CODE BOOK - Getting & Cleaning Data - mydata
May 2015

Information for original UNSUMMARIZED data here:

http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones

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===

   mydata.subject

   Storage mode: integer
   Measurement: interval

           Min: 1.000
           Max: 30.000
          Mean: 15.500
     Std.Dev.:   8.655
     Skewness: 0.000
     Kurtosis: -1.203

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   mydata.activityname

   Storage mode: integer
   Measurement: nominal

         Values and labels   N   Percent

   1   'LAYING'   30   16.7 16.7
   2   'SITTING'   30   16.7 16.7
   3   'STANDING'   30   16.7 16.7
   4   'WALKING'   30   16.7 16.7
   5   'WALKING_DOWNSTAIRS'   30   16.7 16.7
   6   'WALKING_UPSTAIRS'   30   16.7 16.7

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   mydata.timebodyaccelerationmeanx

   Storage mode: double
   Measurement: interval

           Min: 0.222
           Max: 0.301
          Mean: 0.274
     Std.Dev.:   0.012
     Skewness: -1.055
     Kurtosis: 2.329

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    mydata.timebodyaccelerationmeany

    Storage mode: double
    Measurement: interval

            Min: -0.041
            Max: -0.001
           Mean: -0.018
       Std.Dev.:   0.006
       Skewness: -0.537
       Kurtosis: 1.612

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    mydata.timebodyaccelerationmeanz

    Storage mode: double
    Measurement: interval

            Min: -0.153
            Max: -0.075
           Mean: -0.109
       Std.Dev.:   0.010
       Skewness: -1.115
       Kurtosis: 4.910

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    mydata.timebodyaccelerationstdx

    Storage mode: double
    Measurement: interval

            Min: -0.996
            Max: 0.627
           Mean: -0.558
       Std.Dev.:   0.450
       Skewness: 0.438
       Kurtosis: -1.216

==
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    mydata.timebodyaccelerationstdy


```
    Storage mode: double
    Measurement: interval

            Min:   -0.990
            Max:    0.617
           Mean:   -0.460
      Std.Dev.:    0.495
       Skewness:   0.235
       Kurtosis:  -1.586
```

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==

    mydata.timebodyaccelerationstdz


```
    Storage mode: double
    Measurement: interval

            Min:   -0.988
            Max:    0.609
           Mean:   -0.576
      Std.Dev.:    0.394
       Skewness:   0.451
       Kurtosis:  -1.026
```

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    mydata.timegravityaccelerationmeanx


```
    Storage mode: double
    Measurement: interval

            Min:   -0.680
            Max:    0.975
           Mean:    0.697
      Std.Dev.:    0.486
       Skewness:  -1.811
       Kurtosis:   1.452
```

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    mydata.timegravityaccelerationmeany


```
    Storage mode: double
    Measurement: interval

            Min:   -0.480
            Max:    0.957
           Mean:   -0.016
      Std.Dev.:    0.344
       Skewness:   1.427
       Kurtosis:   1.051
```

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==

   mydata.timegravityaccelerationmeanz

   Storage mode: double
   Measurement: interval

             Min: -0.495
             Max: 0.958
            Mean: 0.074
      Std.Dev.:   0.288
      Skewness: 1.145
      Kurtosis: 1.208

==
==

   mydata.timegravityaccelerationstdx

   Storage mode: double
   Measurement: interval

             Min: -0.997
             Max: -0.830
            Mean: -0.964
      Std.Dev.:   0.025
      Skewness: 1.669
      Kurtosis: 5.051

==
==

   mydata.timegravityaccelerationstdy

   Storage mode: double
   Measurement: interval

             Min: -0.994
             Max: -0.644
            Mean: -0.952
      Std.Dev.:   0.033
      Skewness: 4.817
      Kurtosis: 42.501

==
==

   mydata.timegravityaccelerationstdz


```
Storage mode: double
Measurement: interval

        Min:   -0.991
        Max:   -0.610
       Mean:   -0.936
  Std.Dev.:    0.040
   Skewness:   3.248
   Kurtosis:  22.288
```

