

A boring (academic) title or a clever title?

A secondary title

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In this article we compare the *empirical characteristic function* (Tukey 1977; Becker et al. 1988) to a *moment-generating-functional form* to compute the proportion of hypotheses m that are rejected under the null hypothesis. Here is a second paragraph of the abstract (if necessary), and with the pipe notation it doesn't

break. Notice it still needs to be indented. Generally, we write this abstract last. Often it is called the

executive summary. It should succinctly summarize the entire document. You can include references such as this one to the Appendices section ?? if necessary.

Keywords: multiple comparisons to control; multivariate chi-square distribution; nonlinear growth curves; Richard's curve; simulated critical points

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```
library(devtools);          # required for source_url
path.humanVerseWSU = "https://raw.githubusercontent.com/MonteShaffer/humanVerseWSU/"
source_url( paste0(path.humanVerseWSU,"master/misc/functions-project-measure.R") );
source_url( paste0(path.humanVerseWSU,"master/humanVerseWSU/R/functions-dataframe.R") );
source_url( paste0(path.humanVerseWSU,"master/humanVerseWSU/R/functions-EDA.R") );

path.project = "C:/_git_/WSU_STATS419_FALL2020/project-measure/";
path.to.secret = "C:/Users/13608/Dropbox/WSU-419/Fall 2020/__student_access__/_SECRET/"

measure = utils::read.csv( paste0(path.to.secret, "measure-students.txt"), header=TRUE, quote="", sep="

# source functions-project-measure.R from my github repository
path.github = "https://raw.githubusercontent.com/minju-lee92/WSU_STATS419_FALL2020/"
source_url( paste0(path.github,"master/functions/functions-project-measure.R") )

## SHA-1 hash of file is 5aa82ee87a0a62bfc9b04ccc942d44c0cc3ed092

# covert inches to cm
measureAscm <-convert.inchestocm(measure)

Data collapsing  Some people have data for a person's "left" and "right" side of the body. The function
merge.left.right() takes measurement from the left or right, if one is NA it returns the other. If they both
are available, it returns the mean.

# build merged left/right value cols
getOne = c("hand.length", "hand.width", "hand.elbow", "elbow.armpit", "arm.reach", "foot.length", "floor

merged.df <-merge.left.right(measureAscm, getOne)
```

```
# remove NAs, duplicates, create categorical variables... etc
cleaned.df = prepareMeasureData(merged.df)
```

Data cleaning

Data creation There may be a few data features you may want to create. I have the “arm span” and information about the “armpits” which would enable you to compute the internal “chest width” (from armpit to armpit). There may be other data you can create in a similar fashion.

Data proportions It is very likely that for each measure row, you would want to create “scaled variables to that person’s height”, also known as a proportion.

Alternatively, you could scale everything to a person’s head height.

Alternatively, you could review lots of different proportions. I suggested at one point that the foot-size and the “upper arm” (elbow-pit to arm-pit) are the same size (some basic Pythagorean theorem could get you there or close).

There are lots of possibilities, all depends on your interests.

- Some say the unit of length of a “one foot” that we now decompose into 12 inches was a function of the actual length of the King’s foot in England, and would change when a new King was crowned.
- Another measure of length, the “cubit” is derived from the Latin word for “elbow”
- Galileo Galilei, the famous Italian polymath, literally sold his body parts when he died (quite the entrepreneur). He had extremely long fingers. In the museum in Firenze, they have on display a few of the fingers recovered. Yes, I have seen them <https://www.museogalileo.it/it/>. Most people miss this museum because they are too busy admiring David’s proportions at the nearby Academia Gallery [https://en.wikipedia.org/wiki/David_\(Michelangelo\)](https://en.wikipedia.org/wiki/David_(Michelangelo)).

```
# create scaled variables using height
colnum = c(3:7,20:28)
new.colname = c("height/height", "head.height/height", "head.c/height", "arm.span/height", "floor.navel.

v1.df =build.scale.variables(cleaned.df, colnum, new.colname, cleaned.df$height)

#create scaled variables using head.height
colnum2 = c(3:7,20:28)
new.colname2 = c("height/head.height", "head.height/head.height", "head.c/head.height", "arm.span/head.

v2.df =build.scale.variables(v1.df, colnum2, new.colname2, v1.df$head.height)
v2.df
```

##	data_collector	person_id
## 1	9c2633aaa2d945bb10608ad13c3a11a9	1cef05bce7879e0ffee01b0cb8d78c32
## 2	9c2633aaa2d945bb10608ad13c3a11a9	7ccb01feee114272ab008022a14ededb
## 3	9c2633aaa2d945bb10608ad13c3a11a9	045e02304948042a658b4faa4bd8e54e
## 4	9c2633aaa2d945bb10608ad13c3a11a9	51e383ff163861b0e2fc71e939a5b118
## 5	9c2633aaa2d945bb10608ad13c3a11a9	6d672001f80f375570c44439c540bebf
## 6	9c2633aaa2d945bb10608ad13c3a11a9	98569fbc2cb9141f60d0ae5cfa7501cb
## 7	9c2633aaa2d945bb10608ad13c3a11a9	8d98590f4401d70a1d0a04293499b87c
## 8	9c2633aaa2d945bb10608ad13c3a11a9	a9b12538812f18facbfcbd5f2c12663b
## 9	9c2633aaa2d945bb10608ad13c3a11a9	7a87fa2f3e4e4ca864a254fef98ecdc0
## 10	9c2633aaa2d945bb10608ad13c3a11a9	8e231231fb1ab2d42c266670295eee16
## 21	6734f5f4f223d589dc4ff361a310c155	13e647076a48ced264cd8452175c2e15

```
## 22 6734f5f4f223d589dc4ff361a310c155 1088af35708a5b36f1d4e2bb37acdcb7
## 23 6734f5f4f223d589dc4ff361a310c155 e28999163456cff48b783a89fad8c6d9
## 24 6734f5f4f223d589dc4ff361a310c155 09933344d53a61bf9ad3fbe844e173c8
## 25 6734f5f4f223d589dc4ff361a310c155 8643d013d64405966b262a0280c0b197
## 26 6734f5f4f223d589dc4ff361a310c155 c0e88abe6a0ab110f0f201685c0bd185
## 27 6734f5f4f223d589dc4ff361a310c155 5b31d7eefd327c5296826021dd9a4c56
## 28 6734f5f4f223d589dc4ff361a310c155 bc679a3aec3b015b11b5c33673d58a31
## 29 6734f5f4f223d589dc4ff361a310c155 5ae2cd142c4d754f9cf52879c9df4fc0
## 30 6734f5f4f223d589dc4ff361a310c155 112c745f06b882dc111506a76e90a206
## 31 fd36e2b3ec59dbd996587454cbb59725 789951a2bbfbf299b0822cc8452f236f
## 32 fd36e2b3ec59dbd996587454cbb59725 e4a78a4c43790b174d1132cc72ff8829
## 33 fd36e2b3ec59dbd996587454cbb59725 02fd0c9a5c0a52e64e487541c668dbb8
## 34 fd36e2b3ec59dbd996587454cbb59725 9f719255d46dd8b9b07935d891dc5295
## 35 fd36e2b3ec59dbd996587454cbb59725 06101d4bde60d0ea415206d4ba04572c
## 36 fd36e2b3ec59dbd996587454cbb59725 7a0dee5e063bbcbcd68e6e60eb0d8ac2
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## 41 fd36e2b3ec59dbd996587454cbb59725 7aa407c589c49ea3aa49224367f9aad8
## 75 c51267de031fb6d879a8abf25d260269 1c2408654ef5a2fe1fc962088312266c
## 76 c51267de031fb6d879a8abf25d260269 9b2cfcfa9664443aaa0a5cf1333c7244
## 77 c51267de031fb6d879a8abf25d260269 c45839f19cbf1437468598076cb11a1c
## 78 c51267de031fb6d879a8abf25d260269 5416d60fcbda9d702ccbcee046a3e7cb
## 79 c51267de031fb6d879a8abf25d260269 2420e28d6dd40f144e4484b856092628
## 80 c51267de031fb6d879a8abf25d260269 b4216eec77f3aaf926d1b6a1e1512c8e
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## 85 5a2f371a934f22dffcf1e994cb6eca40 3edc9028bcaab791b8790713cf82d280
## 86 5a2f371a934f22dffcf1e994cb6eca40 04b2eeaf9dcd75f5fcaeec08f76603f2
## 87 5a2f371a934f22dffcf1e994cb6eca40 c775bb281e5479508ec125fa644ff065
## 88 5a2f371a934f22dffcf1e994cb6eca40 5d0a00a4553a324b9f14f2eb6820ada4
## 89 5a2f371a934f22dffcf1e994cb6eca40 c7e8ec1734c9626546d613ca12f9dc57
## 90 5a2f371a934f22dffcf1e994cb6eca40 cff864eff9ec76edf5a6606be92b33b5
## 91 5a2f371a934f22dffcf1e994cb6eca40 19e7e29d12d3eec6776a993acdfca999
## 92 5a2f371a934f22dffcf1e994cb6eca40 35d830aeb7087089a94bd6f4c2119268
## 93 5a2f371a934f22dffcf1e994cb6eca40 df2f92f65e0119382722048c0fe1aaa9
## 94 5a2f371a934f22dffcf1e994cb6eca40 5f5158f2a21600d2670ce6c262276efd
## 95 5a2f371a934f22dffcf1e994cb6eca40 4fd772e96e520d598a2d08d5eea733cf
## 96 5a2f371a934f22dffcf1e994cb6eca40 a7ca986d375e45fe72aa5b043c0d207e
## 97 253a0d24ddff7cbe1b9f621870d9d198 ac56ebdc4dda8269a4a2b52a1d6c7850
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## 99 253a0d24ddff7cbe1b9f621870d9d198 eeead4ca1f5a37e4021d64295eb831e6
## 100 253a0d24ddff7cbe1b9f621870d9d198 dabc021b0e03bcadb60c3795dd8dc3b
## 101 253a0d24ddff7cbe1b9f621870d9d198 cf4e88b3cd3bcfeb43df3f865747af57
## 102 253a0d24ddff7cbe1b9f621870d9d198 0b36178aaf339b27b19d5f38e97d97ae
## 103 253a0d24ddff7cbe1b9f621870d9d198 be3732e06f96f48a9f6b4aefbc026d42
## 104 253a0d24ddff7cbe1b9f621870d9d198 10bcf9fc27bfb07ff4309230b6e1fd16
## 105 253a0d24ddff7cbe1b9f621870d9d198 bfb025246aab6d98222153d7cf51fdeb
## 106 253a0d24ddff7cbe1b9f621870d9d198 1018deacd9ac4ed7b69c8d393c553459
## 107 feaa341d33cedb0f4f7ec731c84e5ba9 be2c146782bc42ee8a28929e2caae9ba
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```

