# Overview

#### Dataset statistics

| Number of variables           | 8         |
|-------------------------------|-----------|
| Number of observations        | 1032      |
| Missing cells                 | 31        |
| Missing cells (%)             | 0.4%      |
| Duplicate rows                | 256       |
| Duplicate rows (%)            | 24.8%     |
| Total size in memory          | 104.9 KiB |
| Average record size in memory | 104.0 B   |
| Variable types                |           |
| Categorical                   | 4         |
| Numeric                       | 4         |

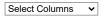
#### Alerts

| Dataset has 256 (24.8%) duplicate rows | Duplicates |
|--|------------|
| sex has 23 (2.2%) missing values       | Missing    |
| species is uniformly distributed       | Uniform    |

## Reproduction

| Analysis<br>started    | 2023-08-28 18:34:35.503975   |
|------------------------|--|
| Analysis finished      | 2023-08-28 18:34:44.889878   |
| Duration               | 9.39 seconds   |
| Software version       | pandas-profiling v3.6.6 (https://github.com/pandas-profiling/pandas-profiling)   |
| Download configuration | config.json (data:text/plain;charset=utf-8,%7B%22title%22%3A%20%22Pandas%20Profiling%20Report%22%2C%20%22dataset%22%3A%20%7B%22description%22%3A%20%22%22% |

# Variables



#### species

. Categorical

| Distinct     | 3        |
|--------------|----------|
| Distinct (%) | 0.3%     |
| Missing      | 0        |
| Missing (%)  | 0.0%     |
| Memory size  | 16.1 KiB |

## Length

| Max length    | 9 |
|---------------|---|
| Median length | 6 |
| Mean length   | 7 |
| Min length    | 6 |

## Characters and Unicode

| Total characters    | 7224  |   |
|---------------------|---|---|
| Distinct characters | 15  |   |
| 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

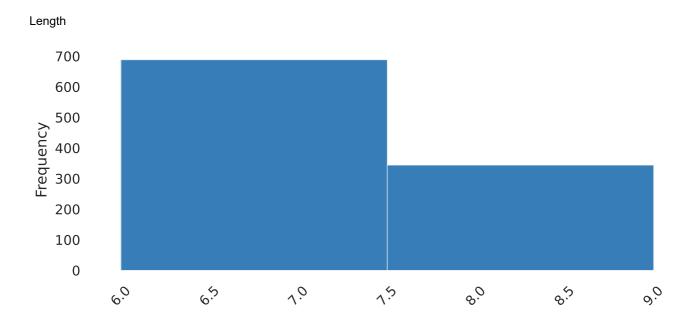
| Unique     | 0    | ? |
|------------|------|---|
| Unique (%) | 0.0% |   |

#### Sample

| 1st row | Adelie |
|---------|--------|
| 2nd row | Adelie |
| 3rd row | Adelie |
| 4th row | Adelie |
| 5th row | Adelie |

#### Common Values

| Value     | Count | Frequency (%) |
|-----------|-------|---------------|
| Adelie    | 344   | 33.3%         |
| Gentoo    | 344   | 33.3%         |
| Chinstrap | 344   | 33.3%         |



Histogram of lengths of the category

#### Common Values (Plot)





| Value     | Count | Frequency (%) |
|-----------|-------|---------------|
| adelie    | 344   | 33.3%         |
| gentoo    | 344   | 33.3%         |
| chinstrap | 344   | 33.3%         |

## Most occurring characters

| Value            | Count | Frequency (%) |
|------------------|-------|---------------|
| е                | 1032  | 14.3%         |
| i                | 688   | 9.5%          |
| n                | 688   | 9.5%          |
| t                | 688   | 9.5%          |
| 0                | 688   | 9.5%          |
| A                | 344   | 4.8%          |
| d                | 344   | 4.8%          |
|                  | 344   | 4.8%          |
| G                | 344   | 4.8%          |
| С                | 344   | 4.8%          |
| Other values (5) | 1720  | 23.8%         |

## Most occurring categories

| Value            | Count | Frequency (%) |
|------------------|-------|---------------|
| Lowercase Letter | 6192  | 85.7%         |
| Uppercase Letter | 1032  | 14.3%         |

# Most frequent character per category

#### Lowercase Letter

| Value  | Count | Frequency (%) |
|--|-------|---------------|
| е  | 1032  | 16.7%         |
| i  | 688   | 11.1%         |
| n  | 688   | 11.1%         |
| t  | 688   | 11.1%         |
| 0  | 688   | 11.1%         |
| d  | 344   | 5.6%          |
| T. Control of the con | 344   | 5.6%          |
| h  | 344   | 5.6%          |
| s  | 344   | 5.6%          |
| r  | 344   | 5.6%          |
| Other values (2)   | 688   | 11.1%         |

#### Uppercase Letter

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| A     | 344   | 33.3%         |
| G     | 344   | 33.3%         |
| С     | 344   | 33.3%         |

# Most occurring scripts

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| Latin | 7224  | 100.0%        |

# Most frequent character per script

#### Latin

| Value            | Count | Frequency (%) |
|------------------|-------|---------------|
| е                | 1032  | 14.3%         |
| i                | 688   | 9.5%          |
| n                | 688   | 9.5%          |
| t                | 688   | 9.5%          |
| 0                | 688   | 9.5%          |
| A                | 344   | 4.8%          |
| d                | 344   | 4.8%          |
| 1                | 344   | 4.8%          |
| G                | 344   | 4.8%          |
| С                | 344   | 4.8%          |
| Other values (5) | 1720  | 23.8%         |

# Most occurring blocks

| Valu | ue . | Count | Frequency (%) |
|------|------|-------|---------------|
| ASC  | CII  | 7224  | 100.0%        |

# Most frequent character per block

#### ASCII

| Value            | Count | Frequency (%) |
|------------------|-------|---------------|
| е                | 1032  | 14.3%         |
| i                | 688   | 9.5%          |
| n                | 688   | 9.5%          |
| t                | 688   | 9.5%          |
| 0                | 688   | 9.5%          |
| A                | 344   | 4.8%          |
| d                | 344   | 4.8%          |
|                  | 344   | 4.8%          |
| G                | 344   | 4.8%          |
| С                | 344   | 4.8%          |
| Other values (5) | 1720  | 23.8%         |

#### island Categorical

| Distinct     | 3        |
|--------------|----------|
| Distinct (%) | 0.3%     |
| Missing      | 0        |
| Missing (%)  | 0.0%     |
| Memory size  | 16.1 KiB |

# Length

| Max length    | 9         |
|---------------|-----------|
| Median length | 6         |
| Mean length   | 5.8343023 |
| Min length    | 5         |

#### Characters and Unicode

| Total characters    | 6021  |   |
|---------------------|---|---|
| Distinct characters | 13  |   |
| 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% |   |

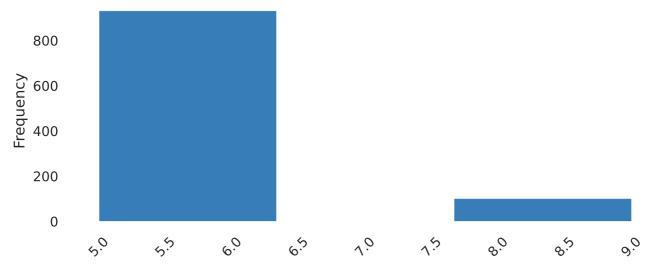
## Sample

| 1st row | Biscoe    |
|---------|-----------|
| 2nd row | Dream     |
| 3rd row | Torgersen |
| 4th row | Biscoe    |
| 5th row | Torgersen |