==
==

    mydata.timebodyaccelerationjerkmeanx


```
Storage mode: double
Measurement: interval

        Min:    0.043
        Max:    0.130
       Mean:    0.079
  Std.Dev.:     0.013
   Skewness:    0.821
   Kurtosis:    2.560
```

==
==

    mydata.timebodyaccelerationjerkmeany


```
Storage mode: double
Measurement: interval

        Min:   -0.039
        Max:    0.057
       Mean:    0.008
  Std.Dev.:     0.014
   Skewness:   -0.192
   Kurtosis:    1.606
```

==
==

    mydata.timebodyaccelerationjerkmeanz


```
Storage mode: double
Measurement: interval

        Min:   -0.067
        Max:    0.038
       Mean:   -0.005
  Std.Dev.:     0.013
   Skewness:   -0.835
   Kurtosis:    3.525
```

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===

   mydata.timebodyaccelerationjerkstdx

   Storage mode: double
   Measurement: interval

           Min: -0.995
           Max: 0.544
          Mean: -0.595
      Std.Dev.:   0.416
      Skewness: 0.424
      Kurtosis: -1.273

==
===

   mydata.timebodyaccelerationjerkstdy

   Storage mode: double
   Measurement: interval

           Min: -0.990
           Max: 0.355
          Mean: -0.565
      Std.Dev.:   0.432
      Skewness: 0.362
      Kurtosis: -1.450

==
===

   mydata.timebodyaccelerationjerkstdz

   Storage mode: double
   Measurement: interval

           Min: -0.993
           Max: 0.031
          Mean: -0.736
      Std.Dev.:   0.276
      Skewness: 0.679
      Kurtosis: -0.681

==
===

   mydata.timebodygyroscopemeanx


```
Storage mode: double
Measurement: interval

        Min:   -0.206
        Max:    0.193
       Mean:   -0.032
  Std.Dev.:    0.054
  Skewness:    0.341
  Kurtosis:    2.391
```

==
===

    mydata.timebodygyroscopemeany


```
Storage mode: double
Measurement: interval

        Min:   -0.204
        Max:    0.027
       Mean:   -0.074
  Std.Dev.:    0.035
  Skewness:   -0.286
  Kurtosis:    2.070
```

==
===

    mydata.timebodygyroscopemeanz


```
Storage mode: double
Measurement: interval

        Min:   -0.072
        Max:    0.179
       Mean:    0.087
  Std.Dev.:    0.036
  Skewness:   -0.781
  Kurtosis:    3.224
```

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===

    mydata.timebodygyroscopestdx


```
Storage mode: double
Measurement: interval

        Min:   -0.994
        Max:    0.268
       Mean:   -0.692
  Std.Dev.:    0.290
  Skewness:    0.391
  Kurtosis:   -1.073
```

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    mydata.timebodygyroscopestdy

    Storage mode: double
    Measurement: interval

          Min: -0.994
          Max: 0.477
         Mean: -0.653
   Std.Dev.:   0.351
   Skewness: 0.731
   Kurtosis: -0.458

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    mydata.timebodygyroscopestdz

    Storage mode: double
    Measurement: interval

          Min: -0.986
          Max: 0.565
         Mean: -0.616
   Std.Dev.:   0.372
   Skewness: 0.531
   Kurtosis: -0.798

==
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    mydata.timebodygyroscopejerkmeanx

    Storage mode: double
    Measurement: interval

          Min: -0.157
          Max: -0.022
         Mean: -0.096
   Std.Dev.:   0.023
   Skewness: 0.485
   Kurtosis: 1.825

==
==

    mydata.timebodygyroscopejerkmeany


```
Storage mode: double
Measurement: interval

        Min:   -0.077
        Max:   -0.013
       Mean:   -0.043
  Std.Dev.:    0.010
  Skewness:   -0.814
  Kurtosis:    2.785
```

==
===

    mydata.timebodygyroscopejerkmeanz


```
Storage mode: double
Measurement: interval

        Min:   -0.092
        Max:   -0.007
       Mean:   -0.055
  Std.Dev.:    0.012
  Skewness:    0.258
  Kurtosis:    1.867
```