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278 07455b8d275697db40dab95a03f3c208 be6fbe0a469c8ba8b4f2c44e0fe6304d
279 21130e0e97a7ce7afdd817c223e9ac64 ca9ff114ef0294d44570b2f047017c45
280 07455b8d275697db40dab95a03f3c208 d461230a8b9f2893ad1ec16580afbeb2
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```
## 283 dc4c5f00782773504555c80d9c6dd20f 9a151897ab3979d9320496fa60f3dd09
## 284 cc97268e16b656d42336d456432e1925 c7d12fe45546c973922880529fa8edae
## 285 391737a84a55fb3fc6b1f3e5789cd077 f7c4fadae08200bc74b0fe5368741290
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## 333 7e6e6a69493f1d54a74ecdd4058ebadf a8e17797adc14c4a0d5e471e1c51e978
## 334 7e6e6a69493f1d54a74ecdd4058ebadf fb0584aba84a3668a9bbf0470fba3076
## 335 7e6e6a69493f1d54a74ecdd4058ebadf d1c3771b9b322f68e211feb06e6be920
## 337 f697d5c9213997cc167707e4f07a8da8 a97ef9def423fd197a090c1cb628a69f
## 338 f697d5c9213997cc167707e4f07a8da8 3036ed5a46ad4a5a95f1539c3380b842
## 339 f697d5c9213997cc167707e4f07a8da8 425f17c638540b224c07192d531bb3cb
## 340 f697d5c9213997cc167707e4f07a8da8 7c1c7202e4c08021c2f734c5c8e2f087
## 341 f697d5c9213997cc167707e4f07a8da8 92bfa27dc07eba67b807bc12b1718d6f
## 342 f697d5c9213997cc167707e4f07a8da8 6a2b00bf02f70b2f261665b44e22013a
## 343 f697d5c9213997cc167707e4f07a8da8 2fb0249a6780ecbd5fee198521790376
## 344 f697d5c9213997cc167707e4f07a8da8 14298d51dc6aa40726467279e600b416
## 345 f697d5c9213997cc167707e4f07a8da8 d7349aa570a6e2f2211e14679cd3808b
## 346 f697d5c9213997cc167707e4f07a8da8 c17bb12cc856350de9e81e40946d5310
## 347 54da3e417c8efaddfe60f2634e0655ff fd4c92272d5a952adf7aad11c20458e1
```


348 3278ce887bc37a4d45550d5e8a6d6828 ef1cb6e72d149b184cc241037203f60b
350 ae042cc7daa59392f0ae30e0d7efea55 d0fa06cd93335c8cae357ffe5cd1c4e9
351 7e7c74a4b3543bfd71fdce2f52df44e2 5d44a032652974c3e53644945a95b126
352 18ec34f5d5544bbb34ac03bbd62d61cf 3691308f2a4c2f6983f2880d32e29c84
353 4c2954ca87d25ecb003e253dff6485b7 1f2dfa567dcf95833eddf7aec167fec7
354 7e01a8e692e1c5459b716e6af849922e 1e7342845e24eb3b5b3554490da1c128
355 d4c40ebf6bd149deed005ca123fa3110 051a9911de7b5bbcb610b76f4eda834a0
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357 ed892caec7a86a00ec5fbefdf5f44faf 6ce9c1c0b4443b31753cd40c34000efd
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367 86687ae28f9bf74f509bc9cff3e967fe 4e87b49a355ca3040c49e3f513e07a7b
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369 86687ae28f9bf74f509bc9cff3e967fe 8545c7da3bff6d5e778c19a8e759e351
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378 ecfaf244516c0630fcdcf6fbabceabbb 10b30419e35ec26acc14169166056031
379 ecfaf244516c0630fcdcf6fbabceabbb a0efd91ed85b6c75933d3381b8cb634f
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381 5ec754244f7607ffe7adb8de39646687 8ecc0180e629c0d5450b50a4c9780587
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383 0e672b35628c692c17853f0c53986f17 5c2f639550d9c99da8a2eefb68a5f1b6
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385 92c08bfae43328e218bb8bb66d0e9a72 5b96477ccce605e4a4ded6b6bf0f6931
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402 0185c7c2eed9d48197953305a817c8b1 559a7f208866f0063b1ea8d5ca2ee816

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## 403 0185c7c2eed9d48197953305a817c8b1 a1361cb85be840d6a2d762c68e4910e2
## 404 0185c7c2eed9d48197953305a817c8b1 e6d9c335f6aa36754461e4dd4db30274
## 405 0185c7c2eed9d48197953305a817c8b1 d6ba0682d75eb986237fb6b594f8a31f
## 406 0185c7c2eed9d48197953305a817c8b1 5844a15e76563fedd11840fd6f40ea7b
## 407 b16ae1eae8d7351e997e8faf1f734d2c 6d7edc4358342d5ef92c052cb7c82057
## 408 b16ae1eae8d7351e997e8faf1f734d2c bba47c925f1a291bc29bd58d19877c27
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## 410 b16ae1eae8d7351e997e8faf1f734d2c 3591727d81b72b421c3725c3b109f713
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## 414 b16ae1eae8d7351e997e8faf1f734d2c 90436fcf8fdad8e75690525f0e8a9018
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## 416 b16ae1eae8d7351e997e8faf1f734d2c ea6212772478ee71edd91f89af72c134
## 417 d22301490fef91bdc398d00a35c7b790 6c1a5b12d4bd24ab2966ee3f04252c40
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## 419 fd540e43a7112f833051d2ed1fdbbbf0 7ec6624767095490c469559de77ae043
## 420 fd540e43a7112f833051d2ed1fdbbbf0 c943d1e478cf04dd55706758ca7307a1
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## 424 d441d1e30322901bf7caeee33f0ee9af 5d2dadcc6682bf48ce49de8a5015a76bc
## 425 d441d1e30322901bf7caeee33f0ee9af 63f4ed4ecc6dd8196b024634aaba8207
## 426 d441d1e30322901bf7caeee33f0ee9af 8962eb6c602258f23fd34ece0f1a2504
##      height head.height head.circumference arm.span floor.navel units writing
## 1  152.1000    23.0000                NA 148.2000                NA      cm  right
## 2  174.0000    22.1000                NA 167.0000                NA      cm  right
## 3  168.0000    18.0000                NA 157.0000                NA      cm  left
## 4  164.0000    23.0000                NA 155.0000                NA      cm  right
## 5  181.0000    26.0000                NA 183.0000                NA      cm  left
## 6  156.2000    22.5000                NA 167.5000                NA      cm  right
## 7  154.3000    22.5000                NA 150.1000                NA      cm  right
## 8  154.3000    23.0000                NA 151.0000                NA      cm  right
## 9  172.7000    20.0000                NA 154.0000                NA      cm  right
## 10 164.0000    23.0000                NA 154.3000                NA      cm  right
## 21 145.0000    18.8000                55.3000 141.7000            86.4000      cm  right
## 22 181.0000    24.3000                58.5000 176.0000           112.5000      cm  right
## 23 152.6000    18.3000                54.7000 159.6000            91.3000      cm  right
## 24 169.5000    21.0000                56.0000 165.0000           105.4000      cm  right
## 25 164.9000    19.1000                57.2000 151.9000            96.0000      cm  left
## 26 153.6000    22.2000                64.0000 161.1000            95.8000      cm  right
## 27 177.8000    20.5000                59.3000 182.8000           104.0000      cm  right
## 28 168.3000    22.2000                58.6000 165.7000           102.0000      cm  left
## 29 170.1000    22.5000                57.7000 168.6000           101.0000      cm  right
## 30 151.6000    19.9000                55.1000 156.0000            94.0000      cm  right
## 31 177.1650    23.4950                56.5150 184.1500           104.7750 inches  right
## 32 113.6650    16.5100                49.5300 109.5375            65.7225 inches  left
## 33 121.2850    17.7800                48.8950 117.4750            70.1675 inches  right
## 34 181.6100    23.4950                59.6900 182.2450           108.2675 inches  right
## 35 161.2900    22.8600                54.6100 160.6550            97.7900 inches  left
## 36 114.3000    15.2400                50.8000 115.8875            65.0875 inches  right
## 37 155.2575    19.0500                55.5625 154.6225            91.4400 inches  right
## 38 166.6875    21.9075                56.1975 167.3225            93.3450 inches  right
## 39 157.4800    22.2250                55.8800 157.4800            93.9800 inches  right

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## 40	179.0700	23.1775	58.1025	183.1975	103.5050	inches	right
## 41	158.1150	22.2250	56.8325	160.6550	95.8850	inches	right
## 75	178.0000	21.0000	59.0000	176.0000	98.5000	cm	right
## 76	181.6100	20.3200	58.0000	218.4400	109.0000	cm	right
## 77	175.4000	19.6000	56.0000	211.0000	105.3000	cm	right
## 78	161.0000	18.0000	51.0000	193.0000	96.5000	cm	right
## 79	165.0000	18.5000	53.0000	198.5000	99.0000	cm	right
## 80	186.0000	21.0000	59.0000	224.0000	112.0000	cm	right
## 81	184.0000	20.5000	59.0000	221.0000	110.0000	cm	right
## 82	159.0000	18.0000	52.0000	195.0000	97.0000	cm	left
## 83	185.5000	21.0000	59.0000	223.0000	111.0000	cm	right
## 84	185.0000	21.0000	61.0000	224.0000	111.0000	cm	right
## 85	183.0000	23.0000	58.0000	183.0000	109.0000	cm	right
## 86	166.5000	20.5000	53.5000	164.0000	99.0000	cm	right
## 87	157.5000	23.0000	55.0000	160.0000	90.0000	cm	right
## 88	171.5000	22.0000	53.0000	65.0000	107.0000	cm	right
## 89	178.0000	23.0000	59.0000	171.0000	101.0000	cm	right
## 90	168.0000	20.0000	56.0000	166.0000	99.0000	cm	right
## 91	170.0000	27.0000	56.0000	174.0000	99.0000	cm	right
## 92	178.0000	24.0000	58.0000	180.5000	104.0000	cm	left
## 93	183.0000	25.0000	23.0000	162.0000	108.0000	cm	right
## 94	175.0000	27.0000	56.0000	75.0000	103.0000	cm	right
## 95	161.0000	21.0000	52.0000	61.5000	97.0000	cm	right
## 96	185.0000	24.0000	57.0000	192.0000	109.0000	cm	right
## 97	175.2600	24.1300	58.9280	179.7050	97.7900	inches	right
## 98	160.0200	NA	57.1500	157.4800	NA	inches	right
## 99	107.9500	NA	52.0700	104.1400	NA	inches	right
## 100	85.0900	NA	49.5300	80.0100	NA	inches	both
## 101	160.0200	NA	55.8800	160.0200	NA	inches	right
## 102	175.2600	NA	61.4680	167.6400	NA	inches	left
## 103	165.1000	NA	58.4200	166.3700	NA	inches	right
## 104	165.1000	NA	57.1500	161.9250	NA	inches	left
## 105	157.4800	NA	54.6100	162.5600	NA	inches	right
## 106	182.8800	NA	59.0550	185.4200	NA	inches	right
## 107	175.2600	23.4950	58.4200	180.9750	99.0600	cm	right
## 108	165.1000	21.5900	53.3400	162.5600	92.0000	cm	right
## 109	177.8000	24.7650	58.4200	187.9600	98.0000	cm	right
## 110	NA	22.8600	58.4200	NA	NA	cm	right
## 111	NA	27.9400	55.8800	NA	NA	cm	right
## 112	NA	23.4950	58.4200	NA	NA	cm	right
## 113	NA	22.2250	60.3250	NA	NA	cm	right
## 114	NA	27.9400	60.9600	NA	NA	cm	right
## 115	NA	23.4950	62.2300	NA	NA	cm	right
## 116	NA	26.4160	52.0700	NA	NA	cm	right
## 117	187.9600	23.4950	NA	196.8500	NA	cm	Right
## 118	161.2900	20.3200	NA	158.7500	NA	cm	Left
## 119	147.3200	21.5900	NA	150.4950	NA	cm	Left
## 120	142.8750	21.5900	NA	147.3200	NA	cm	Right
## 121	132.7150	21.5900	NA	134.6200	NA	cm	Right
## 122	157.4800	21.5900	NA	133.3500	NA	cm	Right
## 123	NA	21.0000	NA	171.0000	NA	cm	Left
## 124	NA	23.0000	NA	172.0000	NA	cm	Left
## 125	147.3200	22.8600	NA	NA	NA	cm	Left
## 126	180.5000	21.5000	60.0000	179.0000	107.5000	cm	Right

## 127	180.3000	25.4000	55.9000	167.6000	141.0000	cm	right
## 128	163.8000	22.9000	57.2000	147.5000	123.2000	cm	right
## 129	180.3000	24.1000	59.7000	163.5000	139.7000	cm	left
## 130	159.0000	22.9000	54.6000	142.3000	123.2000	cm	right
## 131	181.0000	25.4000	60.3000	165.0000	151.1000	cm	right
## 132	190.0000	24.0000	58.0000	173.0000	143.0000	cm	right
## 133	191.1000	26.7000	56.5000	175.5000	150.5000	cm	right
## 134	180.0000	29.5000	59.0000	171.0000	140.0000	cm	right
## 135	169.0000	24.0000	58.0000	158.0000	132.5000	cm	right
## 136	178.0000	29.0000	57.0000	168.0000	126.5000	cm	right
## 227	143.5000	22.0000	56.0000	165.0000	103.5000	cm	right
## 228	177.0000	24.0000	57.0000	175.0000	107.0000	cm	right
## 229	175.0000	21.5000	59.5000	175.0000	104.0000	cm	right
## 230	175.0000	21.5000	55.5000	174.0000	103.5000	cm	right
## 231	177.0000	22.0000	58.0000	181.0000	110.5000	cm	right
## 232	166.0000	20.0000	56.5000	160.0000	102.0000	cm	right
## 233	174.0000	22.0000	57.5000	175.0000	102.0000	cm	right
## 234	183.0000	23.0000	57.5000	172.0000	109.0000	cm	right
## 235	93.0000	20.0000	51.0000	90.5000	49.0000	cm	both
## 236	178.0000	23.0000	59.5000	177.0000	104.5000	cm	left
## 237	151.1300	20.5000	53.5000	154.0000	94.5000	cm	right
## 238	165.1000	23.0000	55.0000	176.5300	104.0000	cm	right
## 239	157.4800	20.0000	53.5000	165.1000	92.5000	cm	right
## 240	174.6250	23.5000	61.0000	180.3400	105.0000	cm	right
## 241	167.0000	22.0000	55.0000	171.0000	105.0000	cm	right
## 242	170.0000	24.0000	57.0000	175.0000	106.0000	cm	right
## 243	154.0000	21.0000	56.2000	155.0000	94.0000	cm	right
## 244	167.6400	24.0000	58.5000	177.8000	100.0000	cm	right
## 245	185.0000	25.0000	59.0000	188.0000	108.0000	cm	right
## 246	172.0000	22.0000	58.0000	170.0000	89.0000	cm	right
## 277	180.5000	26.5000	60.5000	181.5000	103.5000	cm	right
## 278	160.0000	20.0000	55.5000	157.0000	NA	cm	right
## 279	175.0000	24.0000	58.0000	180.0000	NA	cm	right
## 280	180.0000	23.0000	58.5000	185.0000	NA	cm	right
## 281	158.0000	24.5000	55.5000	161.5000	98.0000	cm	right
## 282	182.5000	25.0000	56.0000	186.0000	115.5000	cm	right
## 283	168.0000	26.0000	57.0000	167.0000	98.5000	cm	left
## 284	181.0000	25.5000	61.0000	182.5000	103.0000	cm	right
## 285	155.0000	22.0000	57.0000	154.0000	NA	cm	right
## 286	176.0000	24.0000	58.5000	177.0000	NA	cm	right
## 297	156.2100	20.3200	53.9750	153.0350	88.9000	in	right
## 298	177.8000	23.4950	57.1500	187.9600	104.1400	in	right
## 299	152.0825	20.9550	52.0700	149.8600	86.9950	in	right
## 300	176.9364	20.9550	53.9750	177.4825	101.8540	in	right
## 301	161.9250	19.0500	53.3400	160.6550	95.2500	in	right
## 302	182.8800	22.8600	58.4200	186.6900	113.0300	in	right
## 303	160.0200	21.1582	52.0700	158.1150	87.6300	in	right
## 304	168.2750	20.5740	50.8000	172.0850	106.0450	in	right
## 305	187.9600	20.3200	58.4200	191.1350	111.1250	in	right
## 306	165.1000	20.9550	58.4200	166.3700	100.9650	in	right
## 307	173.0000	22.0000	54.5000	173.0000	100.0000	cm	right
## 308	167.0000	18.0000	53.0000	167.0000	102.0000	cm	right
## 309	157.0000	19.0000	53.5000	159.0000	94.0000	cm	right
## 310	158.0000	24.0000	53.0000	146.0000	93.0000	cm	right

## 311	162.0000	22.5000	56.0000	163.0000	98.0000	cm	right
## 312	168.0000	28.0000	53.0000	177.0000	97.0000	cm	right
## 313	151.0000	20.0000	56.0000	165.0000	91.0000	cm	right
## 314	149.0000	29.0000	54.0000	148.0000	88.5000	cm	right
## 315	159.0000	23.0000	54.0000	167.0000	90.0000	cm	right
## 316	162.0000	22.5000	58.0000	160.5000	91.5000	cm	right
## 317	173.9900	25.0825	60.3250	181.6100	104.1400	inches	right
## 318	170.1800	18.4150	55.8800	172.7200	101.6000	inches	left
## 319	177.8000	25.4000	57.1500	182.8800	107.9500	inches	right
## 320	152.4000	24.1300	55.8800	152.4000	86.9950	inches	right
## 321	177.8000	20.3200	56.5150	182.8800	107.3150	inches	right
## 322	161.9250	19.6850	55.2450	158.1150	85.0900	inches	right
## 323	162.5600	21.5900	57.1500	161.2900	95.2500	inches	right
## 324	180.3400	20.3200	58.4200	182.8800	109.2200	inches	right
## 325	160.6550	19.0500	55.8800	152.4000	97.7900	inches	right
## 326	184.1500	20.9550	57.7850	186.6900	107.9500	inches	right
## 327	158.0000	22.0000	53.5000	159.5000	91.5000	cm	right
## 328	172.0000	24.0000	56.0000	168.0000	98.5000	cm	right
## 329	190.5000	22.2500	57.2500	193.0000	113.0000	cm	right
## 330	180.2500	21.5000	55.5000	185.5000	111.0000	cm	right
## 331	158.0000	20.5000	57.0000	166.0000	90.0000	cm	right
## 332	178.0000	22.0000	54.0000	174.0000	107.5000	cm	right
## 333	173.0000	20.0000	21.5000	179.0000	104.0000	cm	right
## 334	162.5000	20.3000	55.8000	165.0000	96.5000	cm	left
## 335	168.0000	20.0000	55.0000	165.0000	97.0000	cm	left
## 337	169.0000	22.0000	58.0000	173.0000	101.0000	cm	right
## 338	158.0000	21.5000	57.0000	162.0000	92.0000	cm	right
## 339	137.0000	23.0000	54.0000	139.0000	85.0000	cm	right
## 340	162.0000	24.0000	56.0000	164.0000	93.0000	cm	left
## 341	160.0000	23.0000	54.0000	159.0000	95.0000	cm	right
## 342	171.0000	23.0000	57.0000	171.5000	101.0000	cm	right
## 343	140.0000	20.0000	55.0000	143.0000	83.0000	cm	right
## 344	154.0000	