

## The CONTENTS Procedure

|                            |                           |                             |     |
|----------------------------|---------------------------|-----------------------------|-----|
| <b>Data Set Name</b>       | BINARY.SLEEP              | <b>Observations</b>         | 62  |
| <b>Member Type</b>         | DATA                      | <b>Variables</b>            | 16  |
| <b>Engine</b>              | V9                        | <b>Indexes</b>              | 0   |
| <b>Created</b>             | 06/27/2019 10:04:08       | <b>Observation Length</b>   | 144 |
| <b>Last Modified</b>       | 06/27/2019 10:04:08       | <b>Deleted Observations</b> | 0   |
| <b>Protection</b>          |                           | <b>Compressed</b>           | NO  |
| <b>Data Set Type</b>       |                           | <b>Sorted</b>               | YES |
| <b>Label</b>               |                           |                             |     |
| <b>Data Representation</b> | WINDOWS_64                |                             |     |
| <b>Encoding</b>            | wlatin1 Western (Windows) |                             |     |

| Engine/Host Dependent Information |   |
|-----------------------------------|---|
| <b>Data Set Page Size</b>         | 65536   |
| <b>Number of Data Set Pages</b>   | 1   |
| <b>First Data Page</b>            | 1   |
| <b>Max Obs per Page</b>           | 454   |
| <b>Obs in First Data Page</b>     | 62  |
| <b>Number of Data Set Repairs</b> | 0   |
| <b>ExtendObsCounter</b>           | YES   |
| <b>Filename</b>                   | c:\Users\simons\My Documents\SASUniversityEdition\myfolders\introduction-to-sas\part1\data\sleep.sas7bdat |
| <b>Release Created</b>            | 9.0401M1  |
| <b>Host Created</b>               | X64_7PRO  |

| Variables in Creation Order |              |      |     |          |   |
|-----------------------------|--------------|------|-----|----------|---|
| #                           | Variable     | Type | Len | Informat | Label   |
| 1                           | species      | Char | 24  | \$24.    |   |
| 2                           | bodywt       | Num  | 8   |          | body weight (kg)  |
| 3                           | brainwt      | Num  | 8   |          | brain weight (g)  |
| 4                           | nondreaming  | Char | 8   |          | slow wave (nondreaming) sleep (hrs/day)                       |
| 5                           | dreaming     | Char | 8   |          | paradoxical (dreaming) sleep (hrs/day)                        |
| 6                           | totalsleep   | Char | 8   |          | total sleep, sum of slow wave and paradoxical sleep (hrs/day) |
| 7                           | lifespan     | Char | 8   |          | maximum life span (years)                                     |
| 8                           | gestation    | Char | 8   |          | gestation time (days)   |
| 9                           | predation    | Num  | 8   |          | predation index (1-5) 1 = least predated                      |
| 10                          | exposure     | Num  | 8   |          | sleep exposure index (1-5) 1 = least exposed                  |
| 11                          | danger       | Num  | 8   |          | overall danger index (1-5) (based on predation and exposure)  |
| 12                          | nondreaming1 | Num  | 8   |          |   |

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| Variables in Creation Order |             |      |     |          |       |
|-----------------------------|-------------|------|-----|----------|-------|
| #                           | Variable    | Type | Len | Informat | Label |
| 13                          | dreaming1   | Num  | 8   |          |       |
| 14                          | totalsleep1 | Num  | 8   |          |       |
| 15                          | lifespan1   | Num  | 8   |          |       |
| 16                          | gestation1  | Num  | 8   |          |       |

| Sort Information |                   |
|------------------|-------------------|
| Sortedby         | DESCENDING bodywt |
| Validated        | YES               |
| Character Set    | ANSI              |

## The CONTENTS Procedure

|                            |                           |                             |     |
|----------------------------|---------------------------|-----------------------------|-----|
| <b>Data Set Name</b>       | WORK.XFER                 | <b>Observations</b>         | 62  |
| <b>Member Type</b>         | DATA                      | <b>Variables</b>            | 11  |
| <b>Engine</b>              | V9                        | <b>Indexes</b>              | 0   |
| <b>Created</b>             | 06/27/2019 10:04:26       | <b>Observation Length</b>   | 104 |
| <b>Last Modified</b>       | 06/27/2019 10:04:26       | <b>Deleted Observations</b> | 0   |
| <b>Protection</b>          |                           | <b>Compressed</b>           | NO  |
| <b>Data Set Type</b>       |                           | <b>Sorted</b>               | NO  |
| <b>Label</b>               |                           |                             |     |
| <b>Data Representation</b> | WINDOWS_64                |                             |     |
| <b>Encoding</b>            | wlatin1 Western (Windows) |                             |     |

