR)	17

Descriptive statistics

Standard deviation	9.8234288
Coefficient of variation (CV)	0.1018542
Kurtosis	-1.2041551

Mean	96.445989
Median Absolute Deviation (MAD)	9
Skewness	0.0077050102
Sum	1797271
Variance	96.499752
Monotonicity	Increasing



Histogram with fixed size bins (bins=34)

Value	Count	Frequency (%)
87	559	3.0%
83	557	3.0%
81	557	3.0%
80	555	3.0%
111	555	3.0%
82	555	3.0%
86	554	3.0%
95	553	3.0%
91	553	3.0%
88	552	3.0%
Other values (24)	13085	70.2%

Value	Count	Frequency (%)
80	555	3.0%
81	557	3.0%
82	555	3.0%
83	557	3.0%
84	544	2.9%
85	547	2.9%
86	554	3.0%
87	559	3.0%
88	552	3.0%
89	548	2.9%

Value	Count	Frequency (
113	544	2.9%
112	547	2.9%
111	555	3.0%
110	550	3.0%
109	541	2.9%
108	539	2.9%
107	546	2.9%
106	539	2.9%
105	544	2.9%
104	544	2.9%

chamber

Categorical

Distinct	2
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	145.7 KiB

Length

Max length	6
Median length	5
Mean length	5.1906091
Min length	5

Characters and Unicode

Total characters	96727	
Distinct characters	8	
Distinct categories	1 (https://en.wikipedia.org/wiki/Unicode_character_property#General_Category)	?
Distinct scripts	1 (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	0	?
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Unique (%)	0.0%
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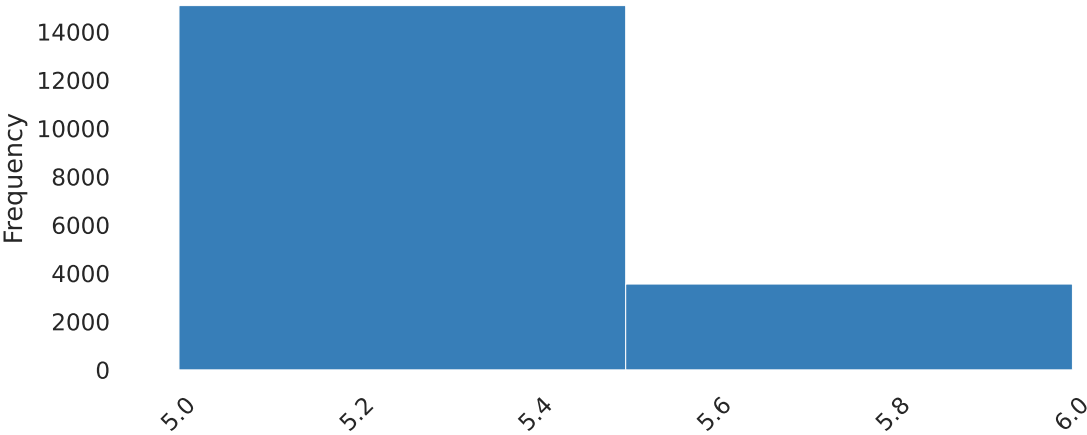
Sample

1st row	house
2nd row	house
3rd row	house
4th row	house
5th row	house

Common Values

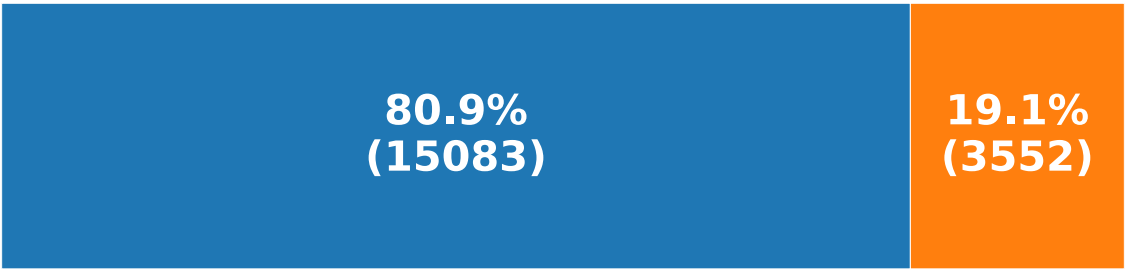
Value	Count	Frequency (%)
house	15083	80.9%
senate	3552	19.1%

Length



Histogram of lengths of the category

Common Values (Plot)



Value	Count	Frequency (%)
house	15083	80.9%
senate	3552	19.1%

Most occurring characters

Value	Count	Frequency (
e	22187	22.9%
s	18635	19.3%
h	15083	15.6%
o	15083	15.6%
u	15083	15.6%
n	3552	3.7%
a	3552	3.7%
t	3552	3.7%

Most occurring categories

Value	Count	Frequency (
Lowercase Letter	96727	100.0%

Most frequent character per category

Lowercase Letter

Value	Count	Frequency (
e	22187	22.9%
s	18635	19.3%
h	15083	15.6%
o	15083	15.6%
u	15083	15.6%
n	3552	3.7%
a	3552	3.7%
t	3552	3.7%

Most occurring scripts

Value	Count	Frequency (
Latin	96727	100.0%

Most frequent character per script

Latin

Value	Count	Frequency (
e	22187	22.9%
s	18635	19.3%
h	15083	15.6%
o	15083	15.6%
u	15083	15.6%
n	3552	3.7%
a	3552	3.7%
t	3552	3.7%

Most occurring blocks

Value	Count	Frequency (
ASCII	96727	100.0%

Most frequent character per block

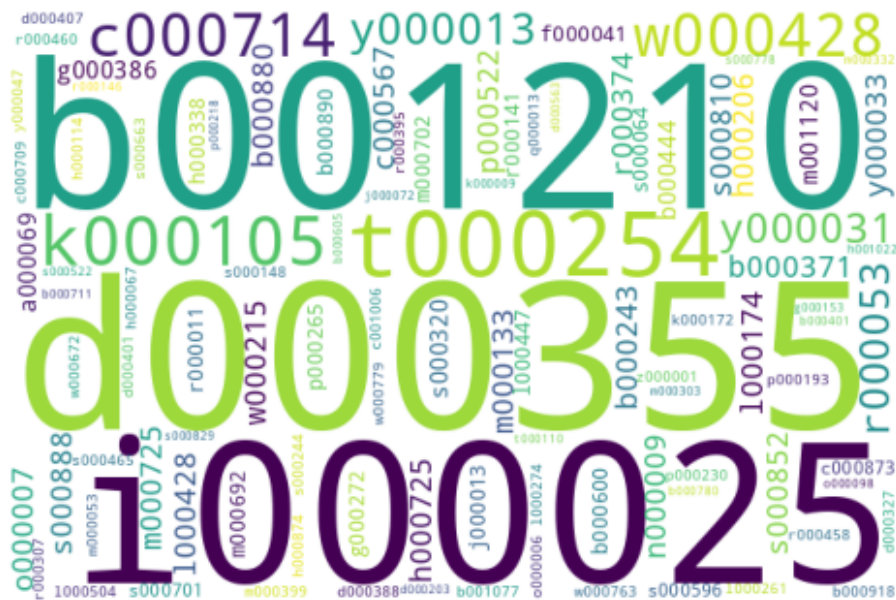
ASCII

Value	Count	Frequency (
e	22187	22.9%
s	18635	19.3%
h	15083	15.6%
o	15083	15.6%
u	15083	15.6%
n	3552	3.7%
a	3552	3.7%
t	3552	3.7%

bioguide

Text

Distinct	3192
Distinct (%)	17.1%
Missing	0
Missing (%)	0.0%
Memory size	145.7 KiB



Length

Max length	7
Median length	7
Mean length	7
Min length	7

Characters and Unicode

Total characters	130445	
Distinct characters	35	
Distinct categories	2 (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.