23.5000	57.0000	160.0000	96.0000	cm	left
## 345	148.0000	24.0000	57.0000	148.0000	93.0000	cm	right
## 346	148.0000	23.0000	54.0000	147.0000	92.0000	cm	right
## 347	182.8800	23.4950	57.1500	193.0400	107.9500	"in"	"right"
## 348	170.1800	38.1000	60.3250	158.7500	93.9800	"in"	"right"
## 350	174.4980	20.3200	55.3720	175.2600	105.4100	"in"	"right"
## 351	176.5300	19.0500	55.3720	184.6580	109.2200	"in"	"right"
## 352	162.5600	33.0200	58.4200	166.3700	99.0600	"in"	"right"
## 353	177.1650	20.9550	55.2450	175.8950	106.6800	"in"	"right"
## 354	170.1800	22.8600	58.4200	171.4500	99.3775	"in"	"right"
## 355	187.4520	22.2250	60.9600	191.5160	115.0620	"in"	"right"
## 356	172.7200	21.5900	56.5150	173.0375	104.1400	"in"	"right"
## 357	175.6000	21.0000	53.8000	176.2000	109.0000	cm	right
## 358	175.5000	20.0000	55.0000	178.0000	107.0000	cm	right
## 359	176.0000	20.5000	56.0000	178.0000	109.0000	cm	right
## 360	158.0000	17.5000	56.0000	152.7000	94.0000	cm	right
## 361	169.6000	20.6000	58.0000	163.0000	100.0000	cm	right
## 362	165.9000	21.0000	56.0000	166.5000	95.0000	cm	right
## 363	168.0000	23.0000	57.0000	172.0000	95.0000	cm	right
## 364	168.5000	21.0000	55.5000	170.0000	103.5000	cm	right
## 365	186.0000	21.5000	59.5000	188.8000	114.5000	cm	right
## 366	170.0000	18.5000	56.0000	176.0000	104.0000	cm	right

## 367	168.9000	21.5000	55.5000	174.0000	100.5000	cm	right
## 368	181.0000	22.8000	56.0000	190.5000	108.2000	cm	both
## 369	160.0000	22.0000	61.0000	157.5000	94.0000	cm	right
## 370	173.0000	25.0000	58.4000	182.0000	104.0000	cm	right
## 371	163.0000	22.0000	55.0000	170.0000	97.0000	cm	right
## 372	185.4000	24.3000	58.0000	181.6000	109.2000	cm	right
## 373	163.0000	21.0000	54.0000	147.3000	101.6000	cm	right
## 374	167.0000	23.0000	55.5000	171.0000	100.0000	cm	right
## 375	167.7000	31.0000	57.6000	168.9000	98.1000	cm	right
## 376	167.7000	30.0000	54.6000	174.0000	106.7000	cm	right
## 377	160.0200	19.0500	55.8800	167.6400	98.4250	Inch	right
## 378	148.5900	19.0500	58.4200	150.6982	90.1700	Inch	right
## 379	165.1000	18.4150	53.9750	165.1000	101.6000	Inch	left
## 380	175.2600	17.7800	56.6420	170.1800	104.1400	Inch	right
## 381	172.7200	18.4150	44.4500	173.3550	92.7100	Inch	left
## 382	172.7200	21.5900	51.4350	177.8000	89.5350	Inch	right
## 383	177.8000	21.5900	48.2600	185.4200	86.9950	Inch	left
## 384	152.4000	19.6850	50.8000	154.9400	91.4400	Inch	right
## 385	153.6700	22.8600	58.4200	157.4800	96.5200	Inch	left
## 386	167.6400	19.6850	53.3400	177.8000	99.0600	Inch	right
## 387	167.5000	25.0000	58.0000	158.0000	102.0000	cm	right
## 388	172.5000	22.5000	60.7000	174.5000	102.0000	cm	right
## 389	182.5000	23.0000	62.5000	183.5000	106.0000	cm	left
## 390	189.0000	22.0000	58.0000	185.8000	114.0000	cm	right
## 391	182.0000	23.5000	59.0000	182.5000	114.0000	cm	right
## 392	180.5000	22.0000	63.0000	177.5000	111.0000	cm	right
## 393	172.0850	22.8600	59.6900	168.9100	97.7900	in	right
## 394	157.4800	20.3200	54.6100	152.4000	92.7100	in	right
## 395	154.9400	21.5900	57.1500	152.4000	85.0900	in	right
## 396	177.5000	24.0000	60.5000	181.5000	109.0000	cm	left
## 397	185.0000	23.0000	59.0000	196.0000	NA	cm	right
## 398	188.0000	22.5000	59.0000	187.0000	NA	cm	right
## 399	184.0000	24.0000	58.5000	183.0000	NA	cm	right
## 400	173.0000	22.0000	57.0000	173.0000	NA	cm	right
## 401	178.0000	24.0000	60.0000	183.0000	NA	cm	right
## 402	160.0000	23.5000	55.0000	165.0000	NA	cm	right
## 403	184.5000	24.0000	56.0000	190.5000	NA	cm	right
## 404	165.0000	23.0000	56.0000	167.5000	NA	cm	right
## 405	180.5000	21.5000	58.5000	185.5000	NA	cm	left
## 406	158.0000	23.0000	56.0000	163.0000	NA	cm	right
## 407	163.8000	20.8000	27.2000	171.4000	98.5000	cm	left
## 408	167.6000	21.0000	57.7000	165.8000	101.6000	cm	right
## 409	166.9000	20.8000	57.1000	157.2260	100.3000	cm	right
## 410	160.2000	21.5900	57.1000	161.5000	92.7000	cm	left
## 411	189.4000	21.3000	64.1000	175.1000	106.5000	cm	right
## 412	165.7000	21.7000	55.4000	163.6000	99.8000	cm	right
## 413	166.6000	20.1000	59.2000	169.7000	102.4000	cm	right
## 414	176.8000	20.1000	56.4000	175.3000	105.3000	cm	right
## 415	180.6000	20.5000	59.4000	169.6000	105.4000	cm	right
## 416	172.2000	19.1000	57.4000	173.4000	105.6000	cm	right
## 417	188.0000	24.5000	58.5000	156.5000	113.7500	cm	left
## 418	170.1800	25.4000	57.7850	171.5000	100.5000	cm	right
## 419	154.9400	20.9550	55.2450	154.9400	87.6300	cm	right
## 420	164.4650	20.9550	56.1000	161.2900	101.5000	cm	left

## 421	177.8000	22.8600	58.5000	185.4200	110.7500	cm	right
## 422	158.7500	18.4150	50.5000	154.9400	96.0000	cm	right
## 423	133.3500	19.0500	48.7500	133.3500	82.0000	cm	right
## 424	176.5300	21.5900	58.2500	180.3400	107.5000	cm	right
## 425	171.4500	20.3200	55.5000	170.1800	114.0000	cm	right
## 426	162.5600	20.3200	53.0000	165.1000	98.5000	cm	right
##	eye	eye.color	swinging	age	gender	quality	minutes
## 1	both	blue	right	21	F	10.0	1.500000e+01
## 2	both	brown	right	22	M	7.0	2.200000e+01
## 3	both	brown	left	23	M	9.0	1.500000e+01
## 4	both	blue	right	23	F	8.0	1.500000e+01
## 5	left	blue	left	23	F	9.0	1.100000e+01
## 6	both	hazel	right	63	M	9.0	1.700000e+01
## 7	both	blue	right	59	F	10.0	1.300000e+01
## 8	both	brown	right	23	M	8.0	1.900000e+01
## 9	right	brown	right	20	F	9.0	1.400000e+01
## 10	both	blue	right	26	F	7.0	1.500000e+01
## 21	right	blue	right	87	female	7.0	3.500000e+01
## 22	right	blue	left	30	male	8.0	3.600000e+01
## 23	right	blue	left	60	female	10.0	4.000000e+01
## 24	right	brown	right	20	female	10.0	3.000000e+01
## 25	left	green	left	47	female	8.0	3.000000e+01
## 26	right	brown	left	22	female	10.0	3.000000e+01
## 27	left	blue	left	26	male	8.0	1.400000e+01
## 28	right	blue	left	27	female	8.0	1.000000e+01
## 29	left	blue	left	26	male	10.0	2.200000e+01
## 30	right	blue	left	61	female	10.0	1.600000e+01
## 31	right	blue/green	right	38	male	9.0	3.200000e+01
## 32	right	blue	left	5	female	9.0	1.500000e+01
## 33	left	brown	right	7	female	8.0	1.700000e+01
## 34	left	hazel	right	36	male	9.0	2.000000e+01
## 35	right	green	left	36	female	9.0	1.500000e+01
## 36	right	hazel	left	6	female	10.0	1.200000e+01
## 37	left	brown	right	11	female	10.0	1.200000e+01
## 38	left	brown	right	35	female	10.0	1.400000e+01
## 39	right	blue	right	52	female	7.0	2.200000e+01
## 40	right	green	right	59	male	9.0	1.500000e+01
## 41	left	blue	right	57	female	9.0	1.500000e+01
## 75	right	blue	left	47	male	10.0	2.300000e+01
## 76	right	brown	right	22	male	10.0	1.500000e+01
## 77	right	brown	right	23	male	8.0	2.000000e+01
## 78	right	green	right	20	female	7.0	1.500000e+01
## 79	right	brown	right	52	female	7.0	2.000000e+01
## 80	right	brown	right	61	male	8.0	1.200000e+01
## 81	right	brown	right	25	male	5.0	1.000000e+01
## 82	both	blue	left	23	female	5.0	1.500000e+01
## 83	right	brown	left	26	male	6.0	1.000000e+01
## 84	right	brown	right	22	male	7.0	1.000000e+01
## 85	left	hazel	right	21	male	10.0	2.450000e+01
## 86	right	blue	right	20	female	10.0	1.000000e+01
## 87	brown	left	right	23	male	10.0	9.000000e+00
## 88	right	brown	right	21	male	5.0	3.000000e+01
## 89	right	blue	right	54	male	9.0	9.000000e+00
## 90	right	hazel	right	61	female	9.0	1.100000e+01

## 91	left	green	right	20	female	7.0	2.000000e+01
## 92	left	green	right	22	male	10.0	1.550000e+01
## 93	right	green	right	23	male	8.0	2.000000e+01
## 94	left	blue	right	25	male	8.0	2.000000e+01
## 95	right	blue	right	57	female	9.0	4.500000e+01
## 96	left	blue	right	57	male	9.0	4.500000e+01
## 97	left	blue	right	35	M	10.0	1.500000e+01
## 98	right	blue	right	32	F	10.0	2.000000e+00
## 99	right	blue	right	4	M	9.0	3.000000e+00
## 100	<NA>	blue	both	1	F	6.0	1.000000e+01
## 101	left	hazel	right	63	F	10.0	3.000000e+00
## 102	right	blue	left	68	M	10.0	3.000000e+00
## 103	left	blue	right	34	F	10.0	2.000000e+00
## 104	left	brown	right	46	M	10.0	2.000000e+00
## 105	right	blue	right	84	F	10.0	4.000000e+00
## 106	right	blue	right	88	M	10.0	4.000000e+00
## 107	left	blue	right	21	male	9.0	1.900000e+01
## 108	right	green	right	21	female	8.0	1.200000e+01
## 109	right	brown	right	21	male	8.0	1.500000e+01
## 110	right	blue	right	21	male	9.0	5.000000e+00
## 111	right	brown	right	45	female	7.0	6.000000e+00
## 112	left	brown	right	38	female	9.0	5.000000e+00
## 113	right	brown	right	41	female	10.0	4.000000e+00
## 114	right	brown	right	45	male	8.0	8.000000e+00
## 115	right	green	right	21	male	9.0	3.000000e+00
## 116	left	brown	right	21	female	8.0	5.000000e+00
## 117	Left	Brown	Left	46	M	7.0	2.000000e+01
## 118	Right	Brown	Right	44	F	7.0	2.300000e+01
## 119	Right	Blue	Right	17	F	6.0	1.900000e+01
## 120	Left	Brown	Left	14	M	6.0	2.000000e+01
## 121	Left	Brown	Left	12	M	6.0	2.500000e+01
## 122	Left	Brown	Left	11	M	6.0	2.200000e+01
## 123	Right	Brown	Right	27	M	7.0	4.000000e+01
## 124	Left	Brown	Right	41	M	7.0	4.500000e+01
## 125	Right	Brown	Left	27	F	7.0	2.200000e+01
## 126	Left	Brown	Left	26	M	9.0	1.500000e+01
## 127	left	blue	right	21	male	9.0	1.000000e+01
## 128	left	blue	right	20	male	9.0	1.000000e+01
## 129	right	blue	right	18	male	8.0	1.000000e+01
## 130	right	blue	right	43	female	8.0	1.000000e+01
## 131	left	blue	right	47	male	8.0	1.000000e+01
## 132	right	blue	right	27	male	6.0	1.000000e+01
## 133	right	hazel	right	24	male	7.0	1.000000e+01
## 134	right	brown	right	23	male	9.0	1.100000e+01
## 135	right	brown	right	24	male	8.0	1.400000e+01
## 136	right	green	right	24	male	8.0	1.600000e+01
## 227	left	hazel	right	24	female	10.0	1.200000e+01
## 228	left	brown	right	27	male	10.0	1.500000e+01
## 229	right	brown	right	17	female	10.0	1.300000e+01
## 230	right	brown	right	17	female	10.0	1.100000e+01
## 231	left	blue	right	17	male	10.0	1.200000e+01
## 232	right	hazel	right	51	female	10.0	1.400000e+01
## 233	right	brown	right	28	female	10.0	1.200000e+01
## 234	right	blue	right	30	male	10.0	1.300000e+01

## 235	<NA>	brown	both	3	female	8.0	1.500000e+01
## 236	left	blue	left	19	male	10.0	1.000000e+01
## 237	right	brown	right	11	female	10.0	1.000000e+01
## 238	right	brown	right	17	female	10.0	1.000000e+01
## 239	right	brown	right	41	female	10.0	1.000000e+01
## 240	right	hazel	right	45	male	10.0	1.000000e+01
## 241	right	brown	right	30	female	9.0	1.000000e+01
## 242	right	brown	right	33	male	9.0	1.000000e+01
## 243	right	brown	right	21	female	9.0	1.000000e+01
## 244	right	brown	right	21	female	9.0	1.000000e+01
## 245	left	hazel	right	27	male	9.0	1.000000e+01
## 246	right	black	right	24	male	9.0	1.000000e+01
## 277	left	hazel	right	29	male	10.0	2.200000e+01
## 278	left	hazel	right	57	female	9.0	1.800000e+01
## 279	right	hazel	right	50	male	10.0	1.500000e+01
## 280	right	hazel	right	24	male	9.0	1.600000e+01
## 281	right	blue-green	right	23	female	10.0	1.400000e+01
## 282	left	hazel	left	23	male	10.0	1.300000e+01
## 283	left	brown	right	21	male	8.0	2.000000e+01
## 284	left	blue	right	56	male	9.0	1.400000e+01
## 285	left	brown	right	56	female	9.0	1.500000e+01
## 286	right	hazel	right	17	male	9.0	1.600000e+01
## 297	right	blue	right	28	female	10.0	2.000000e+01
## 298	right	brown	right	27	male	10.0	2.400000e+01
## 299	right	blue	right	61	female	10.0	2.600000e+01
## 300	right	blue	right	61	male	10.0	2.300000e+01
## 301	right	brown	right	54	female	10.0	2.000000e+01
## 302	right	hazel	right	55	male	9.0	1.800000e+01
## 303	right	hazel	right	63	female	9.0	2.200000e+01
## 304	right	hazel	right	28	female	9.0	2.100000e+01
## 305	right	hazel	right	27	male	10.0	2.500000e+01
## 306	right	blue	right	36	female	8.0	2.100000e+01
## 307	right	brown	right	23	male	10.0	1.500000e+01
## 308	right	brown	right	25	female	10.0	1.800000e+01
## 309	right	brown	left	50	female	10.0	2.000000e+01
## 310	right	brown	left	94	female	10.0	1.900000e+01
## 311	right	brown	right	72	female	9.0	2.300000e+01
## 312	right	black	right	72	male	9.0	1.500000e+01
## 313	both	brown	left	76	female	9.0	1.600000e+01
## 314	right	brown	left	68	female	9.0	1.500000e+01
## 315	both	black	right	75	male	9.0	1.900000e+01
## 316	both	brown	right	77	male	9.0	2.100000e+01
## 317	right	brown	right	27	male	9.0	1.600000e+01
## 318	left	brown	left	58	female	10.0	1.400000e+01
## 319	right	blue	right	52	male	8.0	2.100000e+01
## 320	right	blue	right	53	female	10.0	1.900000e+01
## 321	right	hazel	right	60	male	9.0	1.500000e+01
## 322	right	blue	right	61	female	10.0	1.700000e+01
## 323	right	blue	right	68	female	10.0	1.500000e+01
## 324	right	brown	right	69	male	7.0	1.900000e+01
## 325	right	blue	right	11	male	10.0	2.100000e+01
## 326	right	hazel	right	30	male	10.0	1.200000e+01
## 327	right	brown	right	62	f	8.0	2.500000e+01
## 328	right	brown	right	68	m	8.0	2.500000e+01

## 329	left	blue	right	36	m	8.0	1.000000e+01
## 330	right	green	right	42	f	8.0	1.000000e+01
## 331	left	brown	right	33	f	6.0	1.500000e+01
## 332	left	brown	right	34	m	6.0	1.500000e+01
## 333	right	brown	right	36	m	9.0	2.000000e+01
## 334	left	brown	right	38	f	8.0	1.000000e+01
## 335	left	hazel	left	40	m	8.0	1.500000e+01
## 337	both	brown	left	23	male	10.0	9.500000e+00
## 338	both	brown	left	23	female	9.0	9.750000e+00
## 339	left	brown	left	31	male	8.0	1.325000e+01
## 340	left	brown	right	60	male	7.0	2.700000e+01
## 341	right	brown	left	52	female	7.0	2.500000e+01
## 342	right	blue	left	64	male	8.0	1.950000e+01
## 343	both	brown	left	47	female	8.0	2.600000e+01
## 344	both	brown	right	25	male	9.0	2.475000e+01
## 345	both	brown	left	22	female	7.0	2.500000e+01
## 346	right	brown	left	17	female	10.0	1.700000e+01
## 347	"right"	"brown"	"right"	25	"male"	9.0	NA
## 348	"both"	"brown"	"right"	26	"male"	8.0	1.700000e+01
## 350	"right"	"brown"	"right"	28	"male"	8.0	1.500000e+01
## 351	"right"	"blue"	"right"	58	"female"	9.0	NA
## 352	"right"	"brown"	"right"	26	"female"	8.0	1.700000e+01
## 353	"right"	"blue"	"right"	24	"female"	9.0	NA
## 354	"left"	"blue"	"right"	28	"male"	9.0	1.850000e+01
## 355	"left"	"brown"	"right"	59	"male"	9.0	NA
## 356	"right"	"brown"	"right"	28	"female"	9.0	1.850000e+01
## 357	right	brown	right	21	female	10.0	1.800000e+01
## 358	right	grey-green	right	22	female	9.0	2.000000e+01
## 359	right	grey	right	58	female	9.0	1.900000e+01
## 360	right	blue-green	right	17	female	9.0	1.800000e+01
## 361	right	blue-green	right	51	female	9.0	1.800000e+01
## 362	left	blue-grey	right	53	male	9.0	1.900000e+01
## 363	left	brown	right	21	female	9.0	2.000000e+01
## 364	right	brown	right	55	female	10.0	1.500000e+01
## 365	left	blue	right	56	male	10.0	1.600000e+01
## 366	right	brown	right	22	male	9.0	2.000000e+01
## 367	equal	brown	right	28	female	10.0	1.000000e+01
## 368	equal	brown	right	38	male	10.0	1.000000e+01
## 369	left	brown	right	28	female	7.0	1.500000e+01
## 370	right	green	right	29	male	7.0	1.500000e+01
## 371	equal	brown	right	63	female	7.0	1.200000e+01
## 372	right	blue	right	32	male	8.0	9.000000e+00
## 373	equal	brown	right	29	female	6.0	8.000000e+00
## 374	left	brown	right	48	female	7.0	1.000000e+01
## 375	equal	brown	right	55	female	7.0	1.000000e+01
## 376	right	hazel	right	39	female	6.0	1.000000e+01
## 377	right	Brown	right	22	male	10.0	2.400000e+01
## 378	left	Brown	right	11	female	9.0	2.000000e+01
## 379	left	Brown	left	13	male	9.0	1.700000e+01
## 380	left	Brown	right	17	male	8.0	1.600000e+01
## 381	right	Brown	left	14	male	10.0	2.700000e+01
## 382	left	Brown	right	22	male	9.0	2.600000e+01
## 383	left	Brown	left	21	male	10.0	1.600000e+01
## 384	right	Brown	right	22	female	10.0	1.900000e+01