| Engine/Host Dependent Information |   |
|-----------------------------------|---|
| <b>Data Set Page Size</b>         | 65536   |
| <b>Number of Data Set Pages</b>   | 1   |
| <b>First Data Page</b>            | 1   |
| <b>Max Obs per Page</b>           | 629   |
| <b>Obs in First Data Page</b>     | 62  |
| <b>Number of Data Set Repairs</b> | 0   |
| <b>ExtendObsCounter</b>           | YES   |
| <b>Filename</b>                   | C:\Users\simons\AppData\Local\Temp\SAS Temporary Files\TD12532_KC-MED-917PFJ1_xfer.sas7bdat |
| <b>Release Created</b>            | 9.0401M1  |
| <b>Host Created</b>               | X64_7PRO  |

| Variables in Creation Order |             |      |     |          |  |
|-----------------------------|-------------|------|-----|----------|--|
| #                           | Variable    | Type | Len | Informat | Label  |
| 1                           | species     | Char | 24  | \$24.    |  |
| 2                           | bodywt      | Num  | 8   |          | body weight (kg)   |
| 3                           | brainwt     | Num  | 8   |          | brain weight (g)   |
| 4                           | predation   | Num  | 8   |          | predation index (1-5) 1 = least predated                     |
| 5                           | exposure    | Num  | 8   |          | sleep exposure index (1-5) 1 = least exposed                 |
| 6                           | danger      | Num  | 8   |          | overall danger index (1-5) (based on predation and exposure) |
| 7                           | nondreaming | Num  | 8   |          |  |
| 8                           | dreaming    | Num  | 8   |          |  |
| 9                           | totalsleep  | Num  | 8   |          |  |
| 10                          | lifespan    | Num  | 8   |          |  |
| 11                          | gestation   | Num  | 8   |          |  |

| Obs | species         | bodywt |
|-----|-----------------|--------|
| 1   | Africanelephant | 6654.0 |
| 2   | Asianelephant   | 2547.0 |
| 3   | Giraffe         | 529.0  |
| 4   | Horse           | 521.0  |
| 5   | Cow             | 465.0  |
| 6   | Okapi           | 250.0  |
| 7   | Gorilla         | 207.0  |
| 8   | Pig             | 192.0  |
| 9   | Donkey          | 187.1  |
| 10  | Braziliantapir  | 160.0  |

## The smallest body weight

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| Obs | species                 | bodywt | brainwt | nondreaming | dreaming | totalsleep | lifespan | gestation | predation |
|-----|-------------------------|--------|---------|-------------|----------|------------|----------|-----------|-----------|
| 1   | Lessershort-tailedshrew | .005   | 0.14    | 7.7         | 1.4      | 9.1        | 2.6      | 21.5      | 5         |

| Obs | exposure | danger | nondreaming1 | dreaming1 | totalsleep1 | lifespan1 | gestation1 |
|-----|----------|--------|--------------|-----------|-------------|-----------|------------|
| 1   | 2        | 4      | 7.7          | 1.4       | 9.1         | 2.6       | 21.5       |