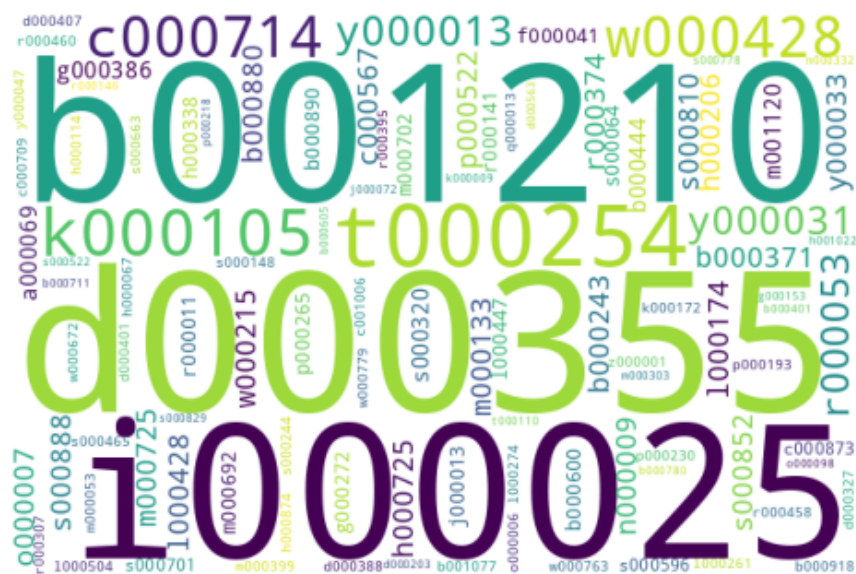
Unique

Unique	574	?
Unique (%)	3.1%	

Sample

1st row	M000112
2nd row	D000448
3rd row	S000001
4th row	E000023
5th row	L000296

Value	Count	Frequency (
d000355	30	0.2%
b001210	29	0.2%
i000025	27	0.1%
t000254	26	0.1%
k000105	25	0.1%
c000714	25	0.1%
w000428	24	0.1%
y000013	24	0.1%
y000031	22	0.1%
r000053	22	0.1%
Other values (3182)	18381	98.6%



Most occurring characters

Value	Count	Frequency (%)
0	61913	47.5%
1	8961	6.9%
2	6652	5.1%
4	5801	4.4%
3	5791	4.4%
5	5384	4.1%
6	4636	3.6%
7	4535	3.5%
8	4271	3.3%
9	3866	3.0%
Other values (25)	18635	14.3%

Most occurring categories

Value	Count	Frequency (%)
Decimal Number	111810	85.7%
Uppercase Letter	18635	14.3%

Most frequent character per category

Uppercase Letter

Value	Count	Frequency (%)
M	1964	10.5%
B	1936	10.4%
S	1748	9.4%
C	1448	7.8%
H	1388	7.4%
R	1048	5.6%
D	1033	5.5%
G	886	4.8%
W	885	4.7%
L	838	4.5%
Other values (15)	5461	29.3%

Decimal Number

Value	Count	Frequency (%)
0	61913	55.4%
1	8961	8.0%
2	6652	5.9%

Value	Count	Frequency (
4	5801	5.2%
3	5791	5.2%
5	5384	4.8%
6	4636	4.1%
7	4535	4.1%
8	4271	3.8%
9	3866	3.5%

Most occurring scripts

Value	Count	Frequency (%)
Common	111810	85.7%
Latin	18635	14.3%

Most frequent character per script

Latin

Value	Count	Frequency (%)
M	1964	10.5%
B	1936	10.4%
S	1748	9.4%
C	1448	7.8%
H	1388	7.4%
R	1048	5.6%
D	1033	5.5%
G	886	4.8%
W	885	4.7%
L	838	4.5%
Other values (15)	5461	29.3%

Common

Value	Count	Frequency (%)
0	61913	55.4%
1	8961	8.0%
2	6652	5.9%

Value	Count	Frequency (
4	5801	5.2%
3	5791	5.2%
5	5384	4.8%
6	4636	4.1%
7	4535	4.1%
8	4271	3.8%
9	3866	3.5%

Most occurring blocks

Value	Count	Frequency (
ASCII	130445	100.0%

Most frequent character per block

ASCII

Value	Count	Frequency (
0	61913	47.5%
1	8961	6.9%
2	6652	5.1%
4	5801	4.4%
3	5791	4.4%
5	5384	4.1%
6	4636	3.6%
7	4535	3.5%
8	4271	3.3%
9	3866	3.0%
Other values (25)	18635	14.3%

Text

Total characters	102397	
Distinct characters	57	
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	2 (https://en.wikipedia.org/wiki/Unicode_block)	?

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Unique

Unique	95	?
Unique (%)	0.5%	

Sample

1st row	Joseph
2nd row	Robert
3rd row	Adolph
4th row	Charles
5th row	William

Value	Count	Frequency (
john	1453	7.8%
william	935	5.0%
james	855	4.6%
robert	753	4.0%
thomas	512	2.7%
charles	488	2.6%
george	355	1.9%
richard	333	1.8%
joseph	314	1.7%
frank	308	1.7%
Other values (797)	12344	66.2%



Most occurring characters

Value	Count	Frequency (%)
e	10027	9.8%
a	9932	9.7%
r	8224	8.0%
l	6930	6.8%
o	6800	6.6%
n	6715	6.6%
i	6233	6.1%
h	4639	4.5%
s	3623	3.5%
J	3506	3.4%
Other values (47)	35768	34.9%

Most occurring categories

Value	Count	Frequency (%)
Lowercase Letter	83449	81.5%
Uppercase Letter	18667	18.2%
Other Punctuation	263	0.3%
Space Separator	15	< 0.1%
Dash Punctuation	3	< 0.1%

Most frequent character per category

Lowercase Letter

Value	Count	Frequency (%)
e	10027	12.0%
a	9932	11.9%
r	8224	9.9%
l	6930	8.3%
o	6800	8.1%
n	6715	8.0%
i	6233	7.5%
h	4639	5.6%
s	3623	4.3%
m	3486	4.2%
Other values (18)	16840	20.2%

Uppercase Letter

Value	Count	Frequency (%)
J	3506	18.8%
R	1682	9.0%
C	1398	7.5%
W	1346	7.2%
D	1066	5.7%
M	983	5.3%
T	968	5.2%
H	934	5.0%
E	909	4.9%
G	803	4.3%
Other values (16)	5072	27.2%

Other Punctuation

Value	Count	Frequency (%)
.	263	100.0%

Space Separator

Value	Count	Frequency (%)
	15	100.0%

Dash Punctuation

Value	Count	Frequency (%)
-	3	100.0%

Most occurring scripts

Value	Count	Frequency (%)
Latin	102116	99.7%
Common	281	0.3%

Most frequent character per script

Latin

Value	Count	Frequency (%)
e	10027	9.8%
a	9932	9.7%
r	8224	8.1%
l	6930	6.8%
o	6800	6.7%
n	6715	6.6%
i	6233	6.1%
h	4639	4.5%
s	3623	3.5%
J	3506	3.4%
Other values (44)	35487	34.8%

Common

Value	Count	Frequency (%)
.	263	93.6%
	15	5.3%
-	3	1.1%

Most occurring blocks

Value	Count	Frequency (
ASCII	102363	> 99.9%
None	34	< 0.1%

Most frequent character per block

ASCII

Value	Count	Frequency (
e	10027	9.8%
a	9932	9.7%
r	8224	8.0%
l	6930	6.8%
o	6800	6.6%
n	6715	6.6%
i	6233	6.1%
h	4639	4.5%
s	3623	3.5%
J	3506	3.4%
Other values (45)	35734	34.9%

None

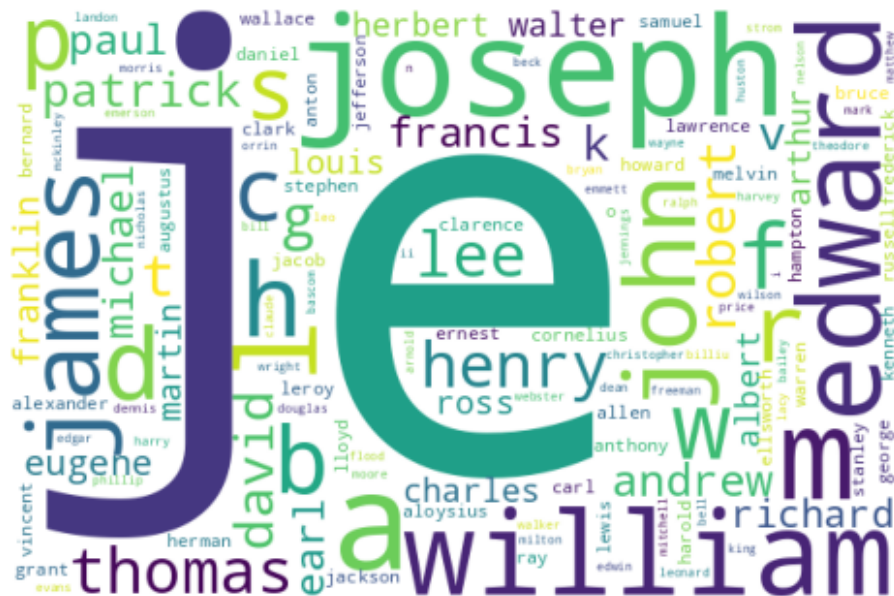
Value	Count	Frequency (
é	26	76.5%
ú	8	23.5%

midlename

Text

MISSING

Distinct	955
Distinct (%)	6.3%
Missing	3536
Missing (%)	19.0%
Memory size	145.7 KiB



Length

Max length	16
Median length	15
Mean length	5.0560964
Min length	1

Characters and Unicode

Total characters	76342	
Distinct characters	57	
Distinct categories	6 (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	2 (https://en.wikipedia.org/wiki/Unicode_block)	?

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Unique

Unique	133	?
Unique (%)	0.9%	

Sample

1st row	Jefferson
2nd row	Lee
3rd row	Joachim
4th row	Aubrey
5th row	A.