```
## 22          white
## 23          white
## 24      laotian
## 25          white
## 26  african american
## 27          white
## 28          white
## 29          white
## 30          white
## 31          white
## 32          white
## 33          white
## 34          white
## 35          white
## 36          white
## 37          white
## 38          white
## 39          white
## 40          white
## 41          white
## 75          white
## 76          white
## 77          white
## 78          white
## 79          white
## 80          white
## 81          white
## 82      hispanic
## 83          white
## 84          white
## 85      caucasian
## 86          white
## 87      chinese
## 88          asian
## 89          anglo
## 90      caucasian
## 91      caucasian
## 92      caucasian
## 93      caucasian
## 94      caucasian
## 95      caucasian
## 96      caucasian
## 97  White Non-Hispanic
## 98  White Non-Hispanic
## 99  White Non-Hispanic
## 100 White Non-Hispanic
## 101 White Non-Hispanic
## 102 White Non-Hispanic
## 103 White Non-Hispanic
## 104 White Non-Hispanic
## 105 White Non-Hispanic
## 106 White Non-Hispanic
## 107          white
## 108          white
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## 109	white
## 110	white
## 111	white
## 112	white
## 113	white
## 114	white
## 115	white
## 116	hispanic
## 117	White
## 118	Japanese
## 119	Japanese
## 120	White
## 121	White
## 122	White
## 123	White
## 124	Native American
## 125	Filipino
## 126	White
## 127	white
## 128	white
## 129	white
## 130	white
## 131	white
## 132	white
## 133	white
## 134	Filipino
## 135	white
## 136	white
## 227	caucasian
## 228	caucasian
## 229	caucasian
## 230	caucasian
## 231	caucasian
## 232	caucasian
## 233	caucasian
## 234	caucasian
## 235	hispanic
## 236	caucasian
## 237	white
## 238	white
## 239	white
## 240	white
## 241	white
## 242	white
## 243	asian
## 244	white
## 245	latin american
## 246	asian
## 277	white
## 278	white
## 279	white
## 280	white
## 281	white
## 282	white


```
## 283    white-filipino
## 284         white
## 285         white
## 286         white
## 297         white
## 298         white
## 299         white
## 300         white
## 301         white
## 302         white
## 303         white
## 304         white
## 305         white
## 306         white
## 307         Asain
## 308         Asain
## 309         Asain
## 310         Asain
## 311         Asain
## 312         Asain
## 313         Asain
## 314         Asain
## 315         Asain
## 316         Asain
## 317         white
## 318         white
## 319         white
## 320         white
## 321         white
## 322         white
## 323         white
## 324         white
## 325         white
## 326         white
## 327         korean
## 328         korean
## 329         white
## 330         white
## 331         korean
## 332         white
## 333         indian
## 334         korean
## 335         white
## 337    Caucasian/Asian
## 338         Asian
## 339         Asian
## 340         Asian
## 341         Asian
## 342         Caucasian
## 343         Asian
## 344    Caucasian/Asian
## 345    Caucasian/Asian
## 346    Caucasian/Asian
## 347        "caucasian"
```

```
## 348          "asian"
## 350    "asian/latino"
## 351          "caucasian"
## 352    "asian/latino"
## 353          "caucasian"
## 354          "caucasian"
## 355          "caucasian"
## 356          "caucasian"
## 357          white
## 358          white
## 359          white
## 360          white
## 361          white
## 362          white
## 363          white
## 364          white
## 365          white
## 366          asian
## 367          asian
## 368          white
## 369          asian
## 370          white
## 371          asian
## 372          white
## 373          white
## 374          hispanic
## 375    pacific islander
## 376          hispanic
## 377    African American
## 378    African American
## 379    African American
## 380    African American
## 381    African American
## 382          Asian
## 383          Caucasian
## 384          Caucasian
## 385    African American
## 386          Asian
## 387          white
## 388          white
## 389          latino
## 390          white
## 391          white
## 392          white
## 393          white
## 394          white
## 395          asian
## 396          asian
## 397          white
## 398          white
## 399          white
## 400          white
## 401          white
## 402    native american
```

```
## 403         white
## 404     white italian
## 405 japanese italian
## 406         white
## 407         caucasain
## 408         caucasain
## 409         caucasain
## 410         caucasain
## 411         caucasain
## 412         caucasain
## 413         caucasain
## 414         caucasain
## 415         caucasain
## 416         caucasain
## 417         white
## 418         white
## 419         asian
## 420         asian
## 421         white
## 422         white
## 423         white
## 424         white
## 425         white
## 426         white
##
## 1
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possible a

Possible ancestry

Possible ancestry may

Possible ancestry may

Poss

Possible ancestry

127 oldest son of 1b83d5da74032b6a75
128 Middle son of 1b83d5da74032b6a75
129 Youngest son of 1b83d5da74032b6a75
130 Mother of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b6386
131 Father of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b63
132
133
134
135
136
227 possible
228
229 possible ancestry
230 possible ancestry
231 possible
232
233 possible
234
235 possible ancestry may include: majority Guatemalan, very young so has not established a dominant
236 possible
237
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283 white :
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307 possible ancestry may include: Taiwanese,
308 possible anc
309 possible ancestry may include: Taiwanese,
310 possible ancestry may include: Taiwanese,

311 possible ancestry may include: Taiwanese,
312 possible anc
313 possible ancestry may include: Taiwanese,
314 possible anc
315 possible ancestry may include: Taiwanese,
316 possible anc
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338 Ancestry includes: (A
339 Ancestry includes: (A
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357 white european, I gave a
358 white european, I gave a 9 on quality because I did not do the measurement
359 white european, I gave a 9 on quality because I did not do the measurement
360 white european, I gave a 9 on quality because I did not do the measurement
361 white european, I gave a 9 on quality because I did not do the measurement
362 white european, I gave a 9 on quality because I did not do the measurement
363 white european, I gave a 9 on quality because I did not do the measurement
364 white european, I gave a
365 white european, I gave a
366 vietnamese, I gave a 9 on quality because I did not do the measurement

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possible ancestry may :

possible ancestry may include: E

possible ancers:

possible ancerstry may