#### Common Values

| Value     | Count | Frequency (%) |
|-----------|-------|---------------|
| Dream     | 474   | 45.9%         |
| Biscoe    | 457   | 44.3%         |
| Torgersen | 101   | 9.8%          |

#### Length



Histogram of lengths of the category

#### Common Values (Plot)





| Value     | Count | Frequency (%) |
|-----------|-------|---------------|
| dream     | 474   | 45.9%         |
| biscoe    | 457   | 44.3%         |
| torgersen | 101   | 9.8%          |

## Most occurring characters

| Value            | Count | Frequency (%) |
|------------------|-------|---------------|
| е                | 1133  | 18.8%         |
| г                | 676   | 11.2%         |
| s                | 558   | 9.3%          |
| 0                | 558   | 9.3%          |
| D                | 474   | 7.9%          |
| a                | 474   | 7.9%          |
| m                | 474   | 7.9%          |
| В                | 457   | 7.6%          |
| i                | 457   | 7.6%          |
| С                | 457   | 7.6%          |
| Other values (3) | 303   | 5.0%          |

## Most occurring categories

| Value            | Count | Frequency (%) |
|------------------|-------|---------------|
| Lowercase Letter | 4989  | 82.9%         |
| Uppercase Letter | 1032  | 17.1%         |

# Most frequent character per category

#### Lowercase Letter

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| е     | 1133  | 22.7%         |
| r     | 676   | 13.5%         |
| s     | 558   | 11.2%         |
| 0     | 558   | 11.2%         |
| a     | 474   | 9.5%          |
| m     | 474   | 9.5%          |
| i     | 457   | 9.2%          |
| С     | 457   | 9.2%          |
| g     | 101   | 2.0%          |
| n     | 101   | 2.0%          |

#### Uppercase Letter

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| D     | 474   | 45.9%         |
| В     | 457   | 44.3%         |
| T     | 101   | 9.8%          |

# Most occurring scripts

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| Latin | 6021  | 100.0%        |

# Most frequent character per script

#### Latin

| Value            | Count | Frequency (%) |
|------------------|-------|---------------|
| e                | 1133  | 18.8%         |
| r                | 676   | 11.2%         |
| s                | 558   | 9.3%          |
| 0                | 558   | 9.3%          |
| D                | 474   | 7.9%          |
| a                | 474   | 7.9%          |
| m                | 474   | 7.9%          |
| В                | 457   | 7.6%          |
| i                | 457   | 7.6%          |
| С                | 457   | 7.6%          |
| Other values (3) | 303   | 5.0%          |

# Most occurring blocks

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| ASCII | 6021  | 100.0%        |

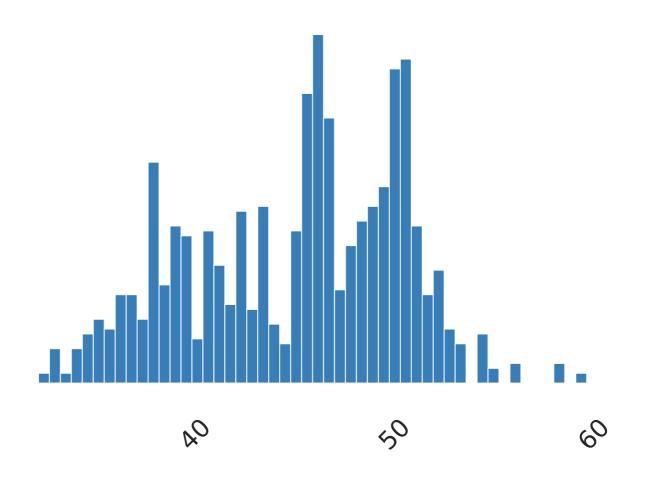
# Most frequent character per block

#### ASCII

| Value            | Count | Frequency (%) |
|------------------|-------|---------------|
| е                | 1133  | 18.8%         |
| r                | 676   | 11.2%         |
| s                | 558   | 9.3%          |
| 0                | 558   | 9.3%          |
| D                | 474   | 7.9%          |
| a                | 474   | 7.9%          |
| m                | 474   | 7.9%          |
| В                | 457   | 7.6%          |
| i                | 457   | 7.6%          |
| С                | 457   | 7.6%          |
| Other values (3) | 303   | 5.0%          |

#### bill\_length\_mm Real number (R)

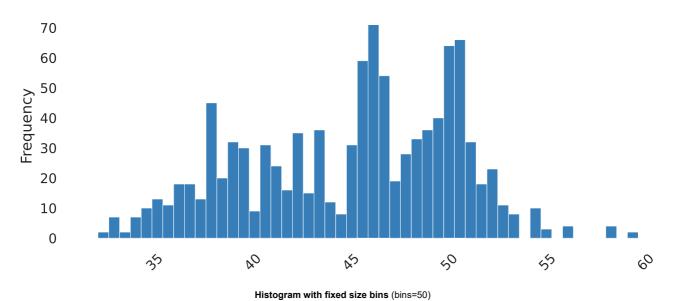
| Distinct                | 158               |
|-------------------------|-------------------|
| Distinct (%)            | 15.3%             |
| Missing                 | 2                 |
| Missing (%)             | 0.2%              |
| Infinite                | 0                 |
| Infinite (%)            | 0.0%              |
| Mean                    | 45.036505         |
|                         |                   |
|                         |                   |
| Minimum                 | 32.1              |
| Maximum Maximum         | 32.1<br>59.6      |
|                         |                   |
| Maximum                 | 59.6              |
| Maximum<br>Zeros        | 59.6<br>0         |
| Maximum Zeros Zeros (%) | 59.6<br>0<br>0.0% |



## Quantile statistics

| Minimum         | 32.1   |
|-----------------|--------|
| 5-th percentile | 35.945 |
| Q1              | 40.7   |
| median          | 46     |

| Q3                              | 49.575        |
|---------------------------------|---------------|
| 95-th percentile                | 52.1          |
| Maximum                         | 59.6          |
| Range                           | 27.5          |
| Interquartile range (IQR)       | 8.875         |
| Descriptive statistics          |               |
| Standard deviation              | 5.3264862     |
| Coefficient of variation (CV)   | 0.11827042    |
| Kurtosis                        | -0.73306213   |
| Mean                            | 45.036505     |
| Median Absolute Deviation (MAD) | 4             |
| Skewness                        | -0.28596892   |
| Sum                             | 46387.6       |
| Variance                        | 28.371455     |
| Monotonicity                    | Not monotonic |



| Value              | Count | Frequency (%) |
|--------------------|-------|---------------|
| 50                 | 26    | 2.5%          |
| 46.2               | 24    | 2.3%          |
| 46.8               | 21    | 2.0%          |
| 51.3               | 20    | 1.9%          |
| 37.8               | 17    | 1.6%          |
| 46.4               | 17    | 1.6%          |
| 42.5               | 16    | 1.6%          |
| 45.5               | 16    | 1.6%          |
| 45.7               | 16    | 1.6%          |
| 50.5               | 16    | 1.6%          |
| Other values (148) | 841   | 81.5%         |