Most occurring characters

Value	Count	Frequency (%)
e	6964	9.1%
a	5647	7.4%
r	5633	7.4%
n	4782	6.3%
l	4673	6.1%
o	4354	5.7%
.	4132	5.4%
i	3888	5.1%
s	3128	4.1%
t	2736	3.6%
Other values (47)	30405	39.8%

Most occurring categories

Value	Count	Frequency (%)
Lowercase Letter	56513	74.0%
Uppercase Letter	15466	20.3%
Other Punctuation	4150	5.4%
Space Separator	211	0.3%
Open Punctuation	1	< 0.1%
Close Punctuation	1	< 0.1%

Most frequent character per category

Lowercase Letter

Value	Count	Frequency (%)
e	6964	12.3%
a	5647	10.0%
r	5633	10.0%
n	4782	8.5%
l	4673	8.3%
o	4354	7.7%
i	3888	6.9%
s	3128	5.5%
t	2736	4.8%
d	2426	4.3%
Other values (17)	12282	21.7%

Uppercase Letter

Value	Count	Frequency (%)
J	1500	9.7%
E	1274	8.2%
L	1145	7.4%
M	1124	7.3%
A	1106	7.2%
H	1063	6.9%
W	953	6.2%
B	910	5.9%
C	844	5.5%
R	799	5.2%
Other values (15)	4748	30.7%

Other Punctuation

Value	Count	Frequency (%)
.	4132	99.6%
,	18	0.4%

Space Separator

Value	Count	Frequency (%)
	211	100.0%

Open Punctuation

Value	Count	Frequency (%)
(1	100.0%

Close Punctuation

Value	Count	Frequency (%)
)	1	100.0%

Most occurring scripts

Value	Count	Frequency (%)
Latin	71979	94.3%
Common	4363	5.7%

Most frequent character per script

Latin

Value	Count	Frequency (%)
e	6964	9.7%
a	5647	7.8%
r	5633	7.8%
n	4782	6.6%
l	4673	6.5%
o	4354	6.0%
i	3888	5.4%
s	3128	4.3%
t	2736	3.8%
d	2426	3.4%
Other values (42)	27748	38.6%

Common

Value	Count	Frequency (%)
.	4132	94.7%
,	211	4.8%
'	18	0.4%

Value	Count	Frequency (%)
(1	< 0.1%
)	1	< 0.1%

Most occurring blocks

Value	Count	Frequency (
ASCII	76336	> 99.9%
None	6	< 0.1%

Most frequent character per block

ASCII

Value	Count	Frequency (
e	6964	9.1%
a	5647	7.4%
r	5633	7.4%
n	4782	6.3%
l	4673	6.1%
o	4354	5.7%
.	4132	5.4%
i	3888	5.1%
s	3128	4.1%
t	2736	3.6%
Other values (46)	30399	39.8%

None

Value	Count	Frequency (
é	6	100.0%

Text

Distinct	2289
Distinct (%)	12.3%
Missing	0
Missing (%)	0.0%
Memory size	145.7 KiB



Length

Max length	19
Median length	17
Mean length	6.4986316
Min length	2

Characters and Unicode

Total characters	121102	
Distinct characters	58	
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	2 (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	339	?
Unique (%)	1.8%	

Sample

1st row	Mansfield
2nd row	Doughton
3rd row	Sabath
4th row	Eaton
5th row	Lewis

Value	Count	Frequency (
smith	185	1.0%
johnson	117	0.6%
milller	115	0.6%
davis	93	0.5%
young	92	0.5%
brown	90	0.5%
jones	82	0.4%
rogers	71	0.4%
wilson	71	0.4%
thompson	66	0.4%
Other values (2286)	17812	94.8%



Most occurring characters

Value	Count	Frequency (%)
e	12294	10.2%
n	10140	8.4%
a	9051	7.5%
r	9043	7.5%
o	8510	7.0%
l	7464	6.2%
i	6277	5.2%
s	5974	4.9%
t	5402	4.5%
h	3559	2.9%
Other values (48)	43388	35.8%

Most occurring categories

Value	Count	Frequency (%)
Lowercase Letter	101102	83.5%
Uppercase Letter	19621	16.2%
Space Separator	167	0.1%
Other Punctuation	148	0.1%
Dash Punctuation	64	0.1%

Most frequent character per category

Lowercase Letter

Value	Count	Frequency (%)
e	12294	12.2%
n	10140	10.0%
a	9051	9.0%
r	9043	8.9%
o	8510	8.4%
l	7464	7.4%
i	6277	6.2%
s	5974	5.9%
t	5402	5.3%
h	3559	3.5%
Other values (19)	23388	23.1%

Uppercase Letter

Value	Count	Frequency (%)
M	2031	10.4%
B	2002	10.2%
S	1763	9.0%
C	1698	8.7%
H	1454	7.4%
D	1082	5.5%
R	1056	5.4%
G	995	5.1%
W	900	4.6%
L	886	4.5%
Other values (15)	5754	29.3%

Other Punctuation

Value	Count	Frequency (%)
'	121	81.8%
.	27	18.2%

Space Separator

Value	Count	Frequency (%)
	167	100.0%

Dash Punctuation

Value	Count	Frequency (%)
-	64	100.0%

Most occurring scripts

Value	Count	Frequency (%)
Latin	120723	99.7%
Common	379	0.3%

Most frequent character per script

Latin

Value	Count	Frequency (%)
e	12294	10.2%
n	10140	8.4%
a	9051	7.5%
r	9043	7.5%
o	8510	7.0%
l	7464	6.2%
i	6277	5.2%
s	5974	4.9%
t	5402	4.5%
h	3559	2.9%
Other values (44)	43009	35.6%

Common

Value	Count	Frequency (%)
	167	44.1%
'	121	31.9%
-	64	16.9%

Value	Count	Frequency (
.	27	7.1%

Most occurring blocks

Value	Count	Frequency (%)
ASCII	120999	99.9%
None	103	0.1%

Most frequent character per block

ASCII

Value	Count	Frequency (%)
e	12294	10.2%
n	10140	8.4%
a	9051	7.5%
r	9043	7.5%
o	8510	7.0%
l	7464	6.2%
i	6277	5.2%
s	5974	4.9%
t	5402	4.5%
h	3559	2.9%
Other values (45)	43285	35.8%

None

Value	Count	Frequency (%)
á	55	53.4%
é	38	36.9%
í	10	9.7%

suffix

Categorical

IMBALANCE MISSING

Distinct	7
Distinct (%)	0.4%
Missing	16937
Missing (%)	90.9%
Memory size	145.7 KiB

Length

Max length	4
Median length	3
Mean length	2.9581861
Min length	2

Characters and Unicode

Total characters	5023	
Distinct characters	7	
Distinct categories	4 (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	1	?
Unique (%)	0.1%	

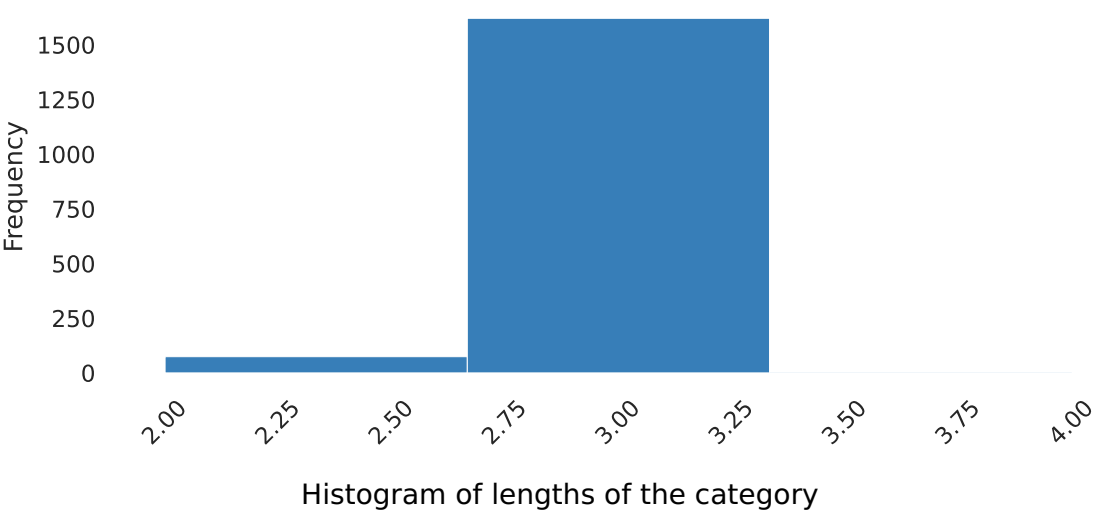
Sample

1st row	Jr.
2nd row	Jr.
3rd row	Jr.
4th row	Jr.
5th row	Jr.