```

## 421
## 422
## 423
## 424
## 425
## 426
##      my.units hand.length hand.width hand.elbow elbow.armpit arm.reach
## 1      cm      16.95000    18.15000    34.90000     22.50000    188.2000
## 2      cm      18.55000    19.70000    45.55000     26.00000    223.0000
## 3      cm      15.00000    14.00000    52.00000     33.00000    183.0000
## 4      cm      17.00000    19.00000    39.00000     29.00000    202.0000
## 5      cm      20.00000    24.00000    43.00000     28.00000    231.0000
## 6      cm      18.35000    20.30000    37.65000     31.50000    206.0000
## 7      cm      17.05000    18.80000    36.45000     25.00000    150.1000
## 8      cm      17.00000    18.50000    36.00000     24.50000    192.0000
## 9      cm      18.00000    14.00000    38.50000     20.00000     38.0000
## 10     cm      17.00000    19.00000    38.70000     27.70000    201.1000
## 21     cm      17.00000    16.30000    40.00000     30.00000     52.5000
## 22     cm      17.90000    18.60000    46.05000     57.00000     71.0000
## 23     cm      17.20000    17.55000    38.00000     21.50000     57.5000
## 24     cm      18.35000    19.55000    44.35000     28.00000     64.9000
## 25     cm      17.20000    17.70000    42.50000     23.25000     66.0000
## 26     cm      18.20000    19.65000    43.20000     29.65000     60.0000
## 27     cm      18.60000    22.00000    47.20000     32.40000     66.7000
## 28     cm      17.20000    18.90000    44.10000     28.00000     64.9500
## 29     cm      17.15000    19.15000    44.50000     24.00000     65.0000
## 30     cm      16.30000    17.10000    40.35000     24.50000     56.2000
## 31     in      19.20875    21.74875    48.26000     24.76500    228.6000
## 32     in      12.54125    13.97000    28.25750     18.09750    137.7950
## 33     in      13.17625    15.08125    32.06750     21.59000    145.4150
## 34     in      19.84375    22.86000    48.89500     31.75000    221.9325
## 35     in      17.46250    19.52625    41.59250     29.84500    202.2475
## 36     in      12.70000    13.81125    30.79750     22.54250    143.0337
## 37     in      18.25625    18.33563    40.79875     28.49563    190.8175
## 38     in      18.17688    20.95500    43.41813     31.27375    190.9762
## 39     in      16.35125    19.12938    42.86250     29.52750    202.5650
## 40     in      20.32000    21.27250    48.73625     31.11500    224.1550
## 41     in      17.30375    20.47875    43.18000     29.52750    201.1363
## 75     cm      19.25000    21.75000    45.50000     30.50000    225.7500
## 76     cm      17.78000    22.86000    46.22800     29.50000    152.5000
## 77     cm      17.05000    22.10000    44.65000     28.00000    147.3000
## 78     cm      16.00000    20.00000    41.00000     26.50000    135.0000
## 79     cm      16.00000    21.00000    42.00000     26.50000    138.5000
## 80     cm      18.00000    23.00000    47.00000     30.50000    156.0000
## 81     cm      18.00000    23.00000    47.00000     29.50000    154.5000
## 82     cm      16.00000    20.00000    41.00000     26.50000    136.0000
## 83     cm      18.00000    23.00000    47.00000     30.50000    156.0000
## 84     cm      18.00000    23.00000    48.00000     30.50000    157.0000
## 85     cm      19.50000    21.25000    40.50000     25.50000    224.7500
## 86     cm      18.00000    19.00000    40.50000     25.50000    206.0000
## 87     cm      18.00000    18.00000    39.50000     19.50000    199.5000
## 88     cm       8.00000    10.00000    30.00000     23.00000    234.0000
## 89     cm      20.00000    22.75000    23.50000     16.00000    223.0000
## 90     cm      19.50000    21.00000    41.00000     24.00000    208.0000

```

## 91	cm	17.75000	20.50000	45.00000	21.00000	211.0000
## 92	cm	18.50000	21.50000	44.25000	29.00000	223.5000
## 93	cm	21.00000	10.00000	47.00000	71.00000	243.0000
## 94	cm	16.50000	10.75000	43.50000	29.00000	120.5000
## 95	cm	16.00000	10.00000	38.00000	23.00000	77.7500
## 96	cm	21.00000	11.00000	44.50000	30.00000	237.5000
## 97	in	19.49450	21.01850	28.76550	30.48000	219.0750
## 98	in	17.14500	19.05000	NaN	NaN	NaN
## 99	in	11.74750	14.28750	NaN	NaN	NaN
## 100	in	9.20750	11.43000	NaN	NaN	NaN
## 101	in	16.51000	18.41500	NaN	NaN	NaN
## 102	in	17.78000	20.95500	NaN	NaN	NaN
## 103	in	17.14500	20.32000	NaN	NaN	NaN
## 104	in	17.78000	21.27250	NaN	NaN	NaN
## 105	in	16.51000	18.73250	NaN	NaN	NaN
## 106	in	19.05000	21.27250	NaN	NaN	NaN
## 107	cm	18.87500	20.17500	45.74500	68.58000	71.7550
## 108	cm	16.51000	12.70000	40.32250	26.98750	61.5950
## 109	cm	19.68500	12.06500	46.35000	25.71750	73.0250
## 110	cm	19.30400	14.60500	NaN	NaN	NaN
## 111	cm	15.24000	15.24000	NaN	NaN	NaN
## 112	cm	19.05000	17.14500	NaN	NaN	NaN
## 113	cm	19.05000	17.78000	NaN	NaN	NaN
## 114	cm	20.32000	15.24000	NaN	NaN	NaN
## 115	cm	19.68500	15.24000	NaN	NaN	NaN
## 116	cm	16.51000	13.97000	NaN	NaN	NaN
## 117	cm	20.32000	24.13000	45.08500	33.02000	238.7600
## 118	cm	17.78000	20.32000	38.10000	26.67000	205.7400
## 119	cm	16.51000	19.05000	37.46500	22.86000	186.0550
## 120	cm	15.87500	17.14500	34.29000	17.14500	184.1500
## 121	cm	13.97000	15.87500	31.75000	22.86000	170.1800
## 122	cm	14.60500	15.87500	30.48000	22.86000	163.1950
## 123	cm	18.50000	21.50000	40.50000	NaN	218.0000
## 124	cm	19.50000	24.00000	49.50000	NaN	230.0000
## 125	cm	13.97000	15.25000	35.56000	20.32000	177.8000
## 126	cm	18.75000	21.25000	45.00000	26.00000	163.5000
## 127	cm	18.50000	NaN	47.95000	28.90000	66.5500
## 128	cm	17.80000	NaN	43.20000	23.85000	61.6000
## 129	cm	19.10000	NaN	47.00000	26.35000	63.2000
## 130	cm	17.10000	NaN	42.50000	22.90000	61.3000
## 131	cm	19.70000	NaN	48.90000	25.40000	66.9500
## 132	cm	21.50000	NaN	48.00000	29.00000	NaN
## 133	cm	19.70000	NaN	50.50000	32.70000	NaN
## 134	cm	18.75000	NaN	52.25000	32.50000	66.0000
## 135	cm	18.00000	NaN	46.25000	26.00000	59.2500
## 136	cm	17.50000	NaN	44.00000	29.00000	64.2500
## 227	cm	17.00000	19.00000	38.50000	26.50000	208.5000
## 228	cm	19.00000	20.75000	40.50000	22.25000	214.5000
## 229	cm	19.25000	19.25000	40.25000	23.75000	217.7500
## 230	cm	19.00000	18.75000	41.50000	25.50000	218.2500
## 231	cm	20.25000	24.00000	49.25000	28.50000	234.2500
## 232	cm	18.75000	19.50000	40.25000	32.25000	204.2500
## 233	cm	19.00000	19.50000	43.75000	22.75000	222.7500
## 234	cm	19.00000	20.25000	43.50000	21.00000	230.0000

## 235	cm	12.25000	13.25000	25.25000	10.00000	107.2500
## 236	cm	20.00000	21.25000	45.25000	23.50000	221.2500
## 237	cm	15.50000	18.50000	42.50000	23.50000	199.2312
## 238	cm	18.75000	19.50000	47.25000	24.50000	214.3125
## 239	cm	16.50000	20.50000	43.00000	25.50000	202.2475
## 240	cm	19.50000	23.50000	49.50000	23.50000	230.1875
## 241	cm	20.00000	20.00000	45.00000	31.00000	212.0000
## 242	cm	21.00000	22.00000	46.00000	31.00000	218.0000
## 243	cm	16.60000	17.00000	39.65000	21.05000	195.3500
## 244	cm	18.00000	20.00000	45.50000	27.00000	220.3450
## 245	cm	20.00000	23.75000	52.00000	27.00000	228.0000
## 246	cm	17.00000	7.00000	38.00000	18.00000	207.0000
## 277	cm	21.50000	24.25000	47.00000	28.00000	233.5000
## 278	cm	18.00000	20.50000	39.50000	28.00000	206.0000
## 279	cm	24.00000	26.50000	43.00000	28.00000	224.7500
## 280	cm	20.50000	25.00000	44.50000	30.50000	233.0000
## 281	cm	16.50000	20.00000	39.00000	24.00000	201.0000
## 282	cm	19.00000	21.00000	45.50000	25.50000	239.5000
## 283	cm	19.00000	21.75000	45.00000	24.00000	215.0000
## 284	cm	22.00000	25.00000	45.50000	28.50000	232.0000
## 285	cm	17.50000	19.25000	37.00000	25.00000	198.0000
## 286	cm	22.00000	23.50000	45.00000	26.75000	232.2500
## 297	in	16.51000	16.82750	37.46500	24.44750	194.3100
## 298	in	18.83410	20.32000	46.99000	33.43910	225.5838
## 299	in	18.98650	19.45640	41.27500	25.08250	191.9732
## 300	in	20.95500	22.98700	46.26610	33.75660	223.0437
## 301	in	18.41500	20.95500	44.13250	32.38500	203.2000
## 302	in	19.05000	20.00250	47.94250	34.29000	234.6325
## 303	in	17.78000	18.51660	40.76700	23.17750	203.9366
## 304	in	17.78000	19.72945	43.05300	28.57500	207.9943
## 305	in	20.00250	21.59000	51.11750	38.10000	240.3475
## 306	in	17.78000	19.05000	40.00500	24.76500	209.5500
## 307	cm	17.75000	20.00000	43.00000	22.00000	216.5000
## 308	cm	18.00000	19.75000	42.00000	22.50000	206.7500
## 309	cm	16.50000	18.50000	39.00000	28.50000	196.5000
## 310	cm	17.00000	16.50000	39.50000	20.00000	192.0000
## 311	cm	18.50000	19.50000	42.00000	24.00000	203.5000
## 312	cm	19.00000	20.25000	43.75000	21.50000	214.0000
## 313	cm	18.00000	18.75000	40.50000	21.00000	194.5000
## 314	cm	16.50000	19.50000	37.75000	19.50000	181.5000
## 315	cm	16.75000	19.75000	43.00000	21.50000	196.0000
## 316	cm	17.75000	19.50000	23.50000	20.50000	201.0000
## 317	in	18.89125	21.74875	45.87875	33.02000	225.4250
## 318	in	16.51000	20.32000	40.00500	24.76500	218.4400
## 319	in	17.78000	20.00250	43.18000	27.94000	226.0600
## 320	in	15.87500	17.78000	37.46500	20.32000	197.2818
## 321	in	223.20250	18.09750	45.72000	24.76500	220.9800
## 322	in	17.46250	16.19250	38.73500	24.76500	194.9450
## 323	in	17.78000	18.09750	40.32250	20.63750	190.5000
## 324	in	18.41500	20.32000	41.59250	27.30500	207.0100
## 325	in	17.78000	17.78000	41.27500	27.94000	204.4700
## 326	in	19.05000	20.32000	49.21250	34.29000	237.1725
## 327	cm	17.00000	19.50000	39.50000	23.50000	199.5000
## 328	cm	19.50000	20.50000	41.75000	25.00000	211.5000

## 329	cm	21.00000	22.25000	51.12500	36.50000	244.5000
## 330	cm	19.87500	21.62500	46.75000	28.75000	234.3750
## 331	cm	16.75000	19.50000	40.50000	21.50000	198.5000
## 332	cm	17.50000	20.50000	44.50000	25.75000	234.0000
## 333	cm	18.25000	19.50000	46.00000	30.50000	84.0000
## 334	cm	17.40000	17.80000	43.00000	28.50000	204.2500
## 335	cm	18.00000	20.00000	43.50000	31.12500	218.4500
## 337	cm	19.50000	21.50000	45.00000	22.50000	205.0000
## 338	cm	18.00000	18.50000	41.00000	23.00000	195.0000
## 339	cm	17.50000	16.00000	33.50000	20.50000	172.0000
## 340	cm	20.25000	19.50000	40.50000	20.50000	196.5000
## 341	cm	19.00000	19.00000	39.50000	20.50000	189.5000
## 342	cm	19.00000	22.00000	43.00000	20.00000	212.5000
## 343	cm	17.00000	18.50000	37.25000	20.50000	179.5000
## 344	cm	19.25000	21.00000	41.50000	20.25000	197.0000
## 345	cm	17.00000	17.00000	35.50000	19.00000	184.0000
## 346	cm	17.00000	16.50000	37.00000	20.00000	181.5000
## 347	in	19.05000	25.40000	49.21250	21.90750	234.6325
## 348	in	17.46250	19.36750	40.64000	25.40000	199.7456
## 350	in	18.66900	19.93900	41.02100	25.78100	218.4400
## 351	in	19.93900	22.60600	45.97400	28.70200	228.0920
## 352	in	19.05000	21.27250	44.45000	26.98750	201.9300
## 353	in	18.41500	21.59000	44.76750	35.56000	224.4725
## 354	in	18.41500	20.95500	41.91000	20.32000	208.2800
## 355	in	20.82800	25.40000	45.97400	26.79700	236.0930
## 356	in	18.41500	20.32000	43.18000	22.22500	215.9000
## 357	cm	18.40000	20.85000	47.15000	31.50000	222.0000
## 358	cm	19.90000	20.35000	41.85000	30.50000	225.5000
## 359	cm	20.05000	22.00000	44.60000	34.00000	227.0000
## 360	cm	15.85000	17.65000	39.60000	27.80000	194.8500
## 361	cm	17.00000	19.65000	42.75000	29.10000	209.6500
## 362	cm	17.80000	19.90000	43.85000	30.00000	201.0000
## 363	cm	17.00000	20.05000	44.20000	30.00000	216.7500
## 364	cm	18.90000	21.25000	45.45000	31.75000	213.0000
## 365	cm	20.00000	22.60000	50.60000	34.75000	237.5000
## 366	cm	19.00000	21.50000	40.00000	21.25000	218.5000
## 367	cm	19.00000	21.90000	44.50000	25.65000	208.9000
## 368	cm	19.70000	21.60000	47.60000	26.70000	230.9500
## 369	cm	17.20000	19.50000	35.90000	26.00000	197.9500
## 370	cm	18.90000	21.10000	41.50000	25.40000	212.0000
## 371	cm	17.10000	20.30000	41.50000	24.15000	207.2000
## 372	cm	18.40000	20.30000	45.45000	24.75000	226.5500
## 373	cm	15.00000	18.00000	39.15000	21.10000	200.4500
## 374	cm	18.00000	22.00000	40.50000	24.50000	213.0000
## 375	cm	21.20000	22.10000	46.55000	20.30000	212.5000
## 376	cm	17.15000	20.30000	41.95000	35.55000	212.2000
## 377	in	17.78000	19.05000	43.18000	23.49500	205.7400
## 378	in	15.97660	15.24000	38.73500	23.69820	196.8500
## 379	in	17.78000	16.82750	43.49750	27.94000	212.0900
## 380	in	17.14500	15.24000	42.54500	25.40000	224.7900
## 381	in	20.00250	21.90750	46.67250	36.51250	199.0725
## 382	in	21.59000	22.22500	46.03750	38.10000	200.9775
## 383	in	22.22500	22.86000	47.30750	40.64000	207.3275
## 384	in	15.87500	18.09750	38.10000	21.90750	194.3100

## 385	in	16.51000	15.24000	39.37000	34.29000	152.4000
## 386	in	18.41500	19.68500	45.72000	24.13000	213.3600
## 387	cm	19.50000	22.00000	38.50000	38.50000	211.0000
## 388	cm	20.00000	20.15000	41.75000	24.75000	218.2500
## 389	cm	19.75000	22.50000	43.00000	22.75000	221.7500
## 390	cm	19.75000	22.45000	45.40000	31.00000	239.0000
## 391	cm	20.40000	21.90000	46.50000	26.75000	229.7500
## 392	cm	19.70000	23.00000	44.25000	26.00000	226.0000
## 393	in	18.41500	22.86000	45.72000	23.49500	208.9150
## 394	in	17.78000	19.05000	40.64000	19.05000	194.9450
## 395	in	18.41500	17.46250	41.27500	24.76500	187.3250
## 396	cm	19.35000	19.10000	41.75000	26.00000	221.7500
## 397	cm	19.00000	24.00000	49.00000	23.00000	244.0000
## 398	cm	19.50000	20.50000	46.50000	22.00000	240.0000
## 399	cm	21.00000	22.50000	47.50000	25.00000	236.0000
## 400	cm	17.00000	21.00000	43.00000	21.00000	216.0000
## 401	cm	21.00000	24.00000	45.00000	20.50000	223.5000
## 402	cm	17.25000	21.25000	40.75000	21.25000	207.0000
## 403	cm	20.00000	20.00000	NaN	29.00000	236.0000
## 404	cm	18.00000	18.00000	43.00000	20.50000	206.0000
## 405	cm	19.00000	22.00000	46.00000	25.50000	228.5000
## 406	cm	17.00000	19.00000	40.00000	20.00000	210.0000
## 407	cm	17.35000	21.80000	44.80000	28.15000	209.7500
## 408	cm	17.35000	19.90000	41.80000	30.35000	206.0000
## 409	cm	16.85000	16.95000	39.45000	23.55000	198.3500
## 410	cm	17.75000	19.95000	42.80000	26.55000	199.6500
## 411	cm	19.30000	23.20000	45.10000	36.55000	222.3500
## 412	cm	15.25000	19.65000	40.75000	29.25000	203.9000
## 413	cm	16.45000	18.20000	41.70000	29.95000	207.7000
## 414	cm	16.65000	18.95000	44.20000	32.30000	211.2500
## 415	cm	175.20000	21.35000	41.90000	32.05000	216.0500
## 416	cm	17.60000	17.85000	43.25000	30.05000	210.2000
## 417	cm	20.25000	22.10000	44.75000	22.75000	232.5000
## 418	cm	18.75000	19.50000	46.12500	26.75000	218.4400
## 419	cm	19.59250	19.84250	40.82000	22.62500	200.9775
## 420	cm	18.57375	18.89125	43.18000	19.36750	203.0412
## 421	cm	20.00250	22.38375	44.60875	26.19375	230.6637
## 422	cm	16.98625	19.05000	39.68750	22.86000	207.9625
## 423	cm	15.24000	17.30375	33.02000	17.78000	167.6400
## 424	cm	19.68500	22.86000	42.54500	28.57500	227.3300
## 425	cm	17.78000	18.09750	38.73500	28.57500	219.0750
## 426	cm	17.46250	18.73250	38.73500	28.25750	212.7250
##	foot.length	floor.kneepit	floor.hip	floor.arpit	my.ethnicity	my.gender
## 1	21.65000	37.50000	87.75000	123.5000	w	f
## 2	23.00000	50.25000	102.25000	140.7500	h	m
## 3	20.00000	41.00000	102.00000	139.0000	b	m
## 4	23.00000	39.00000	88.00000	127.0000	w	f
## 5	25.00000	42.00000	99.00000	144.0000	w	f
## 6	25.40000	42.25000	96.00000	131.3000	w	m
## 7	21.95000	38.50000	89.50000	122.0000	w	f
## 8	22.00000	38.50000	88.00000	123.0000	w	m
## 9	26.00000	45.00000	96.00000	135.0000	w	f
## 10	23.30000	38.50000	88.00000	127.0000	w	f
## 21	21.80000	40.90000	88.90000	116.5000	w	f

## 22	24.90000	51.25000	105.00000	143.8500	w	m
## 23	22.75000	41.95000	90.15000	118.8500	w	f
## 24	23.65000	46.50000	103.35000	127.5000	a	f
## 25	22.30000	43.60000	99.50000	126.0000	w	f
## 26	24.00000	45.45000	92.15000	122.5000	b	f
## 27	26.20000	45.25000	102.45000	141.5000	w	m
## 28	23.65000	44.90000	95.25000	132.0000	w	f
## 29	21.75000	45.85000	101.40000	130.1500	w	m
## 30	22.15000	41.00000	