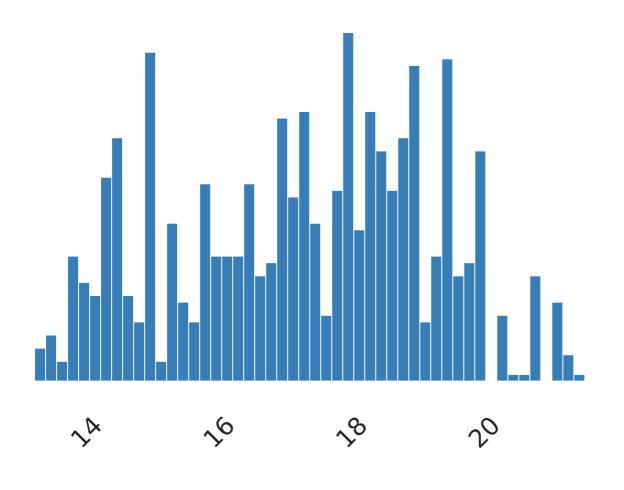
| Value | Count | Frequency (%) |
|-------|-------|---------------|
| 32.1  | 2     | 0.2%          |
| 33.1  | 7     | 0.7%          |
| 33.5  | 2     | 0.2%          |
| 34    | 4     | 0.4%          |
| 34.1  | 3     | 0.3%          |
| 34.5  | 1     | 0.1%          |
| 34.6  | 9     | 0.9%          |
| 35    | 8     | 0.8%          |
| 35.1  | 3     | 0.3%          |
| 35.2  | 1     | 0.1%          |

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| 59.6  | 2     | 0.2%          |
| 58    | 4     | 0.4%          |
| 55.8  | 4     | 0.4%          |
| 55.1  | 3     | 0.3%          |
| 54.3  | 2     | 0.2%          |
| 54.2  | 8     | 0.8%          |
| 53.5  | 3     | 0.3%          |
| 53.4  | 5     | 0.5%          |
| 52.8  | 6     | 0.6%          |
| 52.7  | 3     | 0.3%          |

# bill\_depth\_mm

Real number (R)

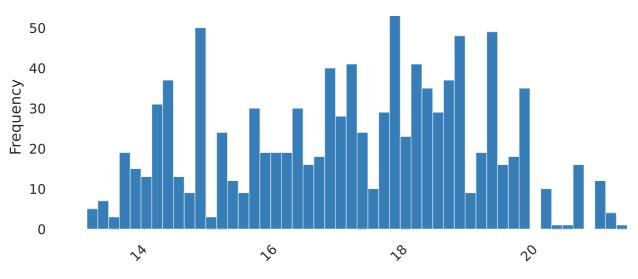
| Distinct     | 77       |
|--------------|----------|
| Distinct (%) | 7.5%     |
| Missing      | 2        |
| Missing (%)  | 0.2%     |
| Infinite     | 0        |
| Infinite (%) | 0.0%     |
| Mean         | 17.24932 |
|              |          |
| Minimum      | 13.2     |
| Maximum      | 21.5     |
| Zeros        | 0        |
| Zeros (%)    | 0.0%     |
| Negative     | 0        |
| Negative (%) | 0.0%     |
|              |          |



## Quantile statistics

| Minimum         | 13.2 |
|-----------------|------|
| 5-th percentile | 14.1 |
| Q1              | 15.7 |
| median          | 17.5 |

| Q3                              | 18.8          |
|---------------------------------|---------------|
| 95-th percentile                | 20            |
| Maximum                         | 21.5          |
| Range                           | 8.3           |
| Interquartile range (IQR)       | 3.1           |
| Descriptive statistics          |               |
| Standard deviation              | 1.9369595     |
| Coefficient of variation (CV)   | 0.11229193    |
| Kurtosis                        | -0.91090306   |
| Mean                            | 17.24932      |
| Median Absolute Deviation (MAD) | 1.4           |
| Skewness                        | -0.16506733   |
| Sum                             | 17766.8       |
| Variance                        | 3.751812      |
| Monotonicity                    | Not monotonic |



Histogram with fixed size bins (bins=50)

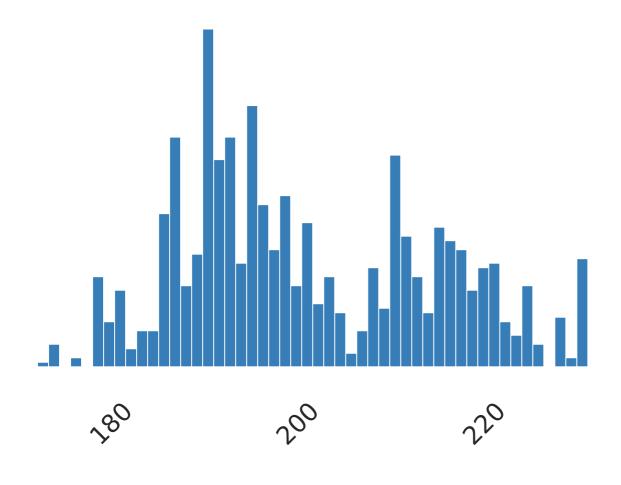
| Value             | Count | Frequency (%) |
|-------------------|-------|---------------|
| 17.9              | 41    | 4.0%          |
| 15                | 38    | 3.7%          |
| 17                | 37    | 3.6%          |
| 17.3              | 30    | 2.9%          |
| 18.6              | 29    | 2.8%          |
| 17.1              | 28    | 2.7%          |
| 14.5              | 25    | 2.4%          |
| 19.5              | 25    | 2.4%          |
| 19.4              | 24    | 2.3%          |
| 20                | 24    | 2.3%          |
| Other values (67) | 729   | 70.6%         |

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| 13.2  | 4     | 0.4%          |
| 13.3  | 1     | 0.1%          |
| 13.4  | 4     | 0.4%          |
| 13.5  | 3     | 0.3%          |
| 13.6  | 3     | 0.3%          |
| 13.7  | 12    | 1.2%          |
| 13.8  | 7     | 0.7%          |
| 13.9  | 7     | 0.7%          |
| 14    | 8     | 0.8%          |
| 14.1  | 13    | 1.3%          |

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| 21.5  | 1     | 0.1%          |
| 21.2  | 4     | 0.4%          |
| 21.1  | 12    | 1.2%          |
| 20.8  | 8     | 0.8%          |
| 20.7  | 8     | 0.8%          |
| 20.6  | 1     | 0.1%          |
| 20.5  | 1     | 0.1%          |
| 20.3  | 10    | 1.0%          |
| 20    | 24    | 2.3%          |
| 19.9  | 11    | 1.1%          |