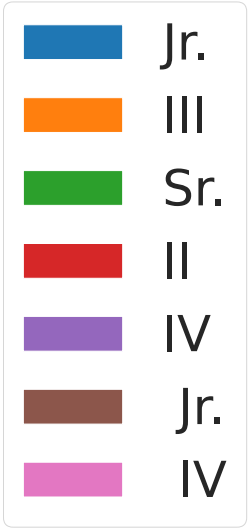
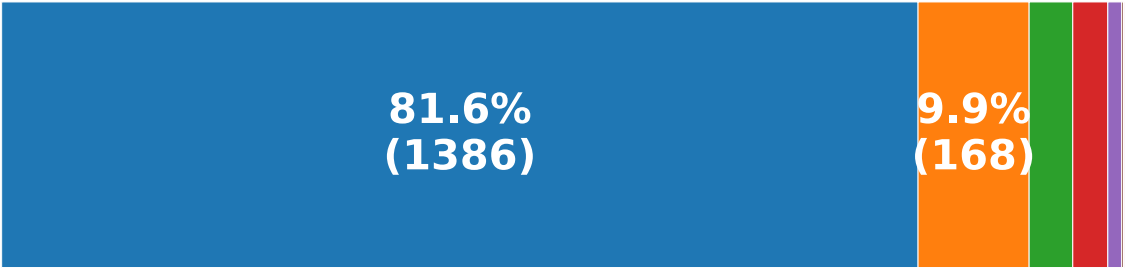
Common Values

Value	Count	Frequency (
Jr.	1386	7.4%
III	168	0.9%
Sr.	66	0.4%
II	53	0.3%
IV	21	0.1%
Jr.	3	< 0.1%
IV	1	< 0.1%
(Missing)	16937	90.9%

Length



Common Values (Plot)



Value	Count	Frequency (%)
jr	1389	81.8%
iii	168	9.9%
sr	66	3.9%
ii	53	3.1%
iv	22	1.3%

Most occurring characters

Value	Count	Frequency (%)
r	1455	29.0%
.	1455	29.0%
J	1389	27.7%
I	632	12.6%
S	66	1.3%
V	22	0.4%
	4	0.1%

Most occurring categories

Value	Count	Frequency (
Uppercase Letter	2109	42.0%
Lowercase Letter	1455	29.0%
Other Punctuation	1455	29.0%
Space Separator	4	0.1%

Most frequent character per category

Uppercase Letter

Value	Count	Frequency (
J	1389	65.9%
I	632	30.0%
S	66	3.1%
V	22	1.0%

Lowercase Letter

Value	Count	Frequency (
r	1455	100.0%

Other Punctuation

Value	Count	Frequency (
.	1455	100.0%

Space Separator

Value	Count	Frequency (
	4	100.0%

Most occurring scripts

Value	Count	Frequency (%)
Latin	3564	71.0%
Common	1459	29.0%

Most frequent character per script

Latin

Value	Count	Frequency (%)
r	1455	40.8%
J	1389	39.0%
I	632	17.7%
S	66	1.9%
V	22	0.6%

Common

Value	Count	Frequency (%)
.	1455	99.7%
	4	0.3%

Most occurring blocks

Value	Count	Frequency (
ASCII	5023	100.0%

Most frequent character per block

ASCII

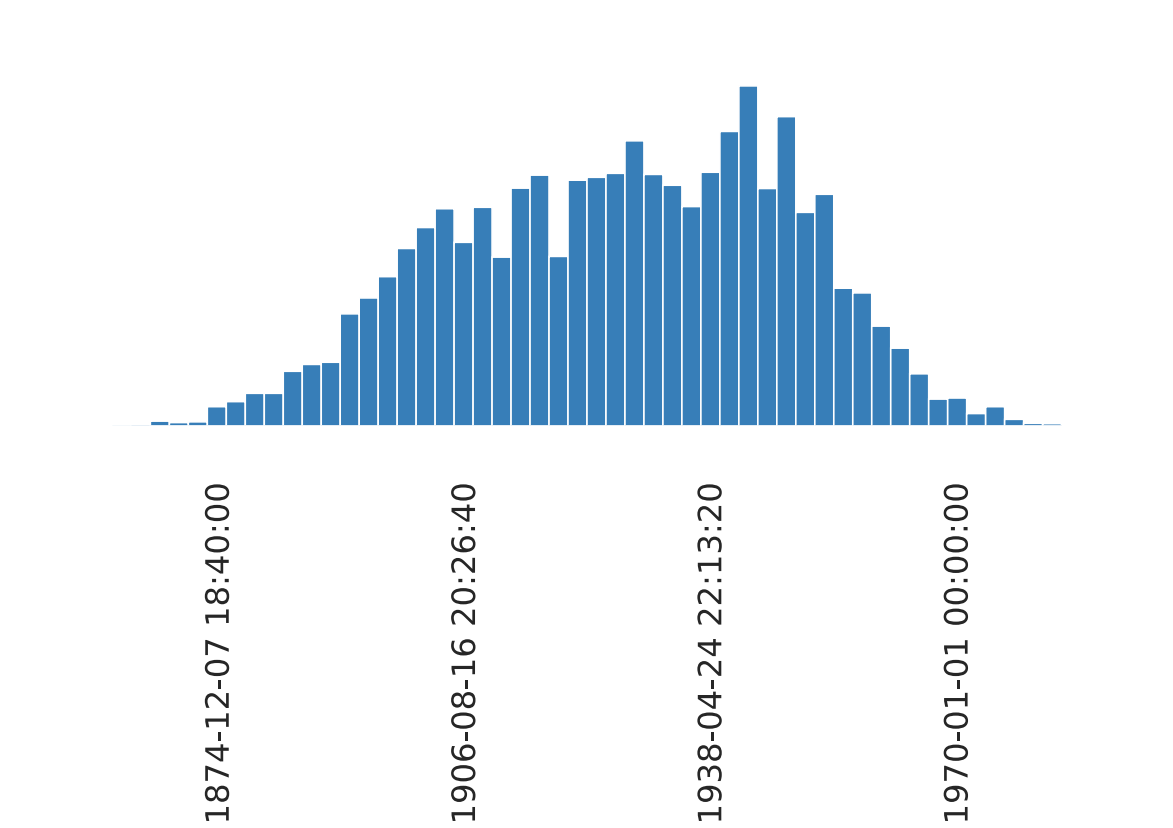
Value	Count	Frequency (
r	1455	29.0%
.	1455	29.0%
J	1389	27.7%
l	632	12.6%
S	66	1.3%
V	22	0.4%
	4	0.1%

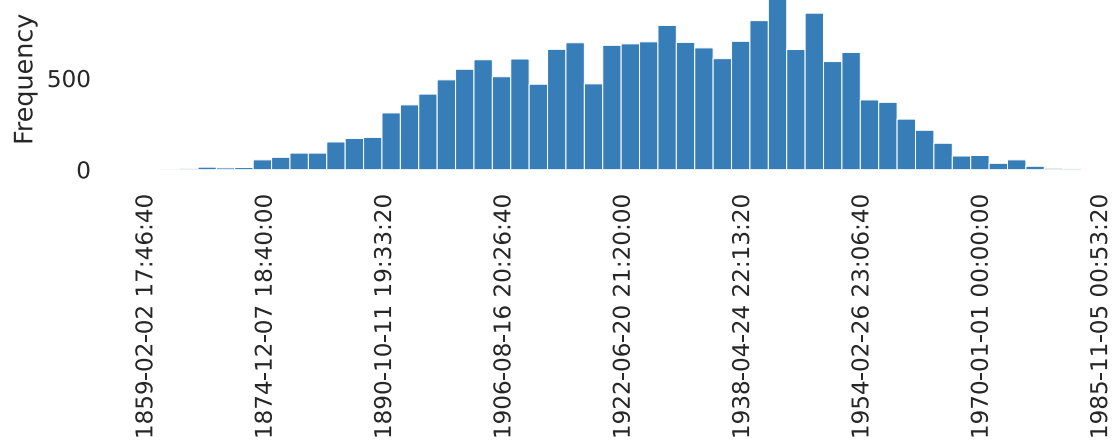
birthday

Date

Distinct	3064
Distinct (%)	16.4%
Missing	0
Missing (%)	0.0%
Memory size	145.7 KiB

Minimum	1861-02-09 00:00:00
Maximum	1983-03-30 00:00:00





Histogram with fixed size bins (bins=50)

state

Categorical

Distinct	50
Distinct (%)	0.3%
Missing	0
Missing (%)	0.0%
Memory size	145.7 KiB

Length

Max length	2
Median length	2
Mean length	2
Min length	2

Characters and Unicode

Total characters	37270	
Distinct characters	24	
Distinct categories	1 (https://en.wikipedia.org/wiki/Unicode_character_property#General_Category)	?
Distinct scripts	1 (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