==
===

    mydata.timebodygyroscopejerkstdx


```
Storage mode: double
Measurement: interval

        Min:   -0.997
        Max:    0.179
       Mean:   -0.704
  Std.Dev.:    0.300
  Skewness:    0.554
  Kurtosis:   -0.916
```

==
===

    mydata.timebodygyroscopejerkstdy


```
Storage mode: double
Measurement: interval

        Min:   -0.997
        Max:    0.296
       Mean:   -0.764
  Std.Dev.:    0.267
  Skewness:    1.156
  Kurtosis:    1.064
```

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===

mydata.timebodygyroscopejerkstdz

Storage mode: double
Measurement: interval

         Min: -0.995
         Max: 0.193
        Mean: -0.710
   Std.Dev.:   0.304
   Skewness: 0.649
   Kurtosis: -0.652

==
===

mydata.timebodyaccelerationmagnitudemean

Storage mode: double
Measurement: interval

         Min: -0.986
         Max: 0.645
        Mean: -0.497
   Std.Dev.:   0.472
   Skewness: 0.231
   Kurtosis: -1.587

==
===

mydata.timebodyaccelerationmagnitudestd

Storage mode: double
Measurement: interval

         Min: -0.986
         Max: 0.428
        Mean: -0.544
   Std.Dev.:   0.430
   Skewness: 0.464
   Kurtosis: -1.194

==
===

mydata.timegravityaccelerationmagnitudemean


```
    Storage mode: double
    Measurement: interval

            Min:    -0.986
            Max:     0.645
            Mean:   -0.497
       Std.Dev.:     0.472
       Skewness:     0.231
       Kurtosis:    -1.587
```

==
==

    mydata.timegravityaccelerationmagnitudestd


```
    Storage mode: double
    Measurement: interval

            Min:    -0.986
            Max:     0.428
            Mean:   -0.544
       Std.Dev.:     0.430
       Skewness:     0.464
       Kurtosis:    -1.194
```

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    mydata.timebodyaccelerationjerkmagnitudemean


```
    Storage mode: double
    Measurement: interval

            Min:    -0.993
            Max:     0.434
            Mean:   -0.608
       Std.Dev.:     0.395
       Skewness:     0.360
       Kurtosis:    -1.388
```

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    mydata.timebodyaccelerationjerkmagnitudestd


```
    Storage mode: double
    Measurement: interval

            Min:    -0.995
            Max:     0.451
            Mean:   -0.584
       Std.Dev.:     0.422
       Skewness:     0.425
       Kurtosis:    -1.319
```

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mydata.timebodygyroscopemagnitudemean

Storage mode: double
Measurement: interval

                Min: -0.981
                Max: 0.418
               Mean: -0.565
          Std.Dev.:   0.397
          Skewness: 0.313
          Kurtosis: -1.422

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mydata.timebodygyroscopemagnitudestd

Storage mode: double
Measurement: interval

                Min: -0.981
                Max: 0.300
               Mean: -0.630
          Std.Dev.:   0.336
          Skewness: 0.482
          Kurtosis: -1.027

===
===

mydata.timebodygyroscopejerkmagnitudemean

Storage mode: double
Measurement: interval

                Min: -0.997
                Max: 0.088
               Mean: -0.736
          Std.Dev.:   0.276
          Skewness: 0.660
          Kurtosis: -0.646

===
===

mydata.timebodygyroscopejerkmagnitudestd


```
Storage mode: double
Measurement: interval

        Min:   -0.998
        Max:    0.250
        Mean:  -0.755
   Std.Dev.:    0.265
   Skewness:    1.016
   Kurtosis:    0.546
```

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mydata.freqbodyaccelerationmeanx


```
Storage mode: double
Measurement: interval

        Min:   -0.995
        Max:    0.537
        Mean:  -0.576
   Std.Dev.:    0.429
   Skewness:    0.391
   Kurtosis:   -1.328
```

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mydata.freqbodyaccelerationmeany


```
Storage mode: double
Measurement: interval

        Min:   -0.989
        Max:    0.524
        Mean:  -0.489
   Std.Dev.:    0.479
   Skewness:    0.259
   Kurtosis:   -1.567
```