# flipper\_length\_mm Real number (R)

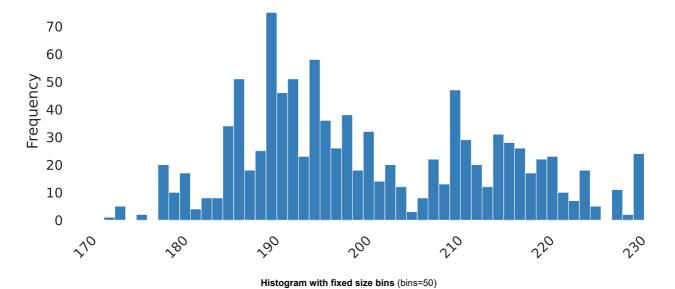
| Distinct                | 55               |
|-------------------------|------------------|
| Distinct (%)            | 5.3%             |
| Missing                 | 2                |
| Missing (%)             | 0.2%             |
| Infinite                | 0                |
| Infinite (%)            | 0.0%             |
| Mean                    | 201.05437        |
|                         |                  |
|                         |                  |
| Minimum                 | 172              |
| Minimum<br>Maximum      | 172<br>231       |
|                         |                  |
| Maximum                 | 231              |
| Maximum<br>Zeros        | 231<br>0         |
| Maximum Zeros Zeros (%) | 231<br>0<br>0.0% |



#### Quantile statistics

| Minimum         | 172 |
|-----------------|-----|
| 5-th percentile | 181 |
| Q1              | 190 |
| median          | 197 |

| Q3                              | 212           |
|---------------------------------|---------------|
| 95-th percentile                | 224.55        |
| Maximum                         | 231           |
| Range                           | 59            |
| Interquartile range (IQR)       | 22            |
| Descriptive statistics          |               |
| Standard deviation              | 13.50402      |
| Coefficient of variation (CV)   | 0.067166011   |
| Kurtosis                        | -0.87033254   |
| Mean                            | 201.05437     |
| Median Absolute Deviation (MAD) | 10            |
| Skewness                        | 0.35917001    |
| Sum                             | 207086        |
| Variance                        | 182.35856     |
| Monotonicity                    | Not monotonic |



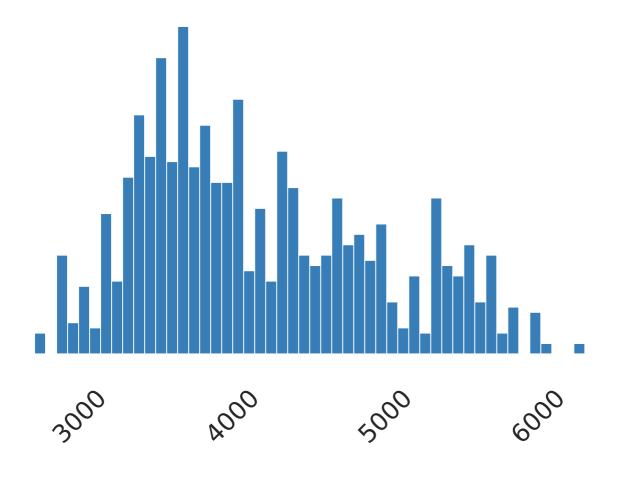
| Value             | Count | Frequency (%) |
|-------------------|-------|---------------|
| 190               | 75    | 7.3%          |
| 195               | 58    | 5.6%          |
| 187               | 51    | 4.9%          |
| 193               | 51    | 4.9%          |
| 210               | 47    | 4.6%          |
| 196               | 36    | 3.5%          |
| 201               | 32    | 3.1%          |
| 215               | 31    | 3.0%          |
| 216               | 28    | 2.7%          |
| 197               | 26    | 2.5%          |
| Other values (45) | 595   | 57.7%         |

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| 172   | 1     | 0.1%          |
| 174   | 5     | 0.5%          |
| 176   | 2     | 0.2%          |
| 178   | 14    | 1.4%          |
| 179   | 6     | 0.6%          |
| 180   | 10    | 1.0%          |
| 181   | 17    | 1.6%          |
| 182   | 4     | 0.4%          |
| 183   | 8     | 0.8%          |
| 184   | 8     | 0.8%          |

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| 231   | 2     | 0.2%          |
| 230   | 22    | 2.1%          |
| 229   | 2     | 0.2%          |
| 228   | 11    | 1.1%          |
| 226   | 5     | 0.5%          |
| 225   | 10    | 1.0%          |
| 224   | 8     | 0.8%          |
| 223   | 7     | 0.7%          |
| 222   | 10    | 1.0%          |
| 221   | 23    | 2.2%          |

# $\begin{array}{l} body\_mass\_g \\ \text{Real number } (\mathbb{R}) \end{array}$

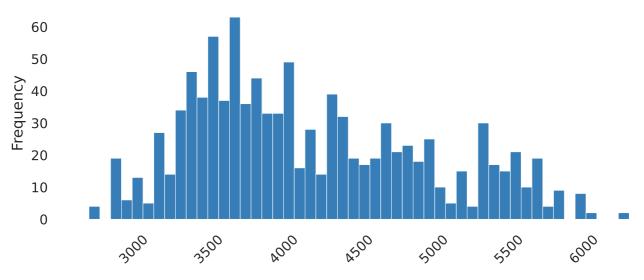
| Distinct           | 92        |
|--------------------|-----------|
| Distinct (%)       | 8.9%      |
| Missing            | 2         |
| Missing (%)        | 0.2%      |
| Infinite           | 0         |
| Infinite (%)       | 0.0%      |
| Mean               | 4169.2233 |
|                    |           |
| Minimum            | 2700      |
| Maximum            | 6300      |
| Zeros              | 0         |
|                    |           |
| Zeros (%)          | 0.0%      |
| Zeros (%) Negative | 0.0%      |
|                    |           |



#### Quantile statistics

| Minimum         | 2700 |
|-----------------|------|
| 5-th percentile | 3150 |
| Q1              | 3550 |
| median          | 4000 |

| Q3                              | 4718.75       |
|---------------------------------|---------------|
| 95-th percentile                | 5600          |
| Maximum                         | 6300          |
| Range                           | 3600          |
| Interquartile range (IQR)       | 1168.75       |
| Descriptive statistics          |               |
| Standard deviation              | 775.50221     |
| Coefficient of variation (CV)   | 0.1860064     |
| Kurtosis                        | -0.63226696   |
| Mean                            | 4169.2233     |
| Median Absolute Deviation (MAD) | 525           |
| Skewness                        | 0.53152124    |
| Sum                             | 4294300       |
| Variance                        | 601403.67     |
| Monotonicity                    | Not monotonic |



Histogram with fixed size bins (bins=50)

| Value             | Count | Frequency (%) |
|-------------------|-------|---------------|
| 3650              | 37    | 3.6%          |
| 3800              | 37    | 3.6%          |
| 4300              | 34    | 3.3%          |
| 3950              | 33    | 3.2%          |
| 4050              | 33    | 3.2%          |
| 4400              | 30    | 2.9%          |
| 3900              | 29    | 2.8%          |
| 3400              | 29    | 2.8%          |
| 3600              | 28    | 2.7%          |
| 3500              | 26    | 2.5%          |
| Other values (82) | 714   | 69.2%         |

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| 2700  | 4     | 0.4%          |
| 2850  | 4     | 0.4%          |
| 2900  | 15    | 1.5%          |
| 2975  | 6     | 0.6%          |
| 3000  | 4     | 0.4%          |
| 3050  | 9     | 0.9%          |
| 3075  | 4     | 0.4%          |
| 3100  | 1     | 0.1%          |
| 3150  | 6     | 0.6%          |
| 3175  | 4     | 0.4%          |