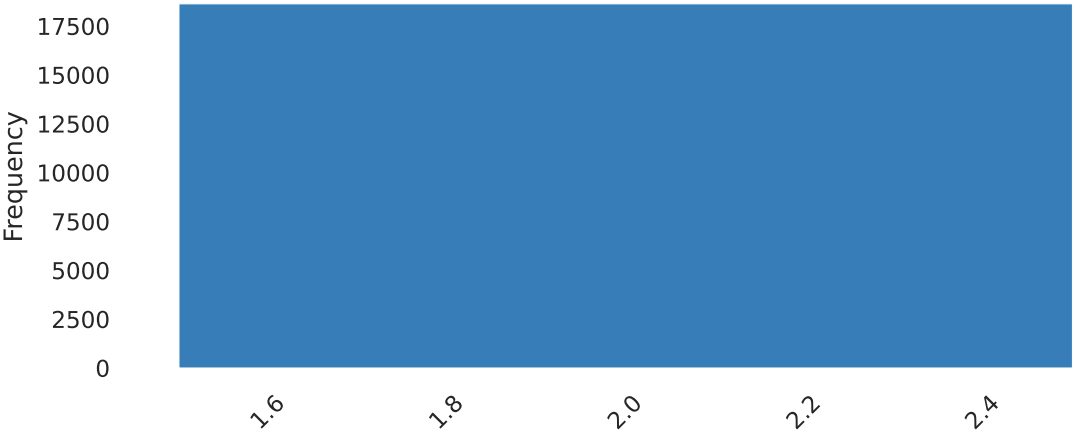
Unique	0	?
---------------	---	---

Unique (%)	0.0%
Sample	
1st row	TX
2nd row	NC
3rd row	IL
4th row	NJ
5th row	KY

Common Values

Value	Count	Frequency (
CA	1534	8.2%
NY	1347	7.2%
TX	985	5.3%
PA	939	5.0%
IL	849	4.6%
OH	809	4.3%
MI	670	3.6%
FL	629	3.4%
NJ	556	3.0%
NC	481	2.6%
Other values (40)	9836	52.8%

Length



Histogram of lengths of the category

Value	Count	Frequency (
ca	1534	8.2%
ny	1347	7.2%
tx	985	5.3%
pa	939	5.0%
il	849	4.6%
oh	809	4.3%
mi	670	3.6%
fl	629	3.4%
nj	556	3.0%
nc	481	2.6%
Other values (40)	9836	52.8%

Most occurring characters

Value	Count	Frequency (%)
A	5662	15.2%
N	4279	11.5%
I	3013	8.1%
M	2934	7.9%
C	2818	7.6%
L	2155	5.8%
T	2026	5.4%
O	1975	5.3%
Y	1778	4.8%
H	1074	2.9%
Other values (14)	9556	25.6%

Most occurring categories

Value	Count	Frequency (%)
Uppercase Letter	37270	100.0%

Most frequent character per category

Uppercase Letter

Value	Count	Frequency (%)
A	5662	15.2%
N	4279	11.5%
I	3013	8.1%
M	2934	7.9%
C	2818	7.6%
L	2155	5.8%
T	2026	5.4%
O	1975	5.3%
Y	1778	4.8%
H	1074	2.9%
Other values (14)	9556	25.6%

Most occurring scripts

Value	Count	Frequency (%)
Latin	37270	100.0%

Most frequent character per script

Latin

Value	Count	Frequency (%)
A	5662	15.2%
N	4279	11.5%
I	3013	8.1%
M	2934	7.9%
C	2818	7.6%
L	2155	5.8%
T	2026	5.4%
O	1975	5.3%
Y	1778	4.8%
H	1074	2.9%
Other values (14)	9556	25.6%

Most occurring blocks

Value	Count	Frequency (%)
ASCII	37270	100.0%

Most frequent character per block

ASCII

Value	Count	Frequency (%)
A	5662	15.2%
N	4279	11.5%
I	3013	8.1%
M	2934	7.9%
C	2818	7.6%
L	2155	5.8%
T	2026	5.4%
O	1975	5.3%
Y	1778	4.8%
H	1074	2.9%
Other values (14)	9556	25.6%

party

Categorical

IMBALANCE

Distinct	6
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	145.7 KiB

Length

Max length	2
Median length	1
Mean length	1.0003756
Min length	1

Characters and Unicode

Total characters	18642	
Distinct characters	5	
Distinct categories	1 (https://en.wikipedia.org/wiki/Unicode_character_property#General_Category)	?
Distinct scripts	1 (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.

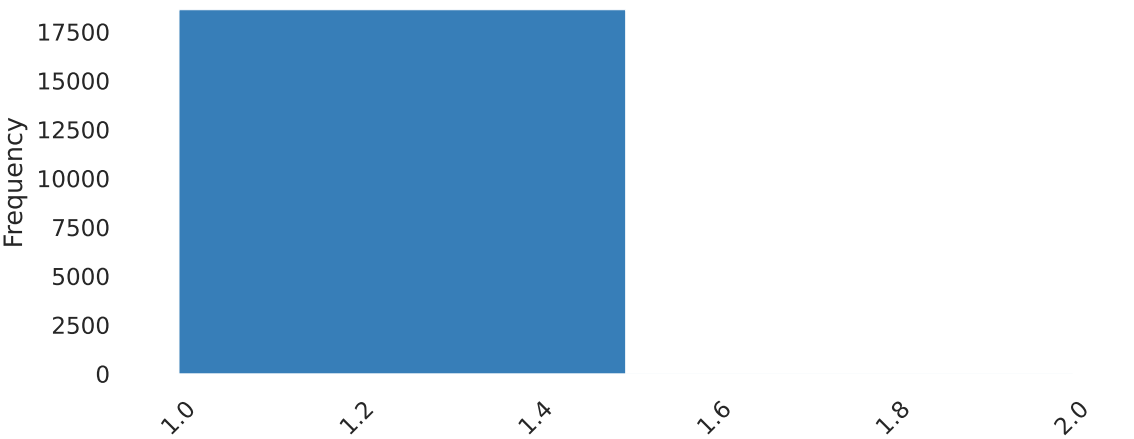
Unique

Unique	1	?
Unique (%)	< 0.1%	
Sample		
1st row	D	
2nd row	D	
3rd row	D	
4th row	R	
5th row	R	

Common Values

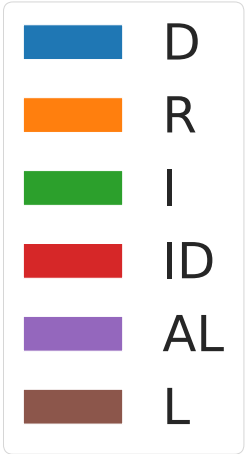
Value	Count	Frequency (
D	10290	55.2%
R	8274	44.4%
I	63	0.3%
ID	4	< 0.1%
AL	3	< 0.1%
L	1	< 0.1%

Length



Histogram of lengths of the category

Common Values (Plot)



Value	Count	Frequency (
d	10290	55.2%
r	8274	44.4%
i	63	0.3%
id	4	< 0.1%
al	3	< 0.1%
l	1	< 0.1%

Most occurring characters

Value	Count	Frequency (
D	10294	55.2%
R	8274	44.4%
I	67	0.4%
L	4	< 0.1%
A	3	< 0.1%

Most occurring categories

Value	Count	Frequency (%)
Uppercase Letter	18642	100.0%

Most frequent character per category

Uppercase Letter

Value	Count	Frequency (%)
D	10294	55.2%
R	8274	44.4%
I	67	0.4%
L	4	< 0.1%
A	3	< 0.1%

Most occurring scripts

Value	Count	Frequency (
Latin	18642	100.0%

Most frequent character per script

Latin

Value	Count	Frequency (
D	10294	55.2%
R	8274	44.4%
I	67	0.4%
L	4	< 0.1%
A	3	< 0.1%

Most occurring blocks

Value	Count	Frequency (
ASCII	18642	100.0%

Most frequent character per block

ASCII

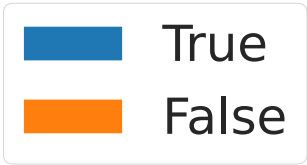
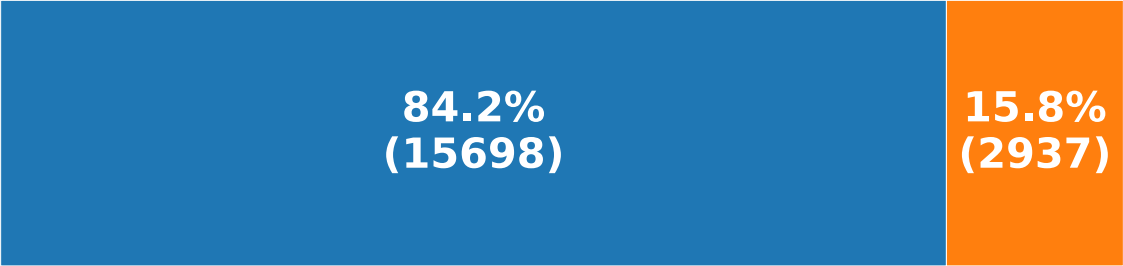
Value	Count	Frequency (
D	10294	55.2%
R	8274	44.4%
I	67	0.4%
L	4	< 0.1%
A	3	< 0.1%

incumbent

Boolean

Distinct	2
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	18.3 KiB

Value	Count	Frequency (%)
True	15698	84.2%
False	2937	15.8%



termstart

Categorical

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

Distinct	34
Distinct (%)	0.2%
Missing	0
Missing (%)	0.0%
Memory size	145.7 KiB

Length

Max length	10
Median length	10
Mean length	10
Min length	10

Characters and Unicode

Total characters	186350	
Distinct characters	11	
Distinct categories	2 (https://en.wikipedia.org/wiki/Unicode_character_property#General_Category)	?
Distinct scripts	1 (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	0	?
Unique (%)	0.0%	