==
==

mydata.freqbodyaccelerationmeanz


```
Storage mode: double
Measurement: interval

        Min:   -0.989
        Max:    0.281
        Mean:  -0.630
   Std.Dev.:    0.355
   Skewness:    0.470
   Kurtosis:   -1.073
```

==
==

    mydata.freqbodyaccelerationstdx

    Storage mode: double
    Measurement: interval

            Min: -0.997
            Max: 0.659
           Mean: -0.552
      Std.Dev.:   0.459
      Skewness: 0.469
      Kurtosis: -1.145

==
==

    mydata.freqbodyaccelerationstdy

    Storage mode: double
    Measurement: interval

            Min: -0.991
            Max: 0.560
           Mean: -0.481
      Std.Dev.:   0.473
      Skewness: 0.244
      Kurtosis: -1.566

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    mydata.freqbodyaccelerationstdz

    Storage mode: double
    Measurement: interval

            Min: -0.987
            Max: 0.687
           Mean: -0.582
      Std.Dev.:   0.387
      Skewness: 0.518
      Kurtosis: -0.808

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    mydata.freqbodyaccelerationmeanfreqx


```
     Storage mode: double
     Measurement: interval

             Min:   -0.636
             Max:    0.159
            Mean:   -0.232
       Std.Dev.:     0.193
        Skewness:    0.151
        Kurtosis:   -1.090
```

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    mydata.freqbodyaccelerationmeanfreqy


```
     Storage mode: double
     Measurement: interval

             Min:   -0.380
             Max:    0.467
            Mean:    0.012
       Std.Dev.:     0.144
        Skewness:    0.155
        Kurtosis:    0.334
```

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    mydata.freqbodyaccelerationmeanfreqz


```
     Storage mode: double
     Measurement: interval

             Min:   -0.520
             Max:    0.403
            Mean:    0.044
       Std.Dev.:     0.184
        Skewness:   -0.801
        Kurtosis:    0.702
```

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==

    mydata.freqbodyaccelerationjerkmeanx


```
     Storage mode: double
     Measurement: interval

             Min:   -0.995
             Max:    0.474
            Mean:   -0.614
       Std.Dev.:     0.397
        Skewness:    0.444
        Kurtosis:   -1.222
```

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===

mydata.freqbodyaccelerationjerkmeany

Storage mode: double
Measurement: interval

Min: -0.989
Max: 0.277
Mean: -0.588
Std.Dev.:   0.407
Skewness: 0.347
Kurtosis: -1.478

==
===

mydata.freqbodyaccelerationjerkmeanz

Storage mode: double
Measurement: interval

Min: -0.992
Max: 0.158
Mean: -0.714
Std.Dev.:   0.296
Skewness: 0.670
Kurtosis: -0.677

==
===

mydata.freqbodyaccelerationjerkstdx

Storage mode: double
Measurement: interval

Min: -0.995
Max: 0.477
Mean: -0.612
Std.Dev.:   0.399
Skewness: 0.413
Kurtosis: -1.306

==
===

mydata.freqbodyaccelerationjerkstdy


```
Storage mode: double
Measurement: interval

        Min:   -0.990
        Max:    0.350
       Mean:   -0.571
  Std.Dev.:    0.431
   Skewness:   0.393
   Kurtosis:  -1.386
```

===
===

    mydata.freqbodyaccelerationjerkstdz


```
Storage mode: double
Measurement: interval

        Min:   -0.993
        Max:   -0.006
       Mean:   -0.756
  Std.Dev.:    0.256
   Skewness:   0.709
   Kurtosis:  -0.606
```

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===

    mydata.freqbodyaccelerationjerkmeanfreqx


```
Storage mode: double
Measurement: interval

        Min:   -0.576
        Max:    0.331
       Mean:   -0.069
  Std.Dev.:    0.253
   Skewness:  -0.068
   Kurtosis:  -1.506
```

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===

    mydata.freqbodyaccelerationjerkmeanfreqy


```
Storage mode: double
Measurement: interval

        Min:   -0.602
        Max:    0.196
       Mean:   -0.228
  Std.Dev.:    0.199
   Skewness:   0.045
   Kurtosis:  -1.222
```

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    mydata.freqbodyaccelerationjerkmeanfreqz