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| 6300  | 2     | 0.2%          |
| 6050  | 2     | 0.2%          |
| 6000  | 4     | 0.4%          |
| 5950  | 4     | 0.4%          |
| 5850  | 7     | 0.7%          |
| 5800  | 2     | 0.2%          |
| 5750  | 4     | 0.4%          |
| 5700  | 19    | 1.8%          |
| 5650  | 7     | 0.7%          |
| 5600  | 3     | 0.3%          |

#### sex Categorical

| Distinct     | 2        |
|--------------|----------|
| Distinct (%) | 0.2%     |
| Missing      | 23       |
| Missing (%)  | 2.2%     |
| Memory size  | 16.1 KiB |

## Length

| Max length    | 6         |
|---------------|-----------|
| Median length | 4         |
| Mean length   | 4.9851338 |
| Min length    | 4         |

#### Characters and Unicode

| Total characters    | 5030  |   |
|---------------------|---|---|
| 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     | 0    | ? |
|------------|------|---|
| Unique (%) | 0.0% |   |

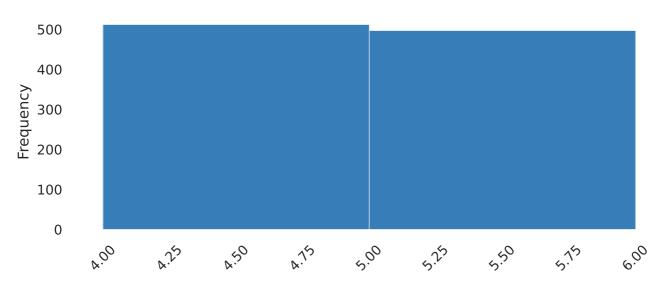
## Sample

| 1st row | female |
|---------|--------|
| 2nd row | female |
| 3rd row | male   |
| 4th row | female |
| 5th row | male   |

#### Common Values

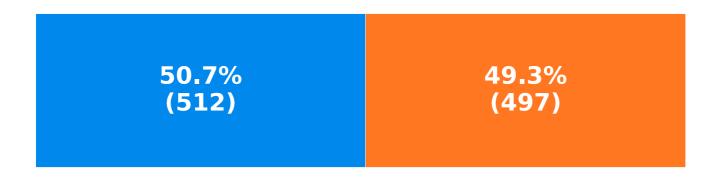
| Value     | Count | Frequency (%) |
|-----------|-------|---------------|
| male      | 512   | 49.6%         |
| female    | 497   | 48.2%         |
| (Missing) | 23    | 2.2%          |

#### Length



Histogram of lengths of the category

## Common Values (Plot)





| Value  | Count | Frequency (%) |
|--------|-------|---------------|
| male   | 512   | 50.7%         |
| female | 497   | 49.3%         |

## Most occurring characters

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| е     | 1506  | 29.9%         |
| m     | 1009  | 20.1%         |
| а     | 1009  | 20.1%         |
| I     | 1009  | 20.1%         |
| f     | 497   | 9.9%          |

## Most occurring categories

| Value            | Count | Frequency (%) |
|------------------|-------|---------------|
| Lowercase Letter | 5030  | 100.0%        |

## Most frequent character per category

#### Lowercase Letter

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| е     | 1506  | 29.9%         |
| m     | 1009  | 20.1%         |
| a     | 1009  | 20.1%         |
| 1     | 1009  | 20.1%         |
| f     | 497   | 9.9%          |

## Most occurring scripts

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| Latin | 5030  | 100.0%        |

## Most frequent character per script

#### Latin

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| е     | 1506  | 29.9%         |
| m     | 1009  | 20.1%         |
| a     | 1009  | 20.1%         |
| 1     | 1009  | 20.1%         |
| f     | 497   | 9.9%          |

## Most occurring blocks

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| ASCII | 5030  | 100.0%        |

## Most frequent character per block

#### ASCII

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| е     | 1506  | 29.9%         |
| m     | 1009  | 20.1%         |
| a     | 1009  | 20.1%         |
| 1     | 1009  | 20.1%         |
| f     | 497   | 9.9%          |

#### year Categorical

| Distinct     | 3        |
|--------------|----------|
| Distinct (%) | 0.3%     |
| Missing      | 0        |
| Missing (%)  | 0.0%     |
| Memory size  | 16.1 KiB |

## Length

| Max length    | 4 |
|---------------|---|
| Median length | 4 |
| Mean length   | 4 |
| Min length    | 4 |

#### Characters and Unicode

| Total characters    | 4128  |   |
|---------------------|---|---|
| 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     | 0    | ? |
|------------|------|---|
| Unique (%) | 0.0% |   |

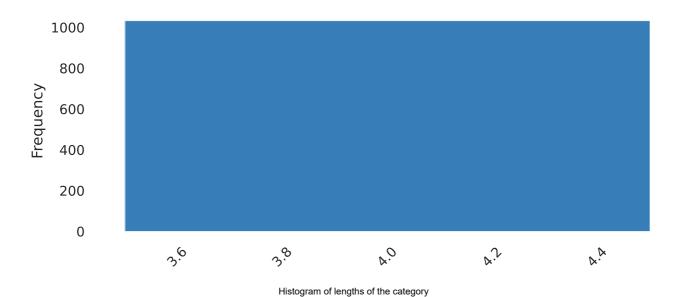
## Sample

| 1st row | 2009 |
|---------|------|
| 2nd row | 2008 |
| 3rd row | 2007 |
| 4th row | 2009 |
| 5th row | 2008 |

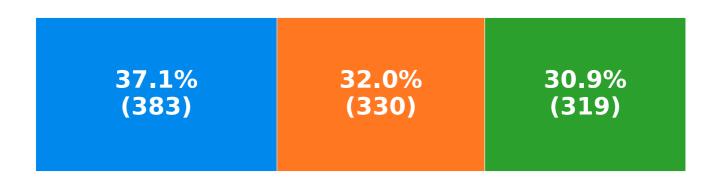
#### Common Values

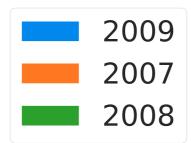
| Value | Count | Frequency (%) |
|-------|-------|---------------|
| 2009  | 383   | 37.1%         |
| 2007  | 330   | 32.0%         |
| 2008  | 319   | 30.9%         |

#### Length



#### Common Values (Plot)





| Value | Count | Frequency (%) |
|-------|-------|---------------|
| 2009  | 383   | 37.1%         |
| 2007  | 330   | 32.0%         |
| 2008  | 319   | 30.9%         |

## Most occurring characters

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| 0     | 2064  | 50.0%         |
| 2     | 1032  | 25.0%         |
| 9     | 383   | 9.3%          |
| 7     | 330   | 8.0%          |
| 8     | 319   | 7.7%          |

## Most occurring categories

| Value          | Count | Frequency (%) |
|----------------|-------|---------------|
| Decimal Number | 4128  | 100.0%        |

## Most frequent character per category

#### Decimal Number

| Value | Count | Frequency (%) |
|-------|-------|---------------|
| 0     | 2064  | 50.0%         |
| 2     | 1032  | 25.0%         |
| 9     | 383   | 9.3%          |
| 7     | 330   | 8.0%          |
| 8     | 319   | 7.7%          |

## Most occurring scripts

| Value  | Count | Frequency (%) |
|--------|-------|---------------|
| Common | 4128  | 100.0%        |