## The largest body weight

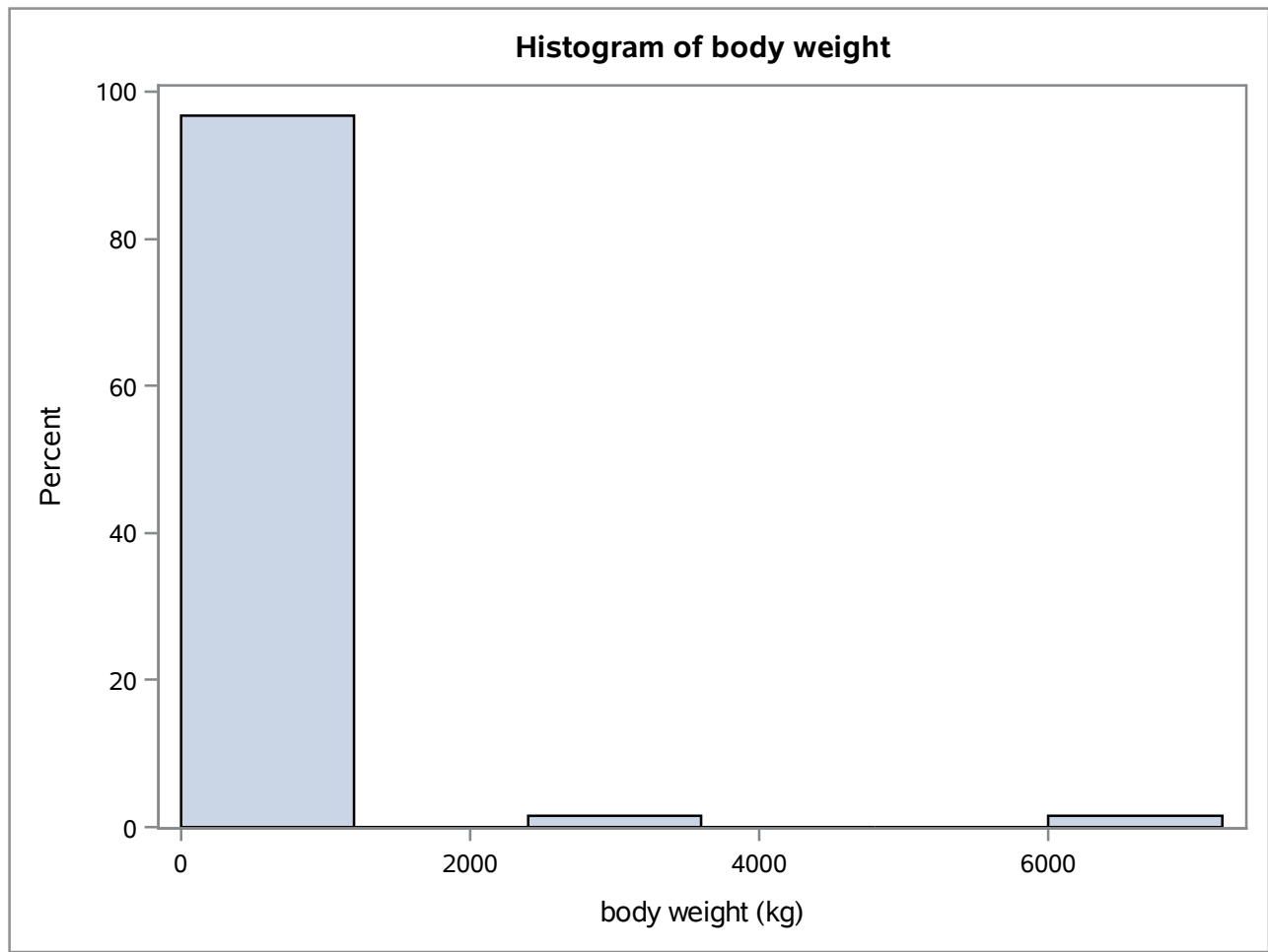
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| Obs | species         | bodywt | brainwt | nondreaming | dreaming | totalsleep | lifespan | gestation | predation |
|-----|-----------------|--------|---------|-------------|----------|------------|----------|-----------|-----------|
| 1   | Africanelephant | 6654   | 5712    | NA          | NA       | 3.3        | 38.6     | 645       | 3         |

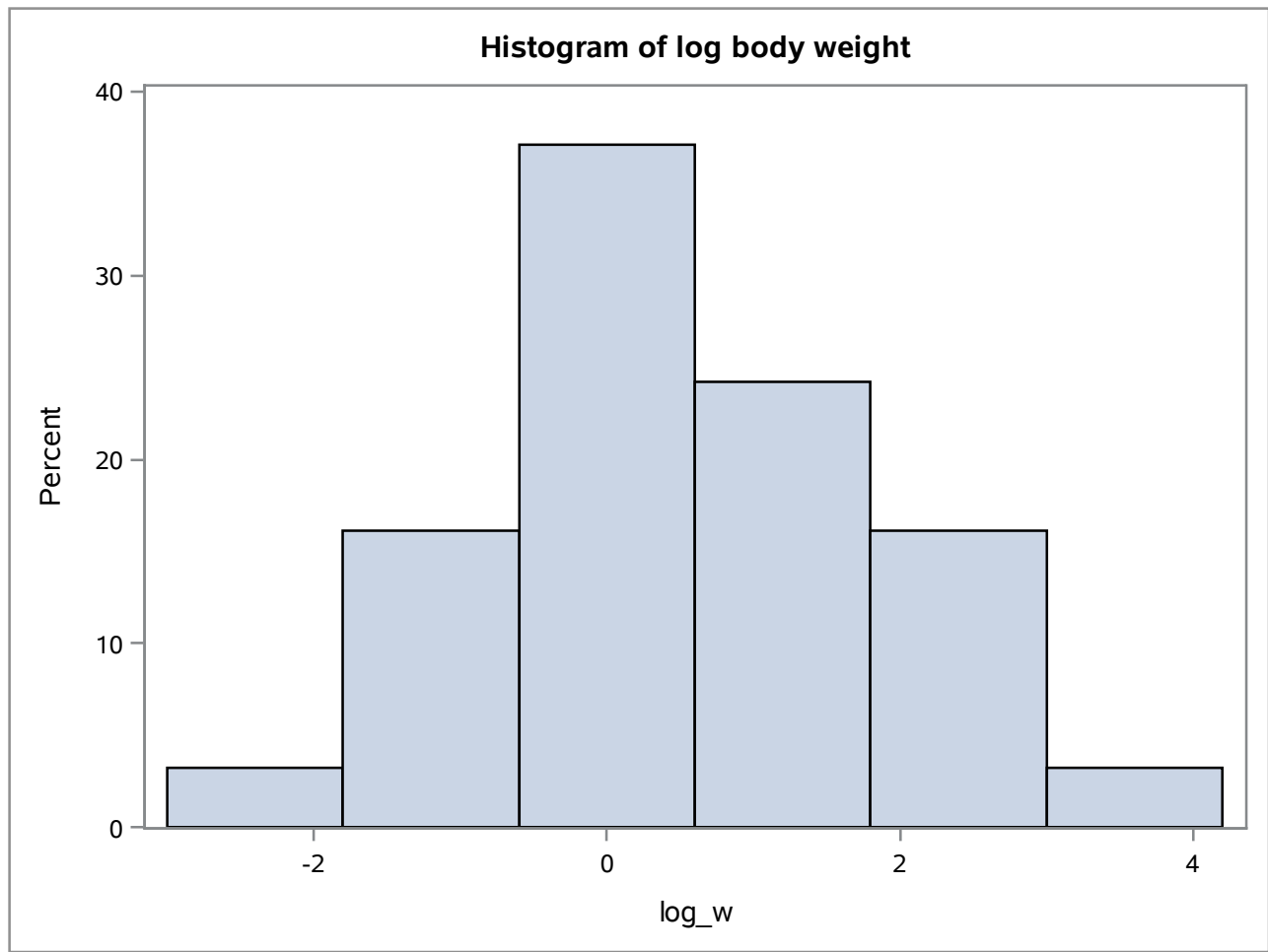
| Obs | exposure | danger | nondreaming1 | dreaming1 | totalsleep1 | lifespan1 | gestation1 |
|-----|----------|--------|--------------|-----------|-------------|-----------|------------|
| 1   | 5        | 3      | .            | .         | 3.3         | 38.6      | 645        |