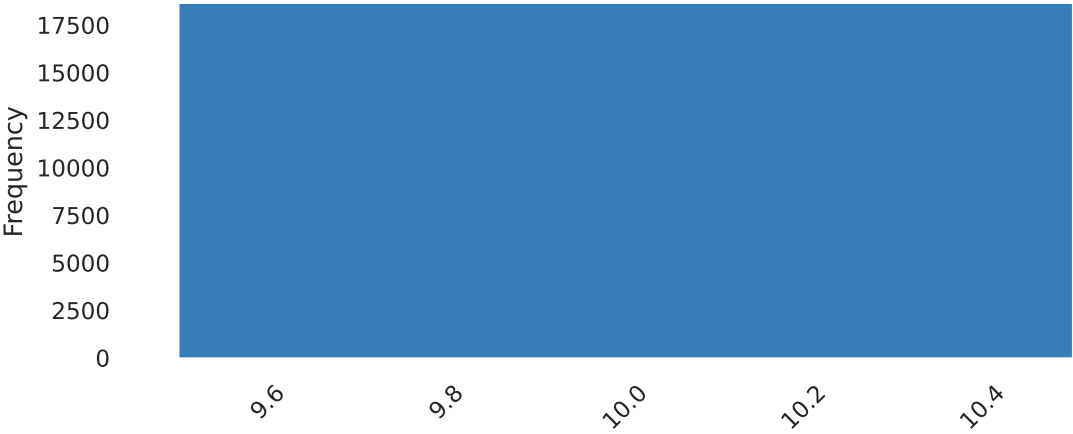
Sample

1st row	1947-01-03
2nd row	1947-01-03
3rd row	1947-01-03
4th row	1947-01-03
5th row	1947-01-03

Common Values

Value	Count	Frequency (
1961-01-03	559	3.0%
1953-01-03	557	3.0%
1949-01-03	557	3.0%
1947-01-03	555	3.0%
2009-01-06	555	3.0%
1951-01-03	555	3.0%
1959-01-07	554	3.0%
1969-01-03	553	3.0%
1977-01-04	553	3.0%
1963-01-09	552	3.0%
Other values (24)	13085	70.2%

Length



Histogram of lengths of the category

Value	Count	Frequency (
1961-01-03	559	3.0%
1953-01-03	557	3.0%
1949-01-03	557	3.0%
1947-01-03	555	3.0%
2009-01-06	555	3.0%
1951-01-03	555	3.0%
1959-01-07	554	3.0%
1977-01-04	553	3.0%
1969-01-03	553	3.0%
1963-01-09	552	3.0%
Other values (24)	13085	70.2%

Most occurring characters

Value	Count	Frequency (%)
0	42180	22.6%
1	40572	21.8%
-	37270	20.0%
9	21934	11.8%
3	11538	6.2%
5	8753	4.7%
7	8220	4.4%
4	4399	2.4%
6	4393	2.4%
2	4371	2.3%

Most occurring categories

Value	Count	Frequency (
Decimal Number	149080	80.0%
Dash Punctuation	37270	20.0%

Most frequent character per category

Decimal Number

Value	Count	Frequency (
0	42180	28.3%
1	40572	27.2%
9	21934	14.7%
3	11538	7.7%
5	8753	5.9%
7	8220	5.5%
4	4399	3.0%
6	4393	2.9%
2	4371	2.9%
8	2720	1.8%

Dash Punctuation

Value	Count	Frequency (
-	37270	100.0%

Most occurring scripts

Value	Count	Frequency (
Common	186350	100.0%

Most frequent character per script

Common

Value	Count	Frequency (
0	42180	22.6%
1	40572	21.8%
-	37270	20.0%
9	21934	11.8%
3	11538	6.2%
5	8753	4.7%
7	8220	4.4%
4	4399	2.4%
6	4393	2.4%
2	4371	2.3%

Most occurring blocks

Value	Count	Frequency (
ASCII	186350	100.0%

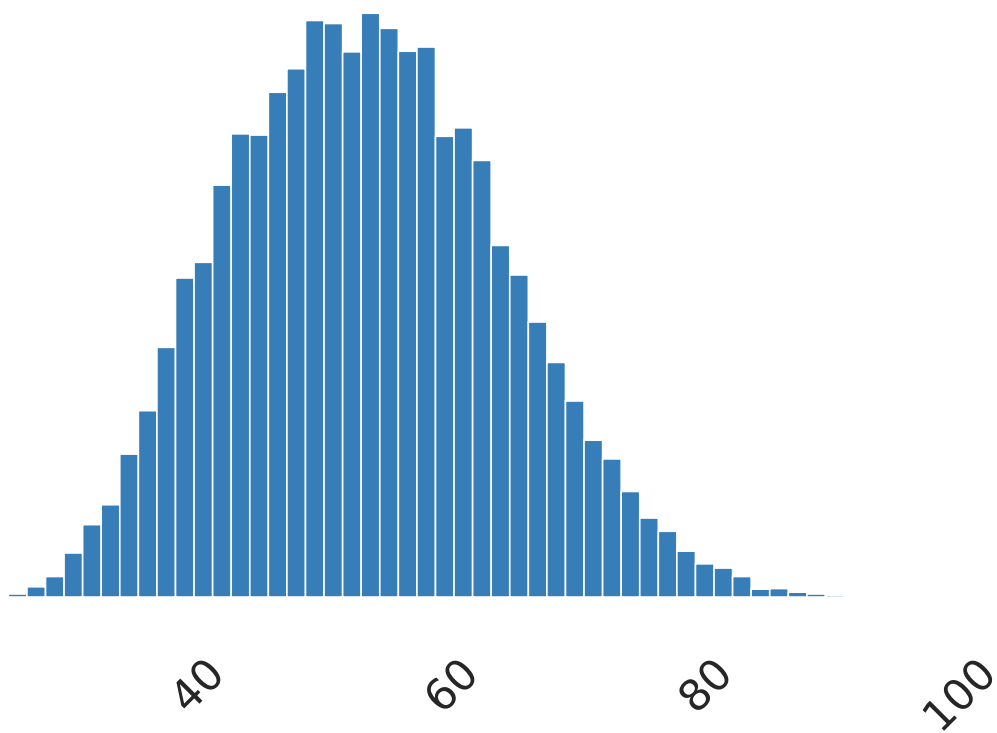
Most frequent character per block

ASCII

Value	Count	Frequency (
0	42180	22.6%
1	40572	21.8%
-	37270	20.0%
9	21934	11.8%
3	11538	6.2%
5	8753	4.7%
7	8220	4.4%
4	4399	2.4%
6	4393	2.4%
2	4371	2.3%

age
Real number (\mathbb{R})

Distinct	605
Distinct (%)	3.2%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	53.313732
Minimum	25
Maximum	98.1
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	145.7 KiB



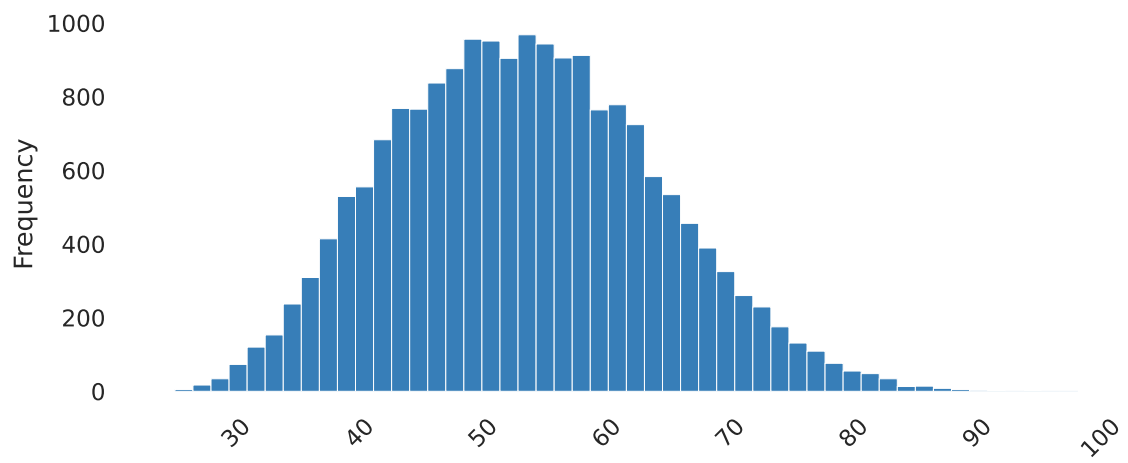
Quantile statistics

Minimum	25
5-th percentile	36.6
Q1	45.4
median	53
Q3	60.55
95-th percentile	71.5
Maximum	98.1
Range	73.1
Interquartile range (IQR)	15.15