95.60000	119.9000	w	f
## 31	28.57500	48.57750	104.45750	146.6850	w	m
## 32	16.19250	32.86125	65.08750	88.9000	w	f
## 33	18.73250	31.59125	68.89750	90.1700	w	f
## 34	26.67000	50.48250	108.42625	144.6213	w	m
## 35	22.22500	43.49750	97.15500	131.1275	w	f
## 36	18.89125	30.79750	67.78625	89.8525	w	f
## 37	23.97125	49.53000	93.34500	125.4125	w	f
## 38	24.92375	44.29125	95.56750	138.7475	w	f
## 39	22.54250	43.33875	93.34500	128.2700	w	f
## 40	26.03500	50.00752	106.83875	145.7325	w	m
## 41	23.81250	43.33875	95.72625	132.3975	w	f
## 75	26.50000	43.25000	93.75000	135.0000	w	m
## 76	25.40000	45.66000	99.03000	135.9500	w	m
## 77	24.00000	44.00000	95.65000	131.2500	w	m
## 78	22.50000	40.50000	88.00000	120.0000	w	f
## 79	23.00000	41.50000	90.00000	123.0000	w	f
## 80	26.00000	47.00000	101.00000	139.0000	w	m
## 81	26.00000	46.00000	100.00000	138.0000	w	m
## 82	23.00000	41.00000	88.50000	122.0000	h	f
## 83	26.00000	47.00000	101.00000	139.0000	w	m
## 84	26.00000	47.00000	101.50000	139.0000	w	m
## 85	28.00000	46.50000	106.00000	137.0000	w	m
## 86	23.00000	44.25000	100.75000	135.2500	w	f
## 87	23.00000	39.50000	82.25000	121.5000	a	m
## 88	20.00000	43.00000	104.00000	139.0000	a	m
## 89	26.75000	49.00000	100.50000	129.5000	w	m
## 90	25.25000	45.00000	102.00000	128.0000	w	f
## 91	24.00000	42.00000	94.00000	130.0000	w	f
## 92	25.75000	49.00000	100.50000	137.0000	w	m
## 93	29.00000	56.00000	103.00000	141.0000	w	m
## 94	25.00000	51.00000	92.50000	139.5000	w	m
## 95	13.50000	42.00000	84.75000	124.7500	w	f
## 96	28.50000	53.00000	113.00000	144.0000	w	m
## 97	25.08250	45.72000	93.98000	132.0800	w	m
## 98	NaN	NaN	NaN	NaN	w	f
## 99	NaN	NaN	NaN	NaN	w	m
## 100	NaN	NaN	NaN	NaN	w	f
## 101	NaN	NaN	NaN	NaN	w	f
## 102	NaN	NaN	NaN	NaN	w	m
## 103	NaN	NaN	NaN	NaN	w	f
## 104	NaN	NaN	NaN	NaN	w	m
## 105	NaN	NaN	NaN	NaN	w	f
## 106	NaN	NaN	NaN	NaN	w	m
## 107	24.44750	48.26000	97.15500	133.3500	w	m
## 108	22.86000	45.72000	101.28250	124.4600	w	f

## 109	27.62250	49.53000	98.10750	137.7950	w	m
## 110	NaN	NaN	NaN	NaN	w	m
## 111	NaN	NaN	NaN	NaN	w	f
## 112	NaN	NaN	NaN	NaN	w	f
## 113	NaN	NaN	NaN	NaN	w	f
## 114	NaN	NaN	NaN	NaN	w	m
## 115	NaN	NaN	NaN	NaN	w	m
## 116	NaN	NaN	NaN	NaN	h	f
## 117	29.21000	45.72000	104.14000	152.4000	w	m
## 118	22.86000	38.10000	92.07500	129.0000	a	f
## 119	22.86000	34.92500	90.17000	118.1100	a	f
## 120	21.59000	37.46500	90.17000	112.3950	w	m
## 121	20.32000	35.56000	79.37500	106.0450	w	m
## 122	20.32000	33.02000	80.01000	104.1400	w	m
## 123	28.00000	50.00000	NaN	135.0000	w	m
## 124	29.00000	54.00000	NaN	143.0000	nat	m
## 125	21.59000	38.10000	78.74000	111.7600	pi	f
## 126	26.75000	43.50000	98.75000	148.5000	w	m
## 127	24.80000	53.30000	NaN	120.6500	w	m
## 128	25.40000	44.80000	NaN	106.0500	w	m
## 129	30.50000	49.20000	NaN	118.7500	w	m
## 130	24.25000	41.60000	NaN	104.1500	w	f
## 131	28.25000	54.60000	NaN	125.7500	w	m
## 132	30.00000	50.00000	NaN	143.0000	w	m
## 133	27.00000	47.80000	NaN	123.8500	w	m
## 134	26.00000	51.00000	NaN	120.0000	pi	m
## 135	24.50000	47.25000	NaN	113.2500	w	m
## 136	25.50000	44.25000	NaN	113.2500	w	m
## 227	23.75000	45.50000	100.50000	126.2500	w	f
## 228	27.50000	49.00000	101.50000	137.7500	w	m
## 229	25.75000	47.25000	99.75000	135.0000	w	f
## 230	25.00000	45.75000	100.50000	136.0000	w	f
## 231	30.00000	49.50000	109.75000	151.0000	w	m
## 232	27.25000	49.50000	100.50000	131.7500	w	f
## 233	24.25000	48.50000	103.00000	132.2500	w	f
## 234	26.75000	49.75000	95.50000	137.7500	w	m
## 235	14.75000	23.50000	46.75000	69.5000	h	f
## 236	25.25000	50.50000	103.50000	144.2500	w	m
## 237	23.50000	42.00000	93.50000	115.5000	w	f
## 238	26.50000	46.00000	103.00000	126.0000	w	f
## 239	23.50000	40.00000	94.00000	123.5000	w	f
## 240	26.50000	49.00000	103.00000	133.5000	w	m
## 241	26.00000	50.00000	102.00000	130.0000	w	f
## 242	27.00000	50.00000	105.00000	133.0000	w	m
## 243	23.35000	40.40000	96.15000	122.6000	a	f
## 244	35.50000	74.00000	101.00000	133.0000	w	f
## 245	30.00000	58.00000	104.00000	147.0000	l	m
## 246	23.00000	48.00000	35.00000	106.0000	a	m
## 277	28.50000	44.00000	100.50000	142.5000	w	m
## 278	25.25000	40.50000	96.50000	134.5000	w	f
## 279	28.00000	44.50000	104.25000	142.0000	w	m
## 280	28.00000	47.00000	101.50000	145.0000	w	m
## 281	23.00000	41.50000	97.25000	127.5000	w	f
## 282	26.00000	48.50000	108.00000	144.0000	w	m

## 283	25.00000	43.50000	95.50000	135.7500	wf	m
## 284	28.50000	43.00000	95.50000	142.0000	w	m
## 285	24.50000	39.00000	94.50000	126.0000	w	f
## 286	27.00000	44.00000	98.00000	138.0000	w	m
## 297	21.79320	37.35070	88.58250	123.3932	w	f
## 298	27.07640	50.05070	102.33660	135.8900	w	m
## 299	21.99640	41.37660	86.48700	123.7107	w	f
## 300	25.11425	45.24375	100.11410	136.3663	w	m
## 301	24.13000	43.18000	93.98000	130.8100	w	f
## 302	26.03500	52.07000	107.63250	154.3050	w	m
## 303	22.86000	43.18000	86.80450	129.0637	w	f
## 304	24.33320	42.92600	102.85730	135.0645	w	f
## 305	27.62250	50.80000	104.77500	146.3675	w	m
## 306	22.54250	42.86250	96.08820	130.8100	w	f
## 307	26.00000	47.75000	96.00000	129.0000	a	m
## 308	25.00000	48.50000	94.75000	126.5000	a	f
## 309	23.00000	43.50000	88.50000	119.5000	a	f
## 310	24.00000	48.00000	89.50000	110.5000	a	f
## 311	24.00000	49.50000	96.00000	126.5000	a	f
## 312	25.00000	47.00000	93.50000	130.0000	a	m
## 313	24.00000	47.00000	95.75000	121.0000	a	f
## 314	22.50000	45.25000	93.25000	122.0000	a	f
## 315	22.50000	47.50000	93.00000	122.0000	a	m
## 316	24.00000	49.00000	98.00000	131.5000	a	m
## 317	25.40000	42.22750	89.53500	150.8125	w	m
## 318	23.49500	42.86250	96.52000	130.8100	w	f
## 319	26.67000	45.72000	105.41000	132.0800	w	m
## 320	21.59000	38.10000	87.63000	116.8400	w	f
## 321	25.08250	42.22750	103.82250	141.6050	w	m
## 322	23.81250	41.91000	79.69250	115.5700	w	f
## 323	24.44750	41.27500	90.17000	124.4600	w	f
## 324	25.71750	46.35500	102.23500	137.1600	w	m
## 325	24.76500	48.26000	96.52000	116.8400	w	m
## 326	28.25750	48.26000	104.77500	150.1775	w	m
## 327	21.75000	35.75000	92.50000	123.0000	a	f
## 328	25.25000	44.00000	100.00000	135.5000	a	m
## 329	28.37500	51.50000	105.12500	156.5000	w	m
## 330	26.75000	52.37500	109.00000	149.2500	w	f
## 331	23.50000	40.25000	84.75000	130.0000	a	f
## 332	23.50000	47.50000	102.50000	143.5000	w	m
## 333	26.50000	45.50000	100.75000	127.0000	a	m
## 334	22.30000	40.00000	96.50000	132.7500	a	f
## 335	24.42500	39.25000	91.50000	133.8750	w	m
## 337	26.00000	45.50000	97.00000	131.5000	ca	m
## 338	23.25000	42.00000	88.00000	125.5000	a	f
## 339	22.00000	38.00000	78.50000	108.0000	a	m
## 340	23.75000	44.00000	86.00000	119.0000	a	m
## 341	23.50000	40.50000	83.50000	122.5000	a	f
## 342	26.00000	49.00000	96.50000	134.5000	w	m
## 343	21.00000	43.00000	79.00000	111.5000	a	f
## 344	24.75000	45.00000	89.50000	120.5000	ca	m
## 345	22.75000	42.25000	89.00000	117.5000	ca	f
## 346	23.00000	39.50000	87.50000	112.0000	ca	f
## 347	27.94000	53.34000	99.06000	144.1450	w	m

## 348	23.81250	42.22750	90.17000	125.7300	a	m
## 350	26.03500	44.25950	105.53700	134.8740	al	m
## 351	26.92400	50.03800	107.18800	142.7480	w	f
## 352	23.17750	44.13250	91.75750	127.0000	al	f
## 353	23.49500	51.43500	100.01250	143.5100	w	f
## 354	24.76500	45.08500	92.07500	127.6350	w	m
## 355	29.59100	47.75200	112.39500	153.9240	w	m
## 356	23.17750	46.99000	98.74250	132.0800	w	f
## 357	26.35000	45.10000	94.75000	141.0000	w	f
## 358	25.50000	45.00000	93.00000	142.1000	w	f
## 359	26.55000	48.05000	94.00000	143.0000	w	f
## 360	21.55000	39.25000	82.00000	119.2500	w	f
## 361	24.20000	41.25000	89.00000	126.4500	w	f
## 362	24.20000	42.00000	84.10000	122.6000	w	m
## 363	24.40000	49.00000	87.90000	104.1500	w	f
## 364	25.75000	41.75000	91.75000	132.5000	w	f
## 365	28.25000	47.50000	96.25000	147.0000	w	m
## 366	26.00000	42.00000	93.00000	130.0000	a	m
## 367	24.30000	46.05000	96.75000	127.6000	a	f
## 368	26.70000	51.70000	103.20000	136.2500	w	m
## 369	22.00000	41.00000	91.00000	119.7000	a	f
## 370	25.00000	44.35000	98.50000	131.5000	w	m
## 371	24.15000	43.05000	92.10000	129.1000	a	f
## 372	30.50000	73.55000	101.60000	144.1500	w	m
## 373	22.15000	45.90000	91.45000	132.0000	w	f
## 374	26.50000	43.00000	92.50000	126.2500	h	f
## 375	25.85000	50.50000	94.55000	133.5000	pi	f
## 376	27.50000	45.70000	94.00000	131.4500	h	f
## 377	26.22550	42.22750	88.90000	141.6050	b	m
## 378	22.22500	40.64000	83.82000	114.3000	b	f
## 379	24.13000	48.99660	91.44000	129.5400	b	m
## 380	25.40000	48.26000	96.52000	123.1900	b	m
## 381	26.35250	44.76750	87.63000	130.4925	b	m
## 382	26.67000	44.76750	82.55000	127.9525	a	m
## 383	27.94000	45.72000	84.77250	130.4925	w	m
## 384	21.90750	40.32250	84.77250	130.8100	w	f
## 385	19.68500	46.35500	90.17000	115.5700	b	f
## 386	26.67000	41.27500	87.63000	139.7000	a	m
## 387	24.00000	46.50000	95.75000	127.0000	w	m
## 388	25.25000	51.25000	101.25000	133.0000	w	m
## 389	26.00000	44.00000	100.00000	144.7500	l	m
## 390	26.30000	54.25000	110.50000	155.5000	w	m
## 391	26.05000	50.75000	113.00000	146.5000	w	m
## 392	26.60000	51.50000	107.25000	144.0000	w	m
## 393	26.98750	48.26000	97.15500	137.1600	w	m
## 394	22.86000	44.45000	88.90000	124.4600	w	f
## 395	21.59000	40.64000	83.18500	123.8250	a	o
## 396	25.50000	51.00000	106.50000	137.5000	a	m
## 397	27.00000	46.00000	103.00000	144.0000	w	m
## 398	26.00000	45.00000	101.00000	145.0000	w	m
## 399	26.00000	46.00000	105.50000	141.0000	w	m
## 400	24.00000	45.00000	99.00000	143.5000	w	f
## 401	27.00000	49.00000	101.00000	147.0000	w	m
## 402	23.25000	40.50000	95.50000	122.0000	nat	f

## 403	28.00000	47.00000	95.75000	146.0000	w	m
## 404	23.75000	43.00000	99.00000	127.0000	w	f
## 405	26.50000	53.50000	99.25000	137.0000	ji	m
## 406	23.00000	43.00000	96.00000	120.0000	w	f
## 407	22.65000	41.85000	91.25000	123.3500	w	f
## 408	21.85000	42.25000	99.85000	127.2000	w	f
## 409	22.15000	52.05000	92.05000	126.3000	w	f
## 410	38.75000	24.55000	96.75000	122.8000	w	f
## 411	28.90000	57.60000	101.10000	144.5000	w	m
## 412	21.75000	40.95000	98.60000	124.9000	w	f
## 413	24.15000	49.90000	90.65000	130.3000	w	f
## 414	25.65000	50.80000	87.80000	131.7500	w	f
## 415	25.25000	54.35000	96.70000	139.9500	w	f
## 416	24.90000	47.80000	91.70000	131.0500	w	f
## 417	28.75000	46.25000	112.50000	144.7500	w	m
## 418	22.25000	45.61000	92.75000	140.5000	w	m
## 419	24.38400	40.88250	93.24000	125.2300	a	f
## 420	21.59000	41.27500	94.79000	123.1900	a	f
## 421	27.62250	45.08500	110.49000	134.6200	w	m
## 422	23.97125	40.64000	99.06000	121.2850	w	f
## 423	21.11375	36.19500	78.74000	99.3775	w	m
## 424	25.40000	41.91000	101.28250	133.9850	w	m
## 425	24.13000	43.18000	95.88500	133.9850	w	f
## 426	21.59000	39.37000	95.25000	126.6825	w	f
##	new.units	my.eye	my.writing	my.swinging	my.eye.color	height/height
## 1	cm	b	r	r	bl	1
## 2	cm	b	r	r	br	1
## 3	cm	b	l	l	br	1
## 4	cm	b	r	r	bl	1
## 5	cm	l	l	l	bl	1
## 6	cm	b	r	r	ha	1
## 7	cm	b	r	r	bl	1
## 8	cm	b	r	r	br	1
## 9	cm	r	r	r	br	1
## 10	cm	b	r	r	bl	1
## 21	cm	r	r	r	bl	1
## 22	cm	r	r	l	bl	1
## 23	cm	r	r	l	bl	1
## 24	cm	r	r	r	br	1
## 25	cm	l	l	l	gr	1
## 26	cm	r	r	l	br	1
## 27	cm	l	r	l	bl	1
## 28	cm	r	l	l	bl	1
## 29	cm	l	r	l	bl	1
## 30	cm	r	r	l	bl	1
## 31	cm	r	r	r	bl-gr	1
## 32	cm	r	l	l	bl	1
## 33	cm	l	r	r	br	1
## 34	cm	l	r	r	ha	1
## 35	cm	r	l	l	gr	1
## 36	cm	r	r	l	ha	1
## 37	cm	l	r	r	br	1
## 38	cm	l	r	r	br	1
## 39	cm	r	r	r	bl	1

## 40	cm	r	r	r	gr	1
## 41	cm	l	r	r	bl	1
## 75	cm	r	r	l	bl	1
## 76	cm	r	r	r	br	1
## 77	cm	r	r	r	br	1
## 78	cm	r	r	r	gr	1
## 79	cm	r	r	r	br	1
## 80	cm	r	r	r	br	1
## 81	cm	r	r	r	br	1
## 82	cm	b	l	l	bl	1
## 83	cm	r	r	l	br	1
## 84	cm	r	r	r	br	1
## 85	cm	l	r	r	ha	1
## 86	cm	r	r	r	bl	1
## 87	cm	<NA>	r	r	<NA>	1
## 88	cm	r	r	r	br	1
## 89	cm	r	r	r	bl	1
## 90	cm	r	r	r	ha	1
## 91	cm	l	r	r	gr	1
## 92	cm	l	l	r	gr	1
## 93	cm	r	r	r	gr	1
## 94	cm	l	r	r	bl	1
## 95	cm	r	r	r	bl	1
## 96	cm	l	r	r	bl	1
## 97	cm	l	r	r	bl	1
## 98	cm	r	r	r	bl	1
## 99	cm	r	r	r	bl	1
## 100	cm	<NA>	b	b	bl	1
## 101	cm	l	r	r	ha	1
## 102	cm	r	l	l	bl	1
## 103	cm	l	r	r	bl	1
## 104	cm	l	l	r	br	1
## 105	cm	r	r	r	bl	1
## 106	cm	r	r	r	bl	1
## 107	cm	l	r	r	bl	1
## 108	cm	r	r	r	gr	1
## 109	cm	r	r	r	br	1
## 110	cm	r	r	r	bl	NA
## 111	cm	r	r	r	br	NA
## 112	cm	l	r	r	br	NA
## 113	cm	r	r	r	br	NA
## 114	cm	r	r	r	br	NA
## 115	cm	r	r	r	gr	NA
## 116	cm	l	r	r	br	NA
## 117	cm	l	r	l	br	1
## 118	cm	r	l	r	br	1
## 119	cm	r	l	r	bl	1
## 120	cm	l	r	l	br	1
## 121	cm	l	r	l	br	1
## 122	cm	l	r	l	br	1
## 123	cm	r	l	r	br	NA
## 124	cm	l	l	r	br	NA
## 125	cm	r	l	l	br	1
## 126	cm	l	r	l	br	1

## 127	cm	l	r	r	bl	1
## 128	cm	l	r	r	bl	1
## 129	cm	r	l	r	bl	1
## 130	cm	r	r	r	bl	1
## 131	cm	l	r	r	bl	1
## 132	cm	r	r	r	bl	1
## 133	cm	r	r	r	ha	1
## 134	cm	r	r	r	br	1
## 135	cm	r	r	r	br	1
## 136	cm	r	r	r	gr	1
## 227	cm	l	r	r	ha	1
## 228	cm	l	r	r	br	1
## 229	cm	r	r	r	br	1
## 230	cm	r	r	r	br	1
## 231	cm	l	r	r	bl	1
## 232	cm	r	r	r	ha	1
## 233	cm	r	r	r	br	1
## 234	cm	r	r	r	bl	1
## 235	cm	<NA>	b	b	br	1
## 236	cm	l	l	l	bl	1
## 237	cm	r	r	r	br	1
## 238	cm	r	r	r	br	1
## 239	cm	r	r	r	br	1
## 240	cm	r	r	r	ha	1
## 241	cm	r	r	r	br	1
## 242	cm	r	r	r	br	1
## 243	cm	r	r	r	br	1
## 244	cm	r	r	r	br	1
## 245	cm	l	r	r	ha	1
## 246	cm	r	r	r	b	1
## 277	cm	l	r	r	ha	1
## 278	cm	l	r	r	ha	1
## 279	cm	r	r	r	ha	1
## 280	cm	r	r	r	ha	1
## 281	cm	r	r	r	bl-gr	1
## 282	cm	l	r	l	ha	1
## 283	cm	l	l	r	br	1
## 284	cm	l	r	r	bl	1
## 285	cm	l	r	r	br	1
## 286	cm	r	r	r	ha	1
## 297	cm	r	r	r	bl	1
## 298	cm	r	r	r	br	1
## 299	cm	r	r	r	bl	1
## 300	cm	r	r	r	bl	1
## 301	cm	r	r	r	br	1
## 302	cm	r	r	r	ha	1
## 303	cm	r	r	r	ha	1
## 304	cm	r	r	r	ha	1
## 305	cm	r	r	r	ha	1
## 306	cm	r	r	r	bl	1
## 307	cm	r	r	r	br	1
## 308	cm	r	r	r	br	1
## 309	cm	r	r	l	br	1
## 310	cm	r	r	l	br	1

## 311	cm	r	r	r	br	1
## 312	cm	r	r	r	b	1
## 313	cm	b	r	l	br	1
## 314	cm	r	r	l	br	1
## 315	cm	b	r	r	b	1
## 316	cm	b	r	r	br	1
## 317	cm	r	r	r	br	1
## 318	cm	l	l	l	br	1
## 319	cm	r	r	r	bl	1
## 320	cm	r	r	r	bl	1
## 321	cm	r	r	r	ha	1
## 322	cm	r	r	r	bl	1
## 323	cm	r	r	r	bl	1
## 324	cm	r	r	r	br	1
## 325	cm	r	r	r	bl	1
## 326	cm	r	r	r	ha	1
## 327	cm	r	r	r	br	1
## 328	cm	r	r	r	br	1
## 329	cm	l	r	r	bl	1
## 330	cm	r	r	r	gr	1
## 331	cm	l	r	r	br	1
## 332	cm	l	r	r	br	1
## 333	cm	r	r	r	br	1
## 334	cm	l	l	r	br	1
## 335	cm	l	l	l	ha	1
## 337	cm	b	r	l	br	1
## 338	cm	b	r	l	br	1
## 339	cm	l	r	l	br	1
## 340	cm	l	l	r	br	1
## 341	cm	r	r	l	br	1
## 342	cm	r	r	l	bl	1
## 343	cm	b	r	l	br	1
## 344	cm	b	l	r	br	1
## 345	cm	b	r	l	br	1
## 346	cm	r	r	l	br	1
## 347	cm	r	r	r	br	1
## 348	cm	b	r	r	br	1
## 350	cm	r	r	r	br	1
## 351	cm	r	r	r	bl	1
## 352	cm	r	r	r	br	1
## 353	cm	r	r	r	bl	1
## 354	cm	r	r	r	bl	1
## 355	cm	r	r	r	br	1
## 356	cm	r	r	r	br	1
## 357	cm	r	r	r	br	1
## 358	cm	r	r	r	gr-g	1
## 359	cm	r	r	r	g	1
## 360	cm	r	r	r	bl-gr	1
## 361	cm	r	r	r	bl-gr	1
## 362	cm	l	r	r	bl-g	1
## 363	cm	l	r	r	br	1
## 364	cm	r	r	r	br	1
## 365	cm	l	r	r	bl	1
## 366	cm	r	r	r	br	1

## 367	cm	b	r	r	br	1
## 368	cm	b	b	r	br	1
## 369	cm	l	r	r	br	1
## 370	cm	r	r	r	gr	1
## 371	cm	b	r	r	br	1
## 372	cm	r	r	r	bl	1
## 373	cm	b	r	r	br	1
## 374	cm	l	r	r	br	1
## 375	cm	b	r	r	br	1
## 376	cm	r	r	r	ha	1
## 377	cm	r	r	r	br	1
## 378	cm	l	r	r	br	1
## 379	cm	l	l	l	br	1
## 380	cm	l	r	r	br	1
## 381	cm	r	l	l	br	1
## 382	cm	l	r	r	br	1
## 383	cm	l	l	l	br	1
## 384	cm	r	r	r	br	1
## 385	cm	l	l	l	bl	1
## 386	cm	l	r	r	br	1
## 387	cm	l	r	r	bl	1
## 388	cm	l	r	r	bl	1
## 389	cm	<NA>	l	l	br	1
## 390	cm	r	r	r	g	1
## 391	cm	r	r	r	bl	1
## 392	cm	r	r	r	br	1
## 393	cm	<NA>	r	r	bl	1
## 394	cm	r	r	l	gr	1
## 395	cm	r	r	r	br	1
## 396	cm	r	l	r	br	1
## 397	cm	r	r	r	ha	1
## 398	cm	r	r	r	bl	1
## 399	cm	r	r	r	bl	1
## 400	cm	r	r	r	ha	1
## 401	cm	r	r	r	bl	1
## 402	cm	r	r	r	bl	1
## 403	cm	r	r	r	br	1
## 404	cm	r	r	r	br	1
## 405	cm	r	l	r	br	1
## 406	cm	r	r	r	br	1
## 407	cm	r	l	l	bl	1
## 408	cm	l	r	r	bl	1
## 409	cm	l	r	r	br	1
## 410	cm	r	l	r	bl	1
## 411	cm	l	r	r	bl	1
## 412	cm	r	r	r	