## Most frequent character per script

#### Common

| Value | Count | <b>Frequency (%)</b> 50.0% |  |
|-------|-------|----------------------------|--|
| 0     | 2064  |                            |  |
| 2     | 1032  | 25.0%                      |  |
| 9     | 383   | 9.3%                       |  |
| 7     | 330   | 8.0%                       |  |
| 8     | 319   | 7.7%                       |  |

## Most occurring blocks

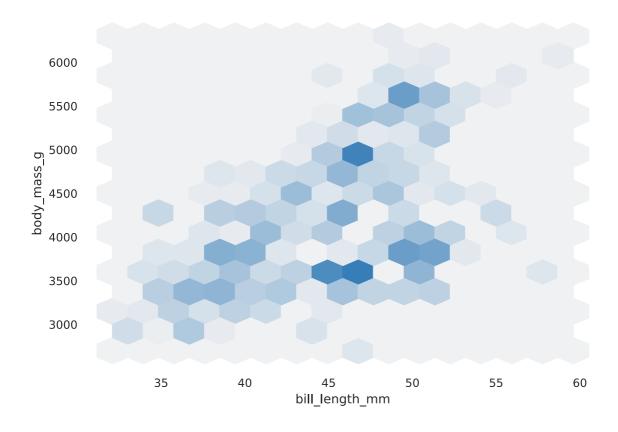
| Value | Count | Frequency (%) |
|-------|-------|---------------|
| ASCII | 4128  | 100.0%        |

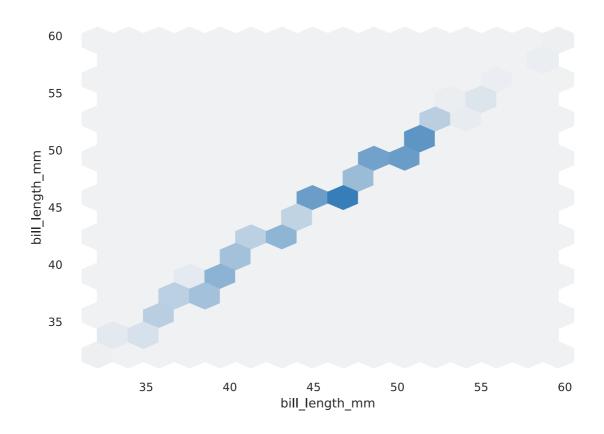
## Most frequent character per block

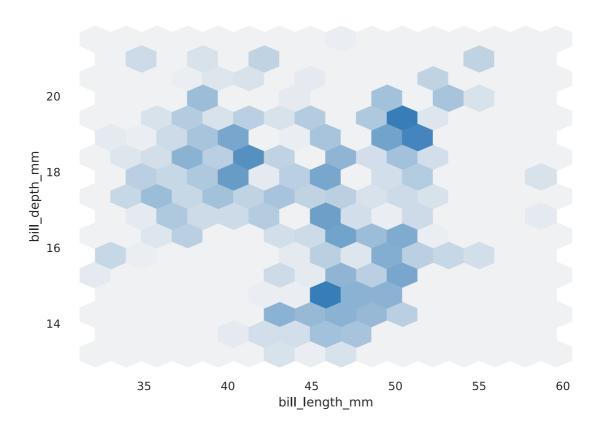
#### ASCII

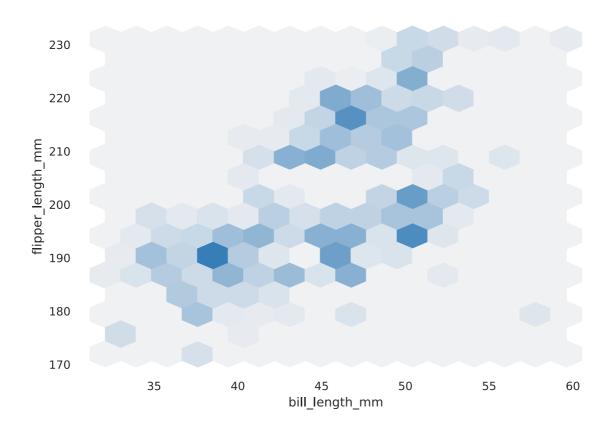
| Value | Count | <b>Frequency (%)</b> 50.0% |     |
|-------|-------|----------------------------|-----|
| 0     | 2064  |                            |     |
| 2     | 1032  | 25.0%                      |     |
| 9     | 383   | 9.                         | .3% |
| 7     | 330   | 8.                         | .0% |
| 8     | 319   | 7.                         | .7% |