Descriptive statistics

Standard deviation	10.678469
Coefficient of variation (CV)	0.20029491
Kurtosis	-0.26081871

Mean	53.313732
Median Absolute Deviation (MAD)	7.6
Skewness	0.23155383
Sum	993501.4
Variance	114.0297
Monotonicity	Not monotonic



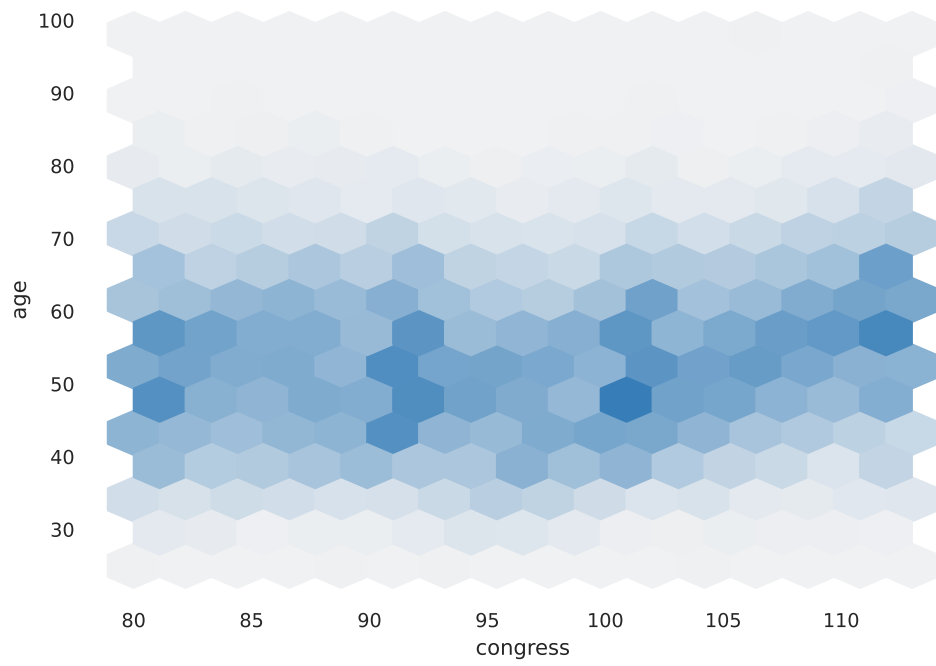
Histogram with fixed size bins (bins=50)

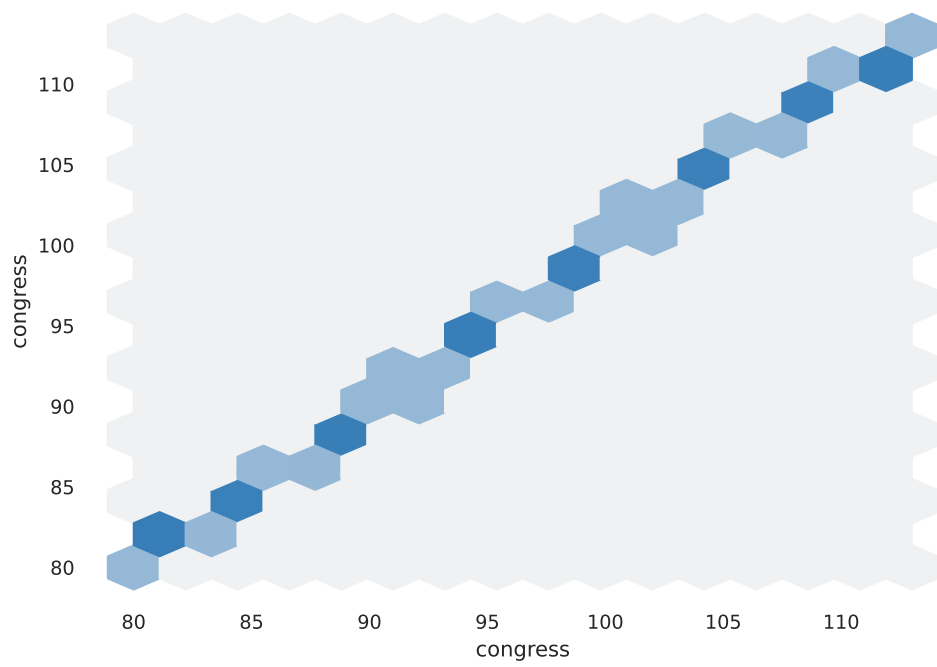
Value	Count	Frequency (%)
56.3	84	0.5%
51.3	80	0.4%
53.3	78	0.4%
58.3	77	0.4%
52.3	77	0.4%
49.3	77	0.4%
50.5	76	0.4%
54.2	76	0.4%
55.3	76	0.4%
52.2	76	0.4%
Other values (595)	17858	95.8%

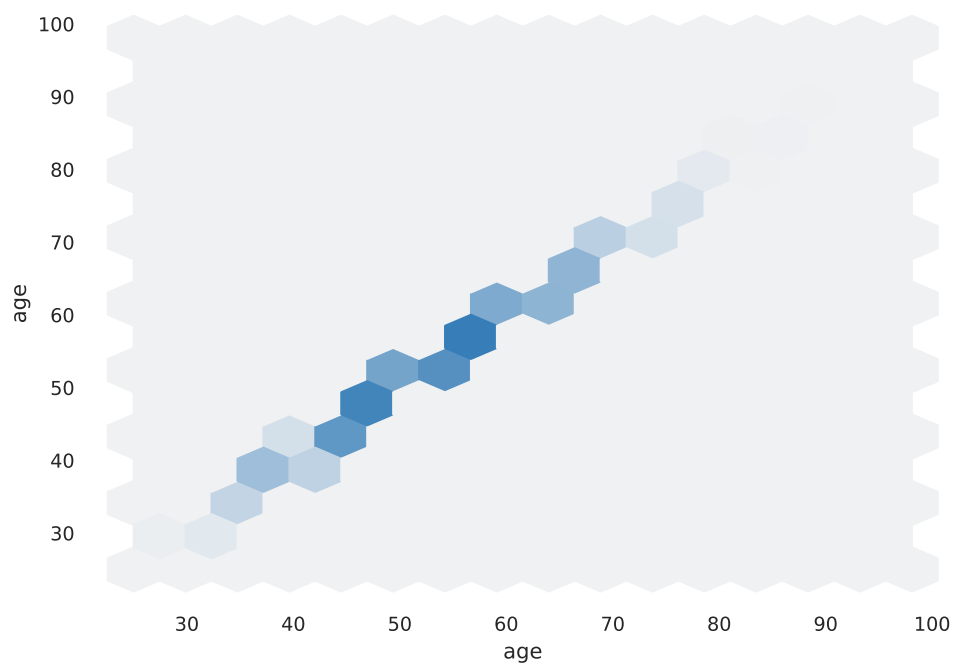
Value	Count	Frequency (%)
25	1	< 0.1%
25.9	1	< 0.1%
26	1	< 0.1%
26.4	2	< 0.1%
26.5	1	< 0.1%
26.7	2	< 0.1%
26.8	1	< 0.1%
26.9	1	< 0.1%
27.2	1	< 0.1%
27.3	1	< 0.1%

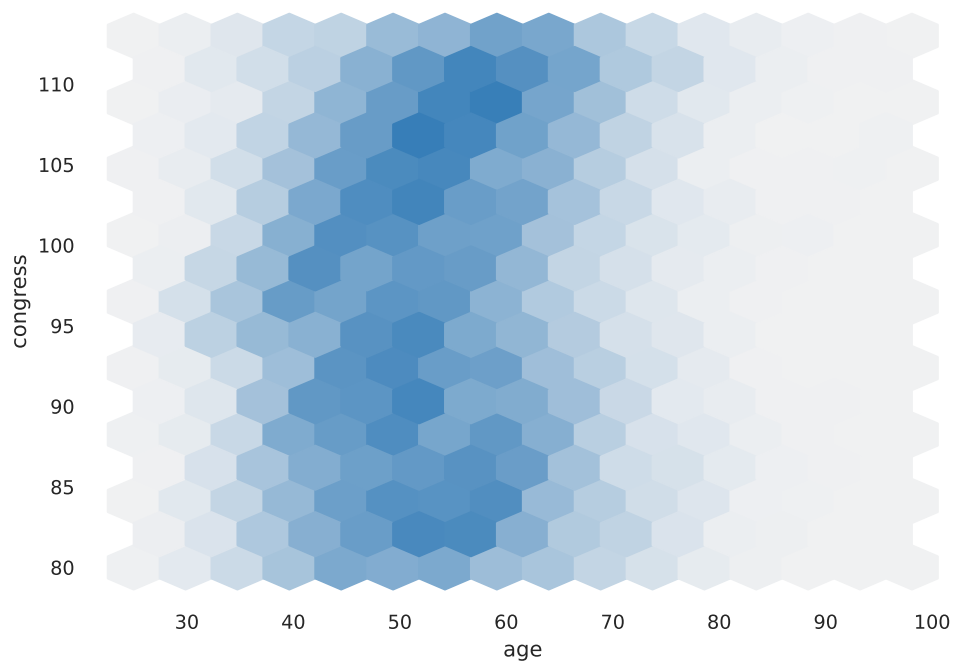
Value	Count	Frequency (
98.1	1	< 0.1%
96.1	1	< 0.1%
95.1	1	< 0.1%
94.1	1	< 0.1%
93	1	< 0.1%
92.1	1	< 0.1%
91.3	1	< 0.1%
90.3	1	< 0.1%
90.1	1	< 0.1%
89.7	1	< 0.1%