br	1
## 413	cm	l	r	r	gr	1
## 414	cm	l	r	r	br	1
## 415	cm	r	r	r	bl	1
## 416	cm	r	r	l	ha	1
## 417	cm	r	l	l	gr	1
## 418	cm	r	r	b	bl	1
## 419	cm	r	r	r	br	1
## 420	cm	l	l	l	br	1

## 421	cm	r	r	r	bl	1
## 422	cm	r	r	r	bl	1
## 423	cm	r	r	r	bl	1
## 424	cm	r	r	r	gr	1
## 425	cm	r	r	r	bl	1
## 426	cm	r	r	r	bl	1
##	head.height/height	head.c/height	arm.span/height	floor.navel/height		
## 1	0.1512163	NA	0.9743590	NA		
## 2	0.1270115	NA	0.9597701	NA		
## 3	0.1071429	NA	0.9345238	NA		
## 4	0.1402439	NA	0.9451220	NA		
## 5	0.1436464	NA	1.0110497	NA		
## 6	0.1440461	NA	1.0723431	NA		
## 7	0.1458198	NA	0.9727803	NA		
## 8	0.1490603	NA	0.9786131	NA		
## 9	0.1158078	NA	0.8917197	NA		
## 10	0.1402439	NA	0.9408537	NA		
## 21	0.1296552	0.3813793	0.9772414	0.5958621		
## 22	0.1342541	0.3232044	0.9723757	0.6215470		
## 23	0.1199214	0.3584535	1.0458716	0.5982962		
## 24	0.1238938	0.3303835	0.9734513	0.6218289		
## 25	0.1158278	0.3468769	0.9211643	0.5821710		
## 26	0.1445312	0.4166667	1.0488281	0.6236979		
## 27	0.1152981	0.3335208	1.0281215	0.5849269		
## 28	0.1319073	0.3481878	0.9845514	0.6060606		
## 29	0.1322751	0.3392122	0.9911817	0.5937684		
## 30	0.1312665	0.3634565	1.0290237	0.6200528		
## 31	0.1326165	0.3189964	1.0394265	0.5913978		
## 32	0.1452514	0.4357542	0.9636872	0.5782123		
## 33	0.1465969	0.4031414	0.9685864	0.5785340		
## 34	0.1293706	0.3286713	1.0034965	0.5961538		
## 35	0.1417323	0.3385827	0.9960630	0.6062992		
## 36	0.1333333	0.4444444	1.0138889	0.5694444		
## 37	0.1226994	0.3578732	0.9959100	0.5889571		
## 38	0.1314286	0.3371429	1.0038095	0.5600000		
## 39	0.1411290	0.3548387	1.0000000	0.5967742		
## 40	0.1294326	0.3244681	1.0230496	0.5780142		
## 41	0.1405622	0.3594378	1.0160643	0.6064257		
## 75	0.1179775	0.3314607	0.9887640	0.5533708		
## 76	0.1118881	0.3193657	1.2027972	0.6001872		
## 77	0.1117446	0.3192702	1.2029647	0.6003421		
## 78	0.1118012	0.3167702	1.1987578	0.5993789		
## 79	0.1121212	0.3212121	1.2030303	0.6000000		
## 80	0.1129032	0.3172043	1.2043011	0.6021505		
## 81	0.1114130	0.3206522	1.2010870	0.5978261		
## 82	0.1132075	0.3270440	1.2264151	0.6100629		
## 83	0.1132075	0.3180593	1.2021563	0.5983827		
## 84	0.1135135	0.3297297	1.2108108	0.6000000		
## 85	0.1256831	0.3169399	1.0000000	0.5956284		
## 86	0.1231231	0.3213213	0.9849850	0.5945946		
## 87	0.1460317	0.3492063	1.0158730	0.5714286		
## 88	0.1282799	0.3090379	0.3790087	0.6239067		
## 89	0.1292135	0.3314607	0.9606742	0.5674157		
## 90	0.1190476	0.3333333	0.9880952	0.5892857		

## 91	0.1588235	0.3294118	1.0235294	0.5823529
## 92	0.1348315	0.3258427	1.0140449	0.5842697
## 93	0.1366120	0.1256831	0.8852459	0.5901639
## 94	0.1542857	0.3200000	0.4285714	0.5885714
## 95	0.1304348	0.3229814	0.3819876	0.6024845
## 96	0.1297297	0.3081081	1.0378378	0.5891892
## 97	0.1376812	0.3362319	1.0253623	0.5579710
## 98	NA	0.3571429	0.9841270	NA
## 99	NA	0.4823529	0.9647059	NA
## 100	NA	0.5820896	0.9402985	NA
## 101	NA	0.3492063	1.0000000	NA
## 102	NA	0.3507246	0.9565217	NA
## 103	NA	0.3538462	1.0076923	NA
## 104	NA	0.3461538	0.9807692	NA
## 105	NA	0.3467742	1.0322581	NA
## 106	NA	0.3229167	1.0138889	NA
## 107	0.1340580	0.3333333	1.0326087	0.5652174
## 108	0.1307692	0.3230769	0.9846154	0.5572380
## 109	0.1392857	0.3285714	1.0571429	0.5511811
## 110	NA	NA	NA	NA
## 111	NA	NA	NA	NA
## 112	NA	NA	NA	NA
## 113	NA	NA	NA	NA
## 114	NA	NA	NA	NA
## 115	NA	NA	NA	NA
## 116	NA	NA	NA	NA
## 117	0.1250000	NA	1.0472973	NA
## 118	0.1259843	NA	0.9842520	NA
## 119	0.1465517	NA	1.0215517	NA
## 120	0.1511111	NA	1.0311111	NA
## 121	0.1626794	NA	1.0143541	NA
## 122	0.1370968	NA	0.8467742	NA
## 123	NA	NA	NA	NA
## 124	NA	NA	NA	NA
## 125	0.1551724	NA	NA	NA
## 126	0.1191136	0.3324100	0.9916898	0.5955679
## 127	0.1408763	0.3100388	0.9295618	0.7820300
## 128	0.1398046	0.3492063	0.9004884	0.7521368
## 129	0.1336661	0.3311148	0.9068220	0.7748197
## 130	0.1440252	0.3433962	0.8949686	0.7748428
## 131	0.1403315	0.3331492	0.9116022	0.8348066
## 132	0.1263158	0.3052632	0.9105263	0.7526316
## 133	0.1397174	0.2956567	0.9183673	0.7875458
## 134	0.1638889	0.3277778	0.9500000	0.7777778
## 135	0.1420118	0.3431953	0.9349112	0.7840237
## 136	0.1629213	0.3202247	0.9438202	0.7106742
## 227	0.1533101	0.3902439	1.1498258	0.7212544
## 228	0.1355932	0.3220339	0.9887006	0.6045198
## 229	0.1228571	0.3400000	1.0000000	0.5942857
## 230	0.1228571	0.3171429	0.9942857	0.5914286
## 231	0.1242938	0.3276836	1.0225989	0.6242938
## 232	0.1204819	0.3403614	0.9638554	0.6144578
## 233	0.1264368	0.3304598	1.0057471	0.5862069
## 234	0.1256831	0.3142077	0.9398907	0.5956284

## 235	0.2150538	0.5483871	0.9731183	0.5268817
## 236	0.1292135	0.3342697	0.9943820	0.5870787
## 237	0.1356448	0.3539999	1.0189903	0.6252895
## 238	0.1393095	0.3331314	1.0692308	0.6299213
## 239	0.1270003	0.3397257	1.0483871	0.5873762
## 240	0.1345741	0.3493200	1.0327273	0.6012885
## 241	0.1317365	0.3293413	1.0239521	0.6287425
## 242	0.1411765	0.3352941	1.0294118	0.6235294
## 243	0.1363636	0.3649351	1.0064935	0.6103896
## 244	0.1431639	0.3489621	1.0606061	0.5965163
## 245	0.1351351	0.3189189	1.0162162	0.5837838
## 246	0.1279070	0.3372093	0.9883721	0.5174419
## 277	0.1468144	0.3351801	1.0055402	0.5734072
## 278	0.1250000	0.3468750	0.9812500	NA
## 279	0.1371429	0.3314286	1.0285714	NA
## 280	0.1277778	0.3250000	1.0277778	NA
## 281	0.1550633	0.3512658	1.0221519	0.6202532
## 282	0.1369863	0.3068493	1.0191781	0.6328767
## 283	0.1547619	0.3392857	0.9940476	0.5863095
## 284	0.1408840	0.3370166	1.0082873	0.5690608
## 285	0.1419355	0.3677419	0.9935484	NA
## 286	0.1363636	0.3323864	1.0056818	NA
## 297	0.1300813	0.3455285	0.9796748	0.5691057
## 298	0.1321429	0.3214286	1.0571429	0.5857143
## 299	0.1377871	0.3423800	0.9853862	0.5720251
## 300	0.1184324	0.3050531	1.0030864	0.5756532
## 301	0.1176471	0.3294118	0.9921569	0.5882353
## 302	0.1250000	0.3194444	1.0208333	0.6180556
## 303	0.1322222	0.3253968	0.9880952	0.5476190
## 304	0.1222642	0.3018868	1.0226415	0.6301887
## 305	0.1081081	0.3108108	1.0168919	0.5912162
## 306	0.1269231	0.3538462	1.0076923	0.6115385
## 307	0.1271676	0.3150289	1.0000000	0.5780347
## 308	0.1077844	0.3173653	1.0000000	0.6107784
## 309	0.1210191	0.3407643	1.0127389	0.5987261
## 310	0.1518987	0.3354430	0.9240506	0.5886076
## 311	0.1388889	0.3456790	1.0061728	0.6049383
## 312	0.1666667	0.3154762	1.0535714	0.5773810
## 313	0.1324503	0.3708609	1.0927152	0.6026490
## 314	0.1946309	0.3624161	0.9932886	0.5939597
## 315	0.1446541	0.3396226	1.0503145	0.5660377
## 316	0.1388889	0.3580247	0.9907407	0.5648148
## 317	0.1441606	0.3467153	1.0437956	0.5985401
## 318	0.1082090	0.3283582	1.0149254	0.5970149
## 319	0.1428571	0.3214286	1.0285714	0.6071429
## 320	0.1583333	0.3666667	1.0000000	0.5708333
## 321	0.1142857	0.3178571	1.0285714	0.6035714
## 322	0.1215686	0.3411765	0.9764706	0.5254902
## 323	0.1328125	0.3515625	0.9921875	0.5859375
## 324	0.1126761	0.3239437	1.0140845	0.6056338
## 325	0.1185771	0.3478261	0.9486166	0.6086957
## 326	0.1137931	0.3137931	1.0137931	0.5862069
## 327	0.1392405	0.3386076	1.0094937	0.5791139
## 328	0.1395349	0.3255814	0.9767442	0.5726744

## 329	0.1167979	0.3005249	1.0131234	0.5931759
## 330	0.1192788	0.3079057	1.0291262	0.6158114
## 331	0.1297468	0.3607595	1.0506329	0.5696203
## 332	0.1235955	0.3033708	0.9775281	0.6039326
## 333	0.1156069	0.1242775	1.0346821	0.6011561
## 334	0.1249231	0.3433846	1.0153846	0.5938462
## 335	0.1190476	0.3273810	0.9821429	0.5773810
## 337	0.1301775	0.3431953	1.0236686	0.5976331
## 338	0.1360759	0.3607595	1.0253165	0.5822785
## 339	0.1678832	0.3941606	1.0145985	0.6204380
## 340	0.1481481	0.3456790	1.0123457	0.5740741
## 341	0.1437500	0.3375000	0.9937500	0.5937500
## 342	0.1345029	0.3333333	1.0029240	0.5906433
## 343	0.1428571	0.3928571	1.0214286	0.5928571
## 344	0.1525974	0.3701299	1.0389610	0.6233766
## 345	0.1621622	0.3851351	1.0000000	0.6283784
## 346	0.1554054	0.3648649	0.9932432	0.6216216
## 347	0.1284722	0.3125000	1.0555556	0.5902778
## 348	0.2238806	0.3544776	0.9328358	0.5522388
## 350	0.1164483	0.3173217	1.0043668	0.6040757
## 351	0.1079137	0.3136691	1.0460432	0.6187050
## 352	0.2031250	0.3593750	1.0234375	0.6093750
## 353	0.1182796	0.3118280	0.9928315	0.6021505
## 354	0.1343284	0.3432836	1.0074627	0.5839552
## 355	0.1185637	0.3252033	1.0216802	0.6138211
## 356	0.1250000	0.3272059	1.0018382	0.6029412
## 357	0.1195900	0.3063781	1.0034169	0.6207289
## 358	0.1139601	0.3133903	1.0142450	0.6096866
## 359	0.1164773	0.3181818	1.0113636	0.6193182
## 360	0.1107595	0.3544304	0.9664557	0.5949367
## 361	0.1214623	0.3419811	0.9610849	0.5896226
## 362	0.1265823	0.3375527	1.0036166	0.5726341
## 363	0.1369048	0.3392857	1.0238095	0.5654762
## 364	0.1246291	0.3293769	1.0089021	0.6142433
## 365	0.1155914	0.3198925	1.0150538	0.6155914
## 366	0.1088235	0.3294118	1.0352941	0.6117647
## 367	0.1272943	0.3285968	1.0301954	0.5950266
## 368	0.1259669	0.3093923	1.0524862	0.5977901
## 369	0.1375000	0.3812500	0.9843750	0.5875000
## 370	0.1445087	0.3375723	1.0520231	0.6011561
## 371	0.1349693	0.3374233	1.0429448	0.5950920
## 372	0.1310680	0.3128371	0.9795038	0.5889968
## 373	0.1288344	0.3312883	0.9036810	0.6233129
## 374	0.1377246	0.3323353	1.0239521	0.5988024
## 375	0.1848539	0.3434705	1.0071556	0.5849732
## 376	0.1788909	0.3255814	1.0375671	0.6362552
## 377	0.1190476	0.3492063	1.0476190	0.6150794
## 378	0.1282051	0.3931624	1.0141880	0.6068376
## 379	0.1115385	0.3269231	1.0000000	0.6153846
## 380	0.1014493	0.3231884	0.9710145	0.5942029
## 381	0.1066176	0.2573529	1.0036765	0.5367647
## 382	0.1250000	0.2977941	1.0294118	0.5183824
## 383	0.1214286	0.2714286	1.0428571	0.4892857
## 384	0.1291667	0.3333333	1.0166667	0.6000000

## 385	0.1487603	0.3801653	1.0247934	0.6280992
## 386	0.1174242	0.3181818	1.0606061	0.5909091
## 387	0.1492537	0.3462687	0.9432836	0.6089552
## 388	0.1304348	0.3518841	1.0115942	0.5913043
## 389	0.1260274	0.3424658	1.0054795	0.5808219
## 390	0.1164021	0.3068783	0.9830688	0.6031746
## 391	0.1291209	0.3241758	1.0027473	0.6263736
## 392	0.1218837	0.3490305	0.9833795	0.6149584
## 393	0.1328413	0.3468635	0.9815498	0.5682657
## 394	0.1290323	0.3467742	0.9677419	0.5887097
## 395	0.1393443	0.3688525	0.9836066	0.5491803
## 396	0.1352113	0.3408451	1.0225352	0.6140845
## 397	0.1243243	0.3189189	1.0594595	NA
## 398	0.1196809	0.3138298	0.9946809	NA
## 399	0.1304348	0.3179348	0.9945652	NA
## 400	0.1271676	0.3294798	1.0000000	NA
## 401	0.1348315	0.3370787	1.0280899	NA
## 402	0.1468750	0.3437500	1.0312500	NA
## 403	0.1300813	0.3035230	1.0325203	NA
## 404	0.1393939	0.3393939	1.0151515	NA
## 405	0.1191136	0.3240997	1.0277008	NA
## 406	0.1455696	0.3544304	1.0316456	NA
## 407	0.1269841	0.1660562	1.0463980	0.6013431
## 408	0.1252983	0.3442721	0.9892601	0.6062053
## 409	0.1246255	0.3421210	0.9420371	0.6009587
## 410	0.1347690	0.3564295	1.0081149	0.5786517
## 411	0.1124604	0.3384372	0.9244984	0.5623020
## 412	0.1309596	0.3343392	0.9873265	0.6022933
## 413	0.1206483	0.3553421	1.0186074	0.6146459
## 414	0.1136878	0.3190045	0.9915158	0.5955882
## 415	0.1135105	0.3289037	0.9390919	0.5836102
## 416	0.1109175	0.3333333	1.0069686	0.6132404
## 417	0.1303191	0.3111702	0.8324468	0.6050532
## 418	0.1492537	0.3395522	1.0077565	0.5905512
## 419	0.1352459	0.3565574	1.0000000	0.5655738
## 420	0.1274131	0.3411060	0.9806950	0.6171526
## 421	0.1285714	0.3290214	1.0428571	0.6228909
## 422	0.1160000	0.3181102	0.9760000	0.6047244
## 423	0.1428571	0.3655793	1.0000000	0.6149231
## 424	0.1223022	0.3299722	1.0215827	0.6089616
## 425	0.1185185	0.3237095	0.9925926	0.6649169
## 426	0.1250000	0.3260335	1.0156250	0.6059301
##	hand.length/height	hand.width/height	hand.elbow/height	elbow.armpit/height
## 1	0.11143984	0.11932939	0.2294543	0.14792899
## 2	0.10660920	0.11321839	0.2617816	0.14942529
## 3	0.08928571	0.08333333	0.3095238	0.19642857
## 4	0.10365854	0.11585366	0.2378049	0.17682927
## 5	0.11049724	0.13259669	0.2375691	0.15469613
## 6	0.11747759	0.12996159	0.2410371	0.20166453
## 7	0.11049903	0.12184057	0.2362281	0.16202203
## 8	0.11017498	0.11989631	0.2333117	0.15878159
## 9	0.10422698	0.08106543	0.2229299	0.11580776
## 10	0.10365854	0.11585366	0.2359756	0.16890244
## 21	0.11724138	0.11241379	0.2758621	0.20689655

## 22	0.09889503	0.10276243	0.2544199	0.31491713
## 23	0.11271298	0.11500655	0.2490170	0.14089122
## 24	0.10825959	0.11533923	0.2616519	0.16519174
## 25	0.10430564	0.10733778	0.2577320	0.14099454
## 26	0.11848958	0.12792969	0.2812500	0.19303385
## 27	0.10461192	0.12373453	0.2654668	0.18222722
## 28	0.10219846	0.11229947	0.2620321	0.16636958
## 29	0.10082305	0.11258083	0.2616108	0.14109347
## 30	0.10751979	0.11279683	0.2661609	0.16160950
## 31	0.10842294	0.12275986	0.2724014	0.13978495
## 32	0.11033520	0.12290503	0.2486034	0.15921788
## 33	0.10863874	0.12434555	0.2643979	0.17801047
## 34	0.10926573	0.12587413	0.2692308	0.17482517
## 35	0.10826772	0.12106299	0.2578740	0.18503937
## 36	0.11111111	0.12083333	0.2694444	0.19722222
## 37	0.11758691	0.11809816	0.2627812	0.18353783
## 38	0.10904762	0.12571429	0.2604762	0.18761905
## 39	0.10383065	0.12147177	0.2721774	0.18750000
## 40	0.11347518	0.11879433	0.2721631	0.17375887
## 41	0.10943775	0.12951807	0.2730924	0.18674699
## 75	0.10814607	0.12219101	0.2556180	0.17134831
## 76	0.09790210	0.12587413	0.2545455	0.16243599
## 77	0.09720639	0.12599772	0.2545610	0.15963512
## 78	0.09937888	0.12422360	0.2546584	0.16459627
## 79	0.09696970	0.12727273	0.2545455	0.16060606
## 80	0.09677419	0.12365591	0.2526882	0.16397849
## 81	0.09782609	0.12500000	0.2554348	0.16032609
## 82	0.10062893	0.12578616	0.2578616	0.16666667
## 83	0.09703504	0.12398922	0.2533693	0.16442049
## 84	0.09729730	0.12432432	0.2594595	0.16486486
## 85	0.10655738	0.11612022	0.2213115	0.13934426
## 86	0.10810811	0.11411411	0.2432432	0.15315315
## 87	0.11428571	0.11428571	0.2507937	0.12380952
## 88	0.04664723	0.05830904	0.1749271	0.13411079
## 89	0.11235955	0.12780899	0.1320225	0.08988764
## 90	0.11607143	0.12500000	0.2440476	0.14285714
## 91	0.10441176	0.12058824	0.2647059	0.12352941
## 92	0.10393258	0.12078652	0.2485955	0.16292135
## 93	0.11475410	0.05464481	0.2568306	0.38797814
## 94	0.09428571	0.06142857	0.2485714	0.16571429
## 95	0.09937888	0.06211180	0.2360248	0.14285714
## 96	0.11351351	0.05945946	0.2405405	0.16216216
## 97	0.11123188	0.11992754	0.1641304	0.17391304
## 98	0.10714286	0.11904762	NaN	NaN
## 99	0.10882353	0.13235294	NaN	NaN
## 100	0.10820896	0.13432836	NaN	NaN
## 101	0.10317460	0.11507937	NaN	NaN
## 102	0.10144928	0.11956522	NaN	NaN
## 103	0.10384615	0.12307692	NaN	NaN
## 104	0.10769231	0.12884615	NaN	NaN
## 105	0.10483871	0.11895161	NaN	NaN
## 106	0.10416667	0.11631944	NaN	NaN
## 107	0.10769714	0.11511469	0.2610122	0.39130435
## 108	0.10000000	0.07692308	0.2442308	0.16346154

## 109	0.11071429	0.06785714	0.2606862	0.14464286
## 110	NA	NA	NaN	NaN
## 111	NA	NA	NaN	NaN
## 112	NA	NA	NaN	NaN
## 113	NA	NA	NaN	NaN
## 114	NA	NA	NaN	NaN
## 115	NA	NA	NaN	NaN
## 116	NA	NA	NaN	NaN
## 117	0.10810811	0.12837838	0.2398649	0.17567568
## 118	0.11023622	0.12598425	0.2362205	0.16535433
## 119	0.11206897	0.12931034	0.2543103	0.15517241
## 120	0.11111111	0.12000000	0.2400000	0.12000000
## 121	0.10526316	0.11961722	0.2392344	0.17224880
## 122	0.09274194	0.10080645	0.1935484	0.14516129
## 123	NA	NA	NA	NaN
## 124	NA	NA	NA	NaN
## 125	0.09482759	0.10351616	0.2413793	0.13793103
## 126	0.10387812	0.11772853	0.2493075	0.14404432
## 127	0.10260677	NaN	0.2659456	0.16028841
## 128	0.10866911	NaN	0.2637363	0.14560440
## 129	0.10593455	NaN	0.2606767	0.14614531
## 130	0.10754717	NaN	0.2672956	0.14402516
## 131	0.10883978	NaN	0.2701657	0.14033149
## 132	0.11315789	NaN	0.2526316	0.15263158
## 133	0.10308739	NaN	0.2642595	0.17111460