    Storage mode: double
    Measurement: interval

            Min: -0.628
            Max: 0.230
           Mean: -0.138
      Std.Dev.:   0.207
      Skewness: -0.468
      Kurtosis: -0.869

==
===

    mydata.freqbodygyroscopemeanx

    Storage mode: double
    Measurement: interval

            Min: -0.993
            Max: 0.475
           Mean: -0.637
      Std.Dev.:   0.346
      Skewness: 0.417
      Kurtosis: -1.040

==
===

    mydata.freqbodygyroscopemeany

    Storage mode: double
    Measurement: interval

            Min: -0.994
            Max: 0.329
           Mean: -0.677
      Std.Dev.:   0.331
      Skewness: 0.738
      Kurtosis: -0.471

==
===

    mydata.freqbodygyroscopemeanz


```
Storage mode: double
Measurement: interval

        Min:   -0.986
        Max:    0.492
       Mean:   -0.604
  Std.Dev.:    0.383
  Skewness:    0.445
  Kurtosis:   -1.128
```

==
==

    mydata.freqbodygyroscopestdx


```
Storage mode: double
Measurement: interval

        Min:   -0.995
        Max:    0.197
       Mean:   -0.711
  Std.Dev.:    0.272
  Skewness:    0.401
  Kurtosis:   -1.052
```

==
==

    mydata.freqbodygyroscopestdy


```
Storage mode: double
Measurement: interval

        Min:   -0.994
        Max:    0.646
       Mean:   -0.645
  Std.Dev.:    0.362
  Skewness:    0.830
  Kurtosis:   -0.090
```

==
==

    mydata.freqbodygyroscopestdz


```
Storage mode: double
Measurement: interval

        Min:   -0.987
        Max:    0.522
       Mean:   -0.658
  Std.Dev.:    0.335
  Skewness:    0.631
  Kurtosis:   -0.449
```

```
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```

   mydata.freqbodygyroscopemeanfreqx

```
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```

   Storage mode: double
   Measurement: interval

              Min: -0.396
              Max: 0.249
             Mean: -0.105
        Std.Dev.:   0.148
        Skewness: 0.237
        Kurtosis: -0.610

```
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```

   mydata.freqbodygyroscopemeanfreqy

```
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```

   Storage mode: double
   Measurement: interval

              Min: -0.667
              Max: 0.273
             Mean: -0.167
        Std.Dev.:   0.178
        Skewness: -0.211
        Kurtosis: -0.129

```
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```

   mydata.freqbodygyroscopemeanfreqz

```
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```

   Storage mode: double
   Measurement: interval

              Min: -0.507
              Max: 0.377
             Mean: -0.057
        Std.Dev.:   0.165
        Skewness: -0.144
        Kurtosis: 0.155

```
================================================================================
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```

   mydata.freqbodyaccelerationmagnitudemean

```
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```

```
Storage mode: double
Measurement: interval

        Min:   -0.987
        Max:    0.587
       Mean:   -0.537
  Std.Dev.:     0.450
   Skewness:    0.464
   Kurtosis:   -1.197
```

==
==

    mydata.freqbodyaccelerationmagnitudestd


```
Storage mode: double
Measurement: interval

        Min:   -0.988
        Max:    0.179
       Mean:   -0.621
  Std.Dev.:     0.352
   Skewness:    0.493
   Kurtosis:   -1.134
```

==
==

    mydata.freqbodyaccelerationmagnitudemeanfreq


```
Storage mode: double
Measurement: interval

        Min:   -0.312
        Max:    0.436
       Mean:    0.076
  Std.Dev.:     0.140
   Skewness:   -0.016
   Kurtosis:   -0.222
```

==
==

    mydata.freqbodybodyaccelerationjerkmagnitudemean


```
Storage mode: double
Measurement: interval

        Min:   -0.994
        Max:    0.538
       Mean:   -0.576
  Std.Dev.:     0.430
   Skewness:    0.424
   Kurtosis:   -1.293
```

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    mydata.freqbodybodyaccelerationjerkmagnitudestd

    Storage mode: double
    Measurement: interval

            Min: -0.994
            Max: 0.316
           Mean: -0.599
      Std.Dev.:   0.408
      Skewness: 0.453
      Kurtosis: -1.301