Interactions

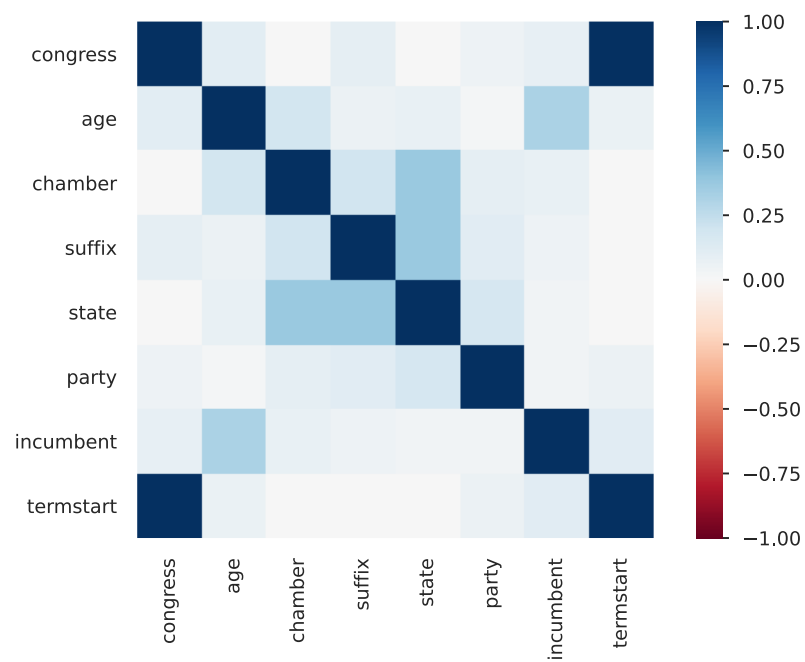






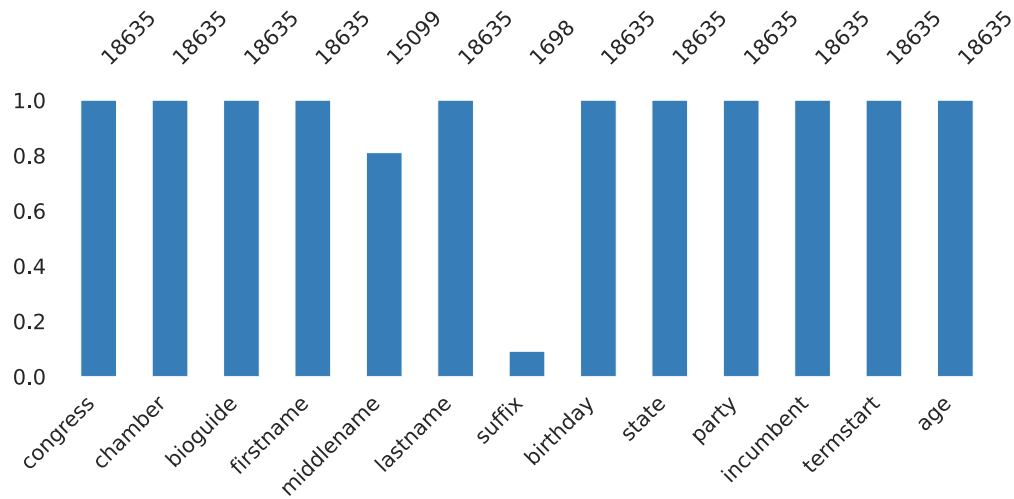


Correlations

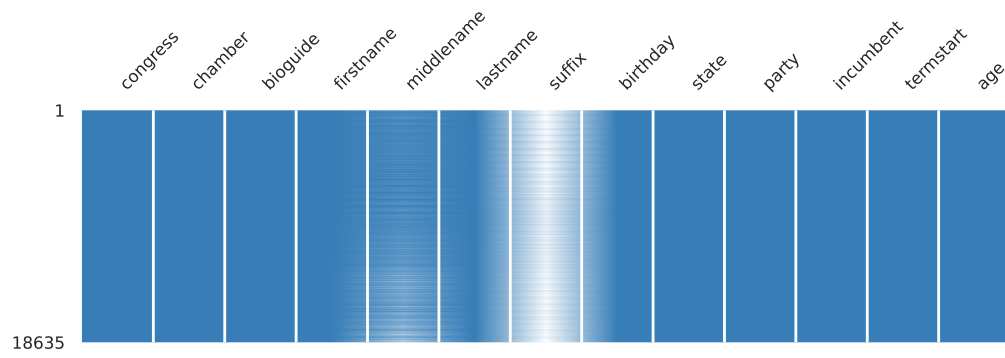


	congress	age	chamber	suffix	state	party	inc
congress	1.000	0.105	0.000	0.089	0.000	0.050	0.0
age	0.105	1.000	0.183	0.058	0.071	0.021	0.3
chamber	0.000	0.183	1.000	0.191	0.368	0.090	0.0
suffix	0.089	0.058	0.191	1.000	0.372	0.117	0.0
state	0.000	0.071	0.368	0.372	1.000	0.170	0.0
party	0.050	0.021	0.090	0.117	0.170	1.000	0.0
incumbent	0.081	0.315	0.074	0.047	0.037	0.034	1.0
termstart	0.999	0.070	0.000	0.000	0.000	0.055	0.1

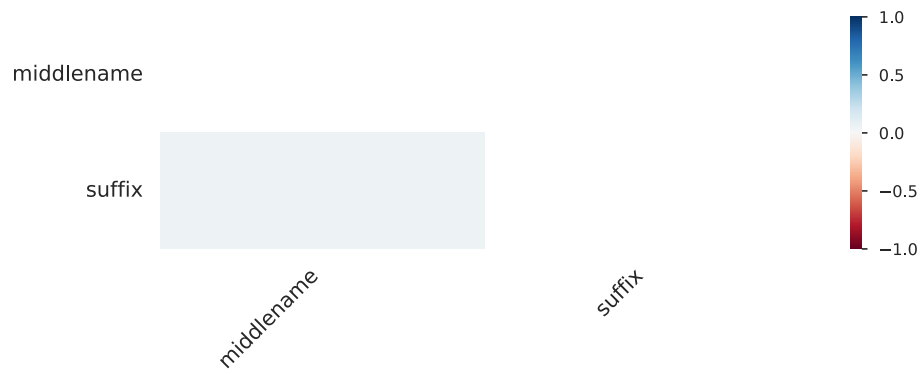
Missing values



A simple visualization of nullity by column.



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

	congress	chamber	bioguide	firstname	middlename	lastnam
0	80	house	M000112	Joseph	Jefferson	Mansfield
1	80	house	D000448	Robert	Lee	Doughton
2	80	house	S000001	Adolph	Joachim	Sabath
3	80	house	E000023	Charles	Aubrey	Eaton
4	80	house	L000296	William	NaN	Lewis
5	80	house	G000017	James	A.	Gallagher
6	80	house	W000265	Richard	Joseph	Welch
7	80	house	B000565	Sol	NaN	Bloom
8	80	house	H000943	Merlin	NaN	Hull
9	80	house	G000169	Charles	Laceille	Gifford

	congress	chamber	bioguide	firstname	middlename	last
18625	113	senate	R000595	Marco	NaN	Ru
18626	113	senate	L000577	Mike	NaN	Le
18627	113	senate	H001046	Martin	NaN	He
18628	113	senate	S001194	Brian	Emanuel	Sc
18629	113	senate	M001169	Christopher	S.	Mu
18630	113	senate	B000243	Max	S.	Ba
18631	113	senate	C001099	William	NaN	Co
18632	113	senate	C001100	Jeffrey	Scott	Ch
18633	113	senate	K000148	John	Forbes	Ke
18634	113	senate	L000123	Frank	R.	La

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