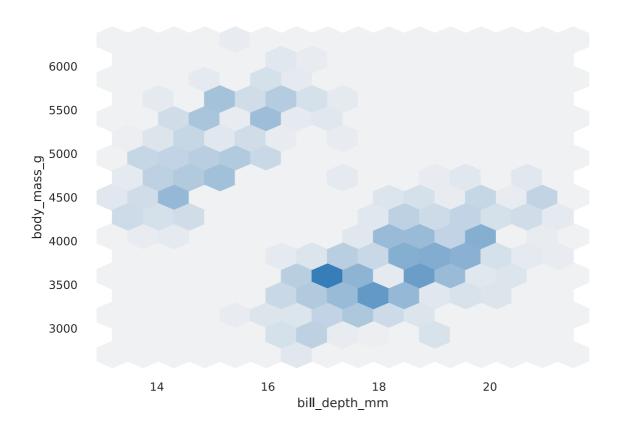
## Interactions

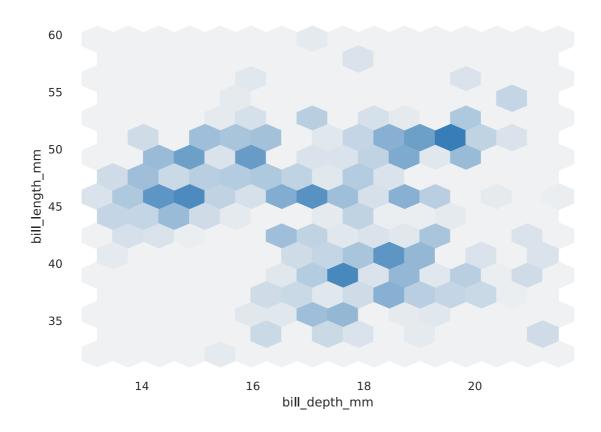


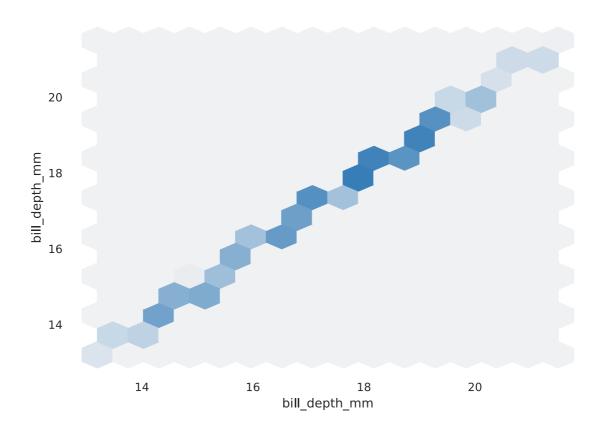


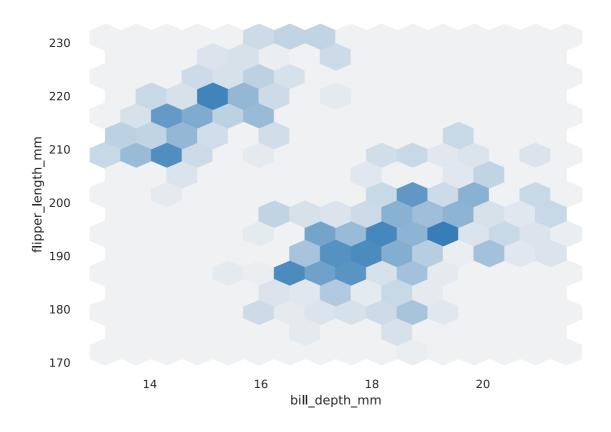


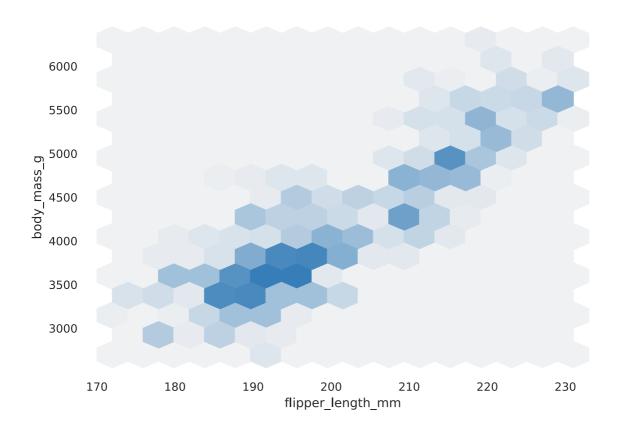


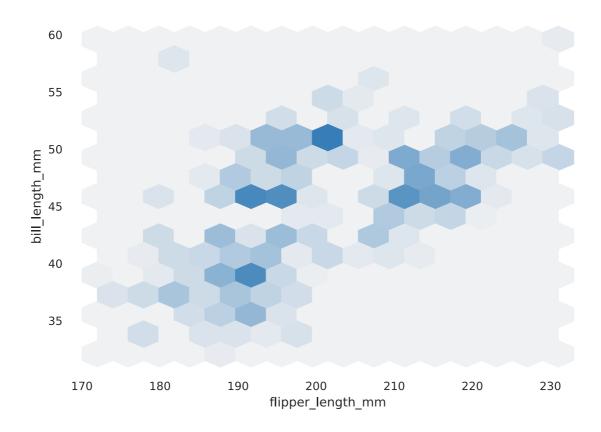


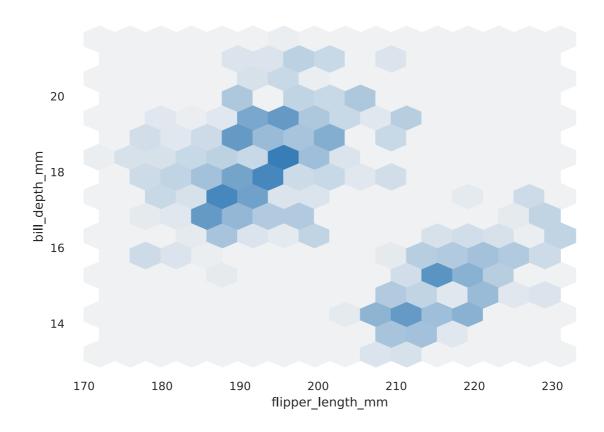


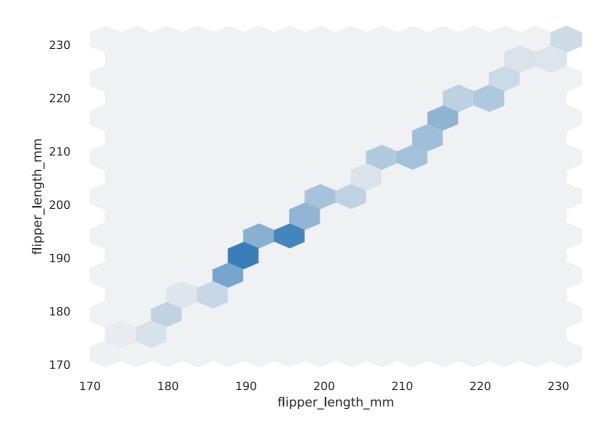


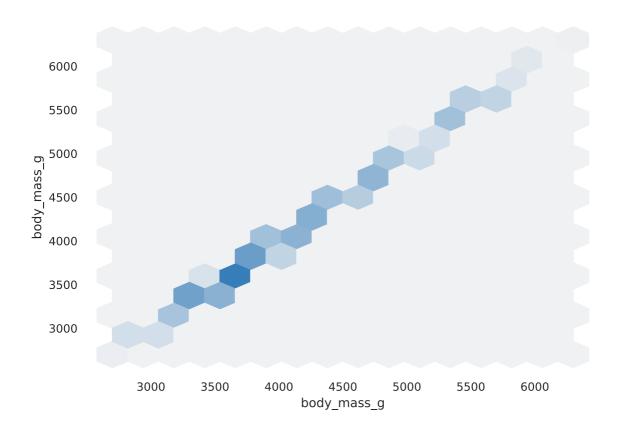


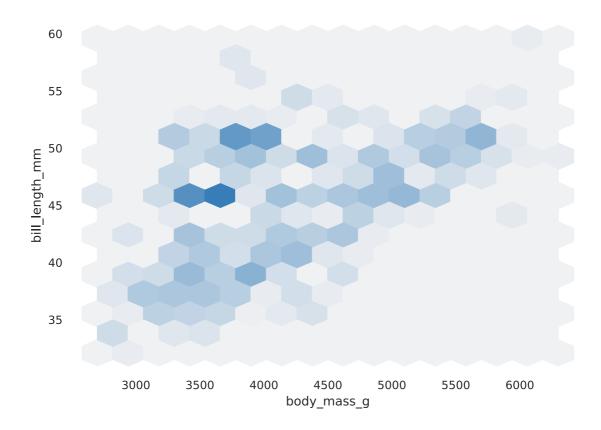


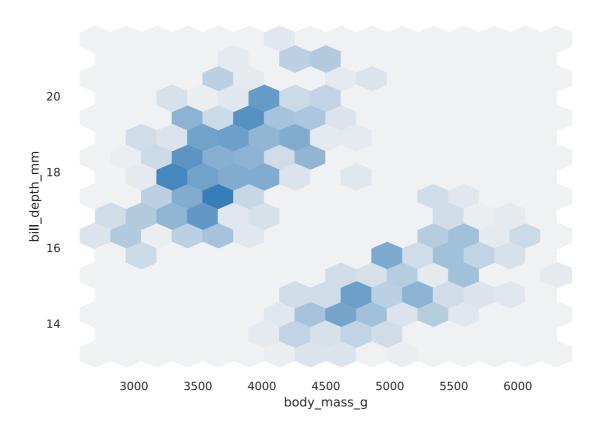


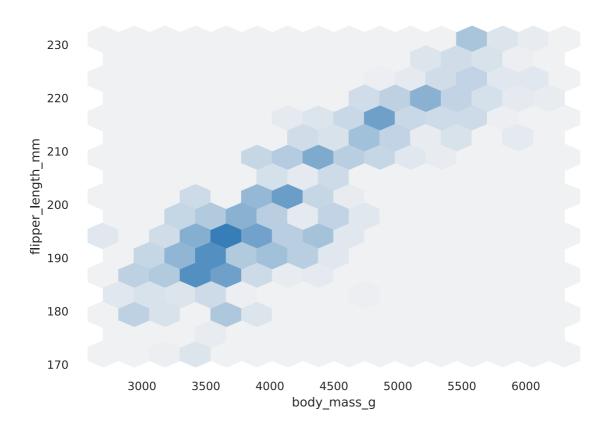




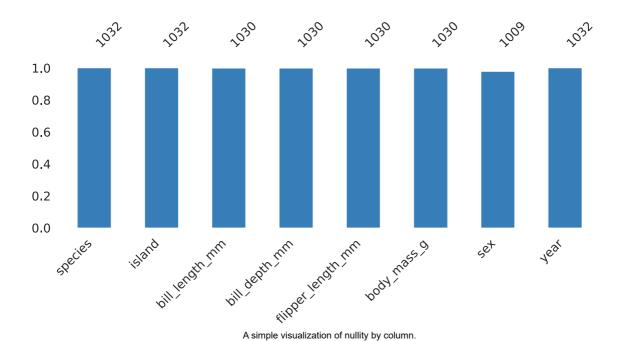


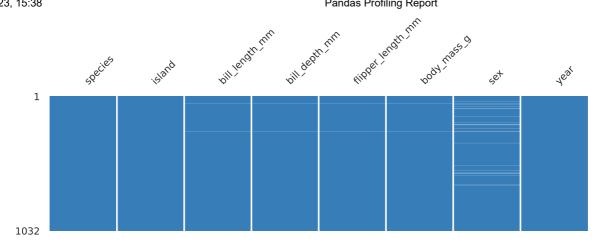




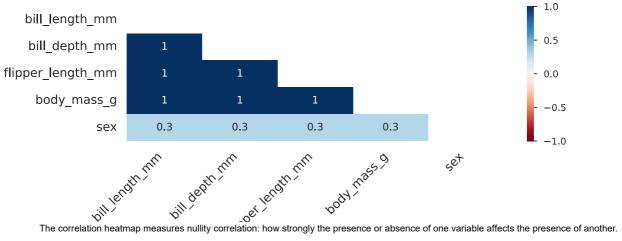


## Missing values





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



## Sample

|     | species | island    | bill_length_mm | bill_depth_mm | flipper_length_mm | body_mass_g | sex    | year |
|-----|---------|-----------|----------------|---------------|-------------------|-------------|--------|------|
| 102 | Adelie  | Biscoe    | 37.7           | 16.0          | 183.0             | 3075.0      | female | 2009 |
| 92  | Adelie  | Dream     | 34.0           | 17.1          | 185.0             | 3400.0      | female | 2008 |
| 14  | Adelie  | Torgersen | 34.6           | 21.1          | 198.0             | 4400.0      | male   | 2007 |
| 106 | Adelie  | Biscoe    | 38.6           | 17.2          | 199.0             | 3750.0      | female | 2009 |
| 71  | Adelie  | Torgersen | 39.7           | 18.4          | 190.0             | 3900.0      | male   | 2008 |
| 20  | Adelie  | Biscoe    | 37.8           | 18.3          | 174.0             | 3400.0      | female | 2007 |
| 102 | Adelie  | Biscoe    | 37.7           | 16.0          | 183.0             | 3075.0      | female | 2009 |
| 121 | Adelie  | Torgersen | 37.7           | 19.8          | 198.0             | 3500.0      | male   | 2009 |
| 74  | Adelie  | Torgersen | 35.5           | 17.5          | 190.0             | 3700.0      | female | 2008 |
| 87  | Adelie  | Dream     | 36.9           | 18.6          | 189.0             | 3500.0      | female | 2008 |
|     |         |           |                |               |                   |             |        |      |

|     | species   | island | bill_length_mm | bill_depth_mm | flipper_length_mm | body_mass_g | sex    | year |
|-----|-----------|--------|----------------|---------------|-------------------|-------------|--------|------|
| 338 | Chinstrap | Dream  | 45.7           | 17.0          | 195.0             | 3650.0      | female | 2009 |
| 294 | Chinstrap | Dream  | 46.4           | 18.6          | 190.0             | 3450.0      | female | 2007 |