## The MEANS Procedure

| Variable     | Label  | N  | Mean        | Std Dev     | Minimum    | Maximum     |
|--------------|--|----|-------------|-------------|------------|-------------|
| bodywt       | body weight (kg)   | 62 | 198.7899839 | 899.1580105 | 0.0050000  | 6654.00     |
| brainwt      | brain weight (g)   | 62 | 283.1341935 | 930.2789423 | 0.1400000  | 5712.00     |
| nondreaming1 |  | 48 | 8.6729167   | 3.6664517   | 2.1000000  | 17.9000000  |
| dreaming1    |  | 50 | 1.9720000   | 1.4426506   | 0          | 6.6000000   |
| totalsleep1  |  | 58 | 10.5327586  | 4.6067604   | 2.6000000  | 19.9000000  |
| lifespan1    |  | 58 | 19.8775862  | 18.2062554  | 2.0000000  | 100.0000000 |
| gestation1   |  | 58 | 142.3534483 | 146.8050387 | 12.0000000 | 645.0000000 |
| predation    | predation index (1-5) 1 = least predated                     | 62 | 2.8709677   | 1.4764143   | 1.0000000  | 5.0000000   |
| exposure     | sleep exposure index (1-5) 1 = least exposed                 | 62 | 2.4193548   | 1.6047919   | 1.0000000  | 5.0000000   |
| danger       | overall danger index (1-5) (based on predation and exposure) | 62 | 2.6129032   | 1.4412522   | 1.0000000  | 5.0000000   |







## Lowest brain to body ratio

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| Obs | species         | bodywt | brainwt | nondreaming | dreaming | totalsleep | lifespan | gestation | predation | exposure |
|-----|-----------------|--------|---------|-------------|----------|------------|----------|-----------|-----------|----------|
| 1   | Africanelephant | 6654   | 5712    | NA          | NA       | 3.3        | 38.6     | 645       | 3         | 5        |

| Obs | danger | nondreaming1 | dreaming1 | totalsleep1 | lifespan1 | gestation1 | brain_body_ratio |
|-----|--------|--------------|-----------|-------------|-----------|------------|------------------|
| 1   | 3      | .            | .         | 3.3         | 38.6      | 645        | 0.085843         |

## Highest brain to body ratio

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| Obs | species        | bodywt | brainwt | nondreaming | dreaming | totalsleep | lifespan | gestation | predation | exposure |
|-----|----------------|--------|---------|-------------|----------|------------|----------|-----------|-----------|----------|
| 1   | Groundsquirrel | 0.101  | 4       | 10.4        | 3.4      | 13.8       | 9        | 28        | 5         | 1        |

| Obs | danger | nondreaming1 | dreaming1 | totalsleep1 | lifespan1 | gestation1 | brain_body_ratio |
|-----|--------|--------------|-----------|-------------|-----------|------------|------------------|
| 1   | 3      | 10.4         | 3.4       | 13.8        | 9         | 28         | 3.96040          |