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    mydata.freqbodybodyaccelerationjerkmagnitudemeanfreq

    Storage mode: double
    Measurement: interval

            Min: -0.125
            Max: 0.488
           Mean: 0.163
      Std.Dev.:   0.137
      Skewness: 0.010
      Kurtosis: -0.870

==
==

    mydata.freqbodybodygyroscopemagnitudemean

    Storage mode: double
    Measurement: interval

            Min: -0.987
            Max: 0.204
           Mean: -0.667
      Std.Dev.:   0.317
      Skewness: 0.582
      Kurtosis: -0.793

==
==

    mydata.freqbodybodygyroscopemagnitudestd


```
Storage mode: double
Measurement: interval

        Min:   -0.981
        Max:    0.237
       Mean:   -0.672
  Std.Dev.:    0.292
  Skewness:    0.493
  Kurtosis:   -0.955
```

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===

    mydata.freqbodybodygyroscopemagnitudemeanfreq


```
Storage mode: double
Measurement: interval

        Min:   -0.457
        Max:    0.410
       Mean:   -0.036
  Std.Dev.:    0.180
  Skewness:    0.292
  Kurtosis:   -0.349
```

==
===

    mydata.freqbodybodygyroscopejerkmagnitudemean


```
Storage mode: double
Measurement: interval

        Min:   -0.998
        Max:    0.147
       Mean:   -0.756
  Std.Dev.:    0.262
  Skewness:    0.957
  Kurtosis:    0.276
```

==
===

    mydata.freqbodybodygyroscopejerkmagnitudestd


```
Storage mode: double
Measurement: interval

        Min:   -0.998
        Max:    0.288
       Mean:   -0.772
  Std.Dev.:    0.250
  Skewness:    1.137
  Kurtosis:    1.122
```

==
===

    mydata.freqbodybodygyroscopejerkmagnitudemeanfreq

    Storage mode: double
    Measurement: interval

           Min: -0.183
          Max: 0.426
        Mean: 0.126
   Std.Dev.:   0.108
   Skewness: -0.017
   Kurtosis: -0.122

==
===

    mydata.angletbodyaccelerationmeangravity

    Storage mode: double
    Measurement: interval

           Min: -0.163
          Max: 0.129
        Mean: 0.007
   Std.Dev.:   0.039
   Skewness: -0.614
   Kurtosis: 2.822

==
===

    mydata.angletbodyaccelerationjerkmeangravitymean

    Storage mode: double
    Measurement: interval

           Min: -0.121
          Max: 0.203
        Mean: 0.001
   Std.Dev.:   0.043
   Skewness: 0.321
   Kurtosis: 2.832

==
===

    mydata.angletbodygyroscopemeangravitymean


```
Storage mode: double
Measurement: interval

        Min:   -0.389
        Max:    0.444
       Mean:    0.022
  Std.Dev.:     0.140
  Skewness:    -0.061
  Kurtosis:     1.474
```

==
===

    mydata.angletbodygyroscopejerkmeangravitymean


```
Storage mode: double
Measurement: interval

        Min:   -0.224
        Max:    0.182
       Mean:   -0.011
  Std.Dev.:     0.073
  Skewness:     0.001
  Kurtosis:     0.529
```

==
===

    mydata.anglexgravitymean


```
Storage mode: double
Measurement: interval

        Min:   -0.947
        Max:    0.738
       Mean:   -0.524
  Std.Dev.:     0.480
  Skewness:     1.654
  Kurtosis:     1.048
```

==
===

    mydata.angleygravitymean


```
Storage mode: double
Measurement: interval

        Min:   -0.875
        Max:    0.425
       Mean:    0.079
  Std.Dev.:     0.278
  Skewness:    -1.710
  Kurtosis:     2.132
```

```
================================================================================
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```

mydata.anglezgravitymean

```
--------------------------------------------------------------------------------
--------------------------------------------------
```

Storage mode: double
Measurement: interval

```
        Min:    -0.874
        Max:     0.390
       Mean:    -0.040
   Std.Dev.:     0.230
   Skewness:    -1.472
   Kurtosis:     2.248
```