| 333 | Chinstrap | Dream  | 49.3           | 19.9          | 203.0             | 4050.0      | male   | 2009 |
| 330 | Chinstrap | Dream  | 42.5           | 17.3          | 187.0             | 3350.0      | female | 2009 |
| 337 | Chinstrap | Dream  | 46.8           | 16.5          | 189.0             | 3650.0      | female | 2009 |
| 298 | Chinstrap | Dream  | 43.2           | 16.6          | 187.0             | 2900.0      | female | 2007 |
| 284 | Chinstrap | Dream  | 46.0           | 18.9          | 195.0             | 4150.0      | female | 2007 |
| 287 | Chinstrap | Dream  | 51.7           | 20.3          | 194.0             | 3775.0      | male   | 2007 |
| 276 | Chinstrap | Dream  | 46.5           | 17.9          | 192.0             | 3500.0      | female | 2007 |
| 333 | Chinstrap | Dream  | 49.3           | 19.9          | 203.0             | 4050.0      | male   | 2009 |

## **Duplicate rows**

## Most frequently occurring

|     | species   | island | bill_length_mm | bill_depth_mm | flipper_length_mm | body_mass_g | sex    | year | # duplicates |
|-----|-----------|--------|----------------|---------------|-------------------|-------------|--------|------|--------------|
| 118 | Chinstrap | Dream  | 46.8           | 16.5          | 189.0             | 3650.0      | female | 2009 | 14           |
| 193 | Gentoo    | Biscoe | 46.2           | 14.9          | 221.0             | 5300.0      | male   | 2008 | 12           |
| 98  | Chinstrap | Dream  | 42.5           | 16.7          | 187.0             | 3350.0      | female | 2008 | 10           |
| 106 | Chinstrap | Dream  | 45.6           | 19.4          | 194.0             | 3525.0      | female | 2009 | 10           |
| 133 | Chinstrap | Dream  | 50.0           | 19.5          | 196.0             | 3900.0      | male   | 2007 | 10           |
| 140 | Chinstrap | Dream  | 50.6           | 19.4          | 193.0             | 3800.0      | male   | 2007 | 9            |
| 109 | Chinstrap | Dream  | 45.9           | 17.1          | 190.0             | 3575.0      | female | 2007 | 8            |
| 126 | Chinstrap | Dream  | 49.0           | 19.6          | 212.0             | 4300.0      | male   | 2009 | 8            |
| 128 | Chinstrap | Dream  | 49.3           | 19.9          | 203.0             | 4050.0      | male   | 2009 | 8            |
| 141 | Chinstrap | Dream  | 50.7           | 19.7          | 203.0             | 4050.0      | male   | 2009 | 8            |
|     |           |        |                |               |                   |             |        |      |              |

Report generated by YData (https://ydata.ai/?utm\_source=opensource&utm\_medium=pandasprofiling&utm\_campaign=report).