## 134	0.10416667	NaN	0.2902778	0.18055556
## 135	0.10650888	NaN	0.2736686	0.15384615
## 136	0.09831461	NaN	0.2471910	0.16292135
## 227	0.11846690	0.13240418	0.2682927	0.18466899
## 228	0.10734463	0.11723164	0.2288136	0.12570621
## 229	0.11000000	0.11000000	0.2300000	0.13571429
## 230	0.10857143	0.10714286	0.2371429	0.14571429
## 231	0.11440678	0.13559322	0.2782486	0.16101695
## 232	0.11295181	0.11746988	0.2424699	0.19427711
## 233	0.10919540	0.11206897	0.2514368	0.13074713
## 234	0.10382514	0.11065574	0.2377049	0.11475410
## 235	0.13172043	0.14247312	0.2715054	0.10752688
## 236	0.11235955	0.11938202	0.2542135	0.13202247
## 237	0.10256071	0.12241117	0.2812148	0.15549527
## 238	0.11356753	0.11811024	0.2861902	0.14839491
## 239	0.10477521	0.13017526	0.2730505	0.16192532
## 240	0.11166786	0.13457409	0.2834646	0.13457409
## 241	0.11976048	0.11976048	0.2694611	0.18562874
## 242	0.12352941	0.12941176	0.2705882	0.18235294
## 243	0.10779221	0.11038961	0.2574675	0.13668831
## 244	0.10737294	0.11930327	0.2714149	0.16105941
## 245	0.10810811	0.12837838	0.2810811	0.14594595
## 246	0.09883721	0.04069767	0.2209302	0.10465116
## 277	0.11911357	0.13434903	0.2603878	0.15512465
## 278	0.11250000	0.12812500	0.2468750	0.17500000
## 279	0.13714286	0.15142857	0.2457143	0.16000000
## 280	0.11388889	0.13888889	0.2472222	0.16944444
## 281	0.10443038	0.12658228	0.2468354	0.15189873
## 282	0.10410959	0.11506849	0.2493151	0.13972603

## 283	0.11309524	0.12946429	0.2678571	0.14285714
## 284	0.12154696	0.13812155	0.2513812	0.15745856
## 285	0.11290323	0.12419355	0.2387097	0.16129032
## 286	0.12500000	0.13352273	0.2556818	0.15198864
## 297	0.10569106	0.10772358	0.2398374	0.15650407
## 298	0.10592857	0.11428571	0.2642857	0.18807143
## 299	0.12484342	0.12793319	0.2713987	0.16492693
## 300	0.11843239	0.12991674	0.2614844	0.19078381
## 301	0.11372549	0.12941176	0.2725490	0.20000000
## 302	0.10416667	0.10937500	0.2621528	0.18750000
## 303	0.11111111	0.11571429	0.2547619	0.14484127
## 304	0.10566038	0.11724528	0.2558491	0.16981132
## 305	0.10641892	0.11486486	0.2719595	0.20270270
## 306	0.10769231	0.11538462	0.2423077	0.15000000
## 307	0.10260116	0.11560694	0.2485549	0.12716763
## 308	0.10778443	0.11826347	0.2514970	0.13473054
## 309	0.10509554	0.11783439	0.2484076	0.18152866
## 310	0.10759494	0.10443038	0.2500000	0.12658228
## 311	0.11419753	0.12037037	0.2592593	0.14814815
## 312	0.11309524	0.12053571	0.2604167	0.12797619
## 313	0.11920530	0.12417219	0.2682119	0.13907285
## 314	0.11073826	0.13087248	0.2533557	0.13087248
## 315	0.10534591	0.12421384	0.2704403	0.13522013
## 316	0.10956790	0.12037037	0.1450617	0.12654321
## 317	0.10857664	0.12500000	0.2636861	0.18978102
## 318	0.09701493	0.11940299	0.2350746	0.14552239
## 319	0.10000000	0.11250000	0.2428571	0.15714286
## 320	0.10416667	0.11666667	0.2458333	0.13333333
## 321	1.25535714	0.10178571	0.2571429	0.13928571
## 322	0.10784314	0.10000000	0.2392157	0.15294118
## 323	0.10937500	0.11132812	0.2480469	0.12695313
## 324	0.10211268	0.11267606	0.2306338	0.15140845
## 325	0.11067194	0.11067194	0.2569170	0.17391304
## 326	0.10344828	0.11034483	0.2672414	0.18620690
## 327	0.10759494	0.12341772	0.2500000	0.14873418
## 328	0.11337209	0.11918605	0.2427326	0.14534884
## 329	0.11023622	0.11679790	0.2683727	0.19160105
## 330	0.11026352	0.11997226	0.2593620	0.15950069
## 331	0.10601266	0.12341772	0.2563291	0.13607595
## 332	0.09831461	0.11516854	0.2500000	0.14466292
## 333	0.10549133	0.11271676	0.2658960	0.17630058
## 334	0.10707692	0.10953846	0.2646154	0.17538462
## 335	0.10714286	0.11904762	0.2589286	0.18526786
## 337	0.11538462	0.12721893	0.2662722	0.13313609
## 338	0.11392405	0.11708861	0.2594937	0.14556962
## 339	0.12773723	0.11678832	0.2445255	0.14963504
## 340	0.12500000	0.12037037	0.2500000	0.12654321
## 341	0.11875000	0.11875000	0.2468750	0.12812500
## 342	0.11111111	0.12865497	0.2514620	0.11695906
## 343	0.12142857	0.13214286	0.2660714	0.14642857
## 344	0.12500000	0.13636364	0.2694805	0.13149351
## 345	0.11486486	0.11486486	0.2398649	0.12837838
## 346	0.11486486	0.11148649	0.2500000	0.13513514
## 347	0.10416667	0.13888889	0.2690972	0.11979167

## 348	0.10261194	0.11380597	0.2388060	0.14925373
## 350	0.10698690	0.11426492	0.2350801	0.14774381
## 351	0.11294964	0.12805755	0.2604317	0.16258993
## 352	0.11718750	0.13085938	0.2734375	0.16601562
## 353	0.10394265	0.12186380	0.2526882	0.20071685
## 354	0.10820896	0.12313433	0.2462687	0.11940299
## 355	0.11111111	0.13550136	0.2452575	0.14295393
## 356	0.10661765	0.11764706	0.2500000	0.12867647
## 357	0.10478360	0.11873576	0.2685080	0.17938497
## 358	0.11339031	0.11595442	0.2384615	0.17378917
## 359	0.11392045	0.12500000	0.2534091	0.19318182
## 360	0.10031646	0.11170886	0.2506329	0.17594937
## 361	0.10023585	0.11586085	0.2520637	0.17158019
## 362	0.10729355	0.11995178	0.2643159	0.18083183
## 363	0.10119048	0.11934524	0.2630952	0.17857143
## 364	0.11216617	0.12611276	0.2697329	0.18842730
## 365	0.10752688	0.12150538	0.2720430	0.18682796
## 366	0.11176471	0.12647059	0.2352941	0.12500000
## 367	0.11249260	0.12966252	0.2634695	0.15186501
## 368	0.10883978	0.11933702	0.2629834	0.14751381
## 369	0.10750000	0.12187500	0.2243750	0.16250000
## 370	0.10924855	0.12196532	0.2398844	0.14682081
## 371	0.10490798	0.12453988	0.2546012	0.14815951
## 372	0.09924488	0.10949299	0.2451456	0.13349515
## 373	0.09202454	0.11042945	0.2401840	0.12944785
## 374	0.10778443	0.13173653	0.2425150	0.14670659
## 375	0.12641622	0.13178295	0.2775790	0.12104949
## 376	0.10226595	0.12104949	0.2501491	0.21198569
## 377	0.11111111	0.11904762	0.2698413	0.14682540
## 378	0.10752137	0.10256410	0.2606838	0.15948718
## 379	0.10769231	0.10192308	0.2634615	0.16923077
## 380	0.09782609	0.08695652	0.2427536	0.14492754
## 381	0.11580882	0.12683824	0.2702206	0.21139706
## 382	0.12500000	0.12867647	0.2665441	0.22058824
## 383	0.12500000	0.12857143	0.2660714	0.22857143
## 384	0.10416667	0.11875000	0.2500000	0.14375000
## 385	0.10743802	0.09917355	0.2561983	0.22314050
## 386	0.10984848	0.11742424	0.2727273	0.14393939
## 387	0.11641791	0.13134328	0.2298507	0.22985075
## 388	0.11594203	0.11681159	0.2420290	0.14347826
## 389	0.10821918	0.12328767	0.2356164	0.12465753
## 390	0.10449735	0.11878307	0.2402116	0.16402116
## 391	0.11208791	0.12032967	0.2554945	0.14697802
## 392	0.10914127	0.12742382	0.2451524	0.14404432
## 393	0.10701107	0.13284133	0.2656827	0.13653137
## 394	0.11290323	0.12096774	0.2580645	0.12096774
## 395	0.11885246	0.11270492	0.2663934	0.15983607
## 396	0.10901408	0.10760563	0.2352113	0.14647887
## 397	0.10270270	0.12972973	0.2648649	0.12432432
## 398	0.10372340	0.10904255	0.2473404	0.11702128
## 399	0.11413043	0.12228261	0.2581522	0.13586957
## 400	0.09826590	0.12138728	0.2485549	0.12138728
## 401	0.11797753	0.13483146	0.2528090	0.11516854
## 402	0.10781250	0.13281250	0.2546875	0.13281250

## 403	0.10840108	0.10840108	NaN	0.15718157
## 404	0.10909091	0.10909091	0.2606061	0.12424242
## 405	0.10526316	0.12188366	0.2548476	0.14127424
## 406	0.10759494	0.12025316	0.2531646	0.12658228
## 407	0.10592186	0.13308913	0.2735043	0.17185592
## 408	0.10352029	0.11873508	0.2494033	0.18108592
## 409	0.10095866	0.10155782	0.2363691	0.14110246
## 410	0.11079900	0.12453184	0.2671660	0.16573034
## 411	0.10190074	0.12249208	0.2381204	0.19297782
## 412	0.09203380	0.11858781	0.2459264	0.17652384
## 413	0.09873950	0.10924370	0.2503001	0.17977191
## 414	0.09417421	0.10718326	0.2500000	0.18269231
## 415	0.97009967	0.11821705	0.2320044	0.17746401
## 416	0.10220674	0.10365854	0.2511614	0.17450639
## 417	0.10771277	0.11755319	0.2380319	0.12101064
## 418	0.11017746	0.11458456	0.2710365	0.15718651
## 419	0.12645218	0.12806570	0.2634568	0.14602427
## 420	0.11293436	0.11486486	0.2625483	0.11776062
## 421	0.11250000	0.12589286	0.2508929	0.14732143
## 422	0.10700000	0.12000000	0.2500000	0.14400000
## 423	0.11428571	0.12976190	0.2476190	0.13333333
## 424	0.11151079	0.12949640	0.2410072	0.16187050
## 425	0.10370370	0.10555556	0.2259259	0.16666667
## 426	0.10742187	0.11523438	0.2382812	0.17382812
##	arm.reach/height	foot.length/height	floor.kneepit/height	floor.hip/height
## 1	1.2373439	0.14234057	0.2465483	0.5769231
## 2	1.2816092	0.13218391	0.2887931	0.5876437
## 3	1.0892857	0.11904762	0.2440476	0.6071429
## 4	1.2317073	0.14024390	0.2378049	0.5365854
## 5	1.2762431	0.13812155	0.2320442	0.5469613
## 6	1.3188220	0.16261204	0.2704866	0.6145967
## 7	0.9727803	0.14225535	0.2495139	0.5800389
## 8	1.2443292	0.14257939	0.2495139	0.5703176
## 9	0.2200347	0.15055009	0.2605675	0.5558772
## 10	1.2262195	0.14207317	0.2347561	0.5365854
## 21	0.3620690	0.15034483	0.2820690	0.6131034
## 22	0.3922652	0.13756906	0.2831492	0.5801105
## 23	0.3768021	0.14908257	0.2749017	0.5907602
## 24	0.3828909	0.13952802	0.2743363	0.6097345
## 25	0.4002426	0.13523347	0.2644027	0.6033960
## 26	0.3906250	0.15625000	0.2958984	0.5999349
## 27	0.3751406	0.14735658	0.2544994	0.5762092
## 28	0.3859180	0.14052288	0.2667855	0.5659537
## 29	0.3821282	0.12786596	0.2695473	0.5961199
## 30	0.3707124	0.14610818	0.2704485	0.6306069
## 31	1.2903226	0.16129032	0.2741935	0.5896057
## 32	1.2122905	0.14245810	0.2891061	0.5726257
## 33	1.1989529	0.15445026	0.2604712	0.5680628
## 34	1.2220280	0.14685315	0.2779720	0.5970280
## 35	1.2539370	0.13779528	0.2696850	0.6023622
## 36	1.2513889	0.16527778	0.2694444	0.5930556
## 37	1.2290389	0.15439673	0.3190184	0.6012270
## 38	1.1457143	0.14952381	0.2657143	0.5733333
## 39	1.2862903	0.14314516	0.2752016	0.5927419

## 40	1.2517730	0.14539007	0.2792624	0.5966312
## 41	1.2720884	0.15060241	0.2740964	0.6054217
## 75	1.2682584	0.14887640	0.2429775	0.5266854
## 76	0.8397115	0.13986014	0.2514179	0.5452894
## 77	0.8397948	0.13683010	0.2508552	0.5453250
## 78	0.8385093	0.13975155	0.2515528	0.5465839
## 79	0.8393939	0.13939394	0.2515152	0.5454545
## 80	0.8387097	0.13978495	0.2526882	0.5430108
## 81	0.8396739	0.14130435	0.2500000	0.5434783
## 82	0.8553459	0.14465409	0.2578616	0.5566038
## 83	0.8409704	0.14016173	0.2533693	0.5444744
## 84	0.8486486	0.14054054	0.2540541	0.5486486
## 85	1.2281421	0.15300546	0.2540984	0.5792350
## 86	1.2372372	0.13813814	0.2657658	0.6051051
## 87	1.2666667	0.14603175	0.2507937	0.5222222
## 88	1.3644315	0.11661808	0.2507289	0.6064140
## 89	1.2528090	0.15028090	0.2752809	0.5646067
## 90	1.2380952	0.15029762	0.2678571	0.6071429
## 91	1.2411765	0.14117647	0.2470588	0.5529412
## 92	1.2556180	0.14466292	0.2752809	0.5646067
## 93	1.3278689	0.15846995	0.3060109	0.5628415
## 94	0.6885714	0.14285714	0.2914286	0.5285714
## 95	0.4829193	0.08385093	0.2608696	0.5263975
## 96	1.2837838	0.15405405	0.2864865	0.6108108
## 97	1.2500000	0.14311594	0.2608696	0.5362319
## 98	NaN	NaN	NaN	NaN
## 99	NaN	NaN	NaN	NaN
## 100	NaN	NaN	NaN	NaN
## 101	NaN	NaN	NaN	NaN
## 102	NaN	NaN	NaN	NaN
## 103	NaN	NaN	NaN	NaN
## 104	NaN	NaN	NaN	NaN
## 105	NaN	NaN	NaN	NaN
## 106	NaN	NaN	NaN	NaN
## 107	0.4094203	0.13949275	0.2753623	0.5543478
## 108	0.3730769	0.13846154	0.2769231	0.6134615
## 109	0.4107143	0.15535714	0.2785714	0.5517857
## 110	NaN	NaN	NaN	NaN
## 111	NaN	NaN	NaN	NaN
## 112	NaN	NaN	NaN	NaN
## 113	NaN	NaN	NaN	NaN
## 114	NaN	NaN	NaN	NaN
## 115	NaN	NaN	NaN	NaN
## 116	NaN	NaN	NaN	NaN
## 117	1.2702703	0.15540541	0.2432432	0.5540541
## 118	1.2755906	0.14173228	0.2362205	0.5708661
## 119	1.2629310	0.15517241	0.2370690	0.6120690
## 120	1.2888889	0.15111111	0.2622222	0.6311111
## 121	1.2822967	0.15311005	0.2679426	0.5980861
## 122	1.0362903	0.12903226	0.2096774	0.5080645
## 123	NA	NA	NA	NaN
## 124	NA	NA	NA	NaN
## 125	1.2068966	0.14655172	0.2586207	0.5344828
## 126	0.9058172	0.14819945	0.2409972	0.5470914

## 127	0.3691070	0.13754853	0.2956184	NaN
## 128	0.3760684	0.15506716	0.2735043	NaN
## 129	0.3505269	0.16916251	0.2728785	NaN
## 130	0.3855346	0.15251572	0.2616352	NaN
## 131	0.3698895	0.15607735	0.3016575	NaN
## 132	NaN	0.15789474	0.2631579	NaN
## 133	NaN	0.14128728	0.2501308	NaN
## 134	0.3666667	0.14444444	0.2833333	NaN
## 135	0.3505917	0.14497041	0.2795858	NaN
## 136	0.3609551	0.14325843	0.2485955	NaN
## 227	1.4529617	0.16550523	0.3170732	0.7003484
## 228	1.2118644	0.15536723	0.2768362	0.5734463
## 229	1.2442857	0.14714286	0.2700000	0.5700000
## 230	1.2471429	0.14285714	0.2614286	0.5742857
## 231	1.3234463	0.16949153	0.2796610	0.6200565
## 232	1.2304217	0.16415663	0.2981928	0.6054217
## 233	1.2801724	0.13936782	0.2787356	0.5919540
## 234	1.2568306	0.14617486	0.2718579	0.5218579
## 235	1.1532258	0.15860215	0.2526882	0.5026882
## 236	1.2429775	0.14185393	0.2837079	0.5814607
## 237	1.3182773	0.15549527	0.2779064	0.6186727
## 238	1.2980769	0.16050878	0.2786190	0.6238643
## 239	1.2842742	0.14922530	0.2540005	0.5969012
## 240	1.3181818	0.15175376	0.2806013	0.5898354
## 241	1.2694611	0.15568862	0.2994012	0.6107784
## 242	1.2823529	0.15882353	0.2941176	0.6176471
## 243	1.2685065	0.15162338	0.2623377	0.6243506
## 244	1.3143939	0.21176330	0.4414221	0.6024815
## 245	1.2324324	0.16216216	0.3135135	0.5621622
## 246	1.2034884	0.13372093	0.2790698	0.2034884
## 277	1.2936288	0.15789474	0.2437673	0.5567867
## 278	1.2875000	0.15781250	0.2531250	0.6031250
## 279	1.2842857	0.16000000	0.2542857	0.5957143
## 280	1.2944444	0.15555556	0.2611111	0.5638889
## 281	1.2721519	0.14556962	0.2626582	0.6155063
## 282	1.3123288	0.14246575	0.2657534	0.5917808
## 283	1.2797619	0.14880952	0.2589286	0.5684524
## 284	1.2817680	0.15745856	0.2375691	0.5276243
## 285	1.2774194	0.15806452	0.2516129	0.6096774
## 286	1.3196023	0.15340909	0.2500000	0.5568182
## 297	1.2439024	0.13951220	0.2391057	0.5670732
## 298	1.2687500	0.15228571	0.2815000	0.5755714
## 299	1.2622965	0.14463466	0.2720668	0.5686848
## 300	1.2605871	0.14193942	0.2557063	0.5658197
## 301	1.2549020	0.14901961	0.2666667	0.5803922
## 302	1.2829861	0.14236111	0.2847222	0.5885417
## 303	1.2744444	0.14285714	0.2698413	0.5424603
## 304	1.2360377	0.14460377	0.2550943	0.6112453
## 305	1.2787162	0.14695946	0.2702703	0.5574324
## 306	1.2692308	0.13653846	0.2596154	0.5820000
## 307	1.2514451	0.15028902	0.2760116	0.5549133
## 308	1.2380240	0.14970060	0.2904192	0.5673653
## 309	1.2515924	0.14649682	0.2770701	0.5636943
## 310	1.2151899	0.15189873	0.3037975	0.5664557

## 311	1.2561728	0.14814815	0.3055556	0.5925926
## 312	1.2738095	0.14880952	0.2797619	0.5565476
## 313	1.2880795	0.15894040	0.3112583	0.6341060
## 314	1.2181208	0.15100671	0.3036913	0.6258389
## 315	1.2327044	0.14150943	0.2987421	0.5849057
## 316	1.2407407	0.14814815	0.3024691	0.6049383
## 317	1.2956204	0.14598540	0.2427007	0.5145985
## 318	1.2835821	0.13805970	0.2518657	0.5671642
## 319	1.2714286	0.15000000	0.2571429	0.5928571
## 320	1.2945000	0.14166667	0.2500000	0.5750000
## 321	1.2428571	0.14107143	0.2375000	0.5839286
## 322	1.2039216	0.14705882	0.2588235	0.4921569
## 323	1.1718750	0.15039062	0.2539063	0.5546875
## 324	1.1478873	0.14260563	0.2570423	0.5669014
## 325	1.2727273	0.15415020	0.3003953	0.6007905
## 326	1.2879310	0.15344828	0.2620690	0.5689655
## 327	1.2626582	0.13765823	0.2262658	0.5854430
## 328	1.2296512	0.14680233	0.2558140	0.5813953
## 329	1.2834646	0.14895013	0.2703412	0.5518373
## 330	1.3002774	0.14840499	0.2905687	0.6047157
## 331	1.2563291	0.14873418	0.2547468	0.5363924
## 332	1.3146067	0.13202247	0.2668539	0.5758427
## 333	0.4855491	0.15317919	0.2630058	0.5823699
## 334	1.2569231	0.13723077	0.2461538	0.5938462
## 335	1.3002976	0.14538690	0.2336310	0.5446429
## 337	1.2130178	0.15384615	0.2692308	0.5739645
## 338	1.2341772	0.14715190	0.2658228	0.5569620
## 339	1.2554745	0.16058394	0.2773723	0.5729927
## 340	1.2129630	0.14660494	0.2716049	0.5308642
## 341	1.1843750	0.14687500	0.2531250	0.5218750
## 342	1.2426901	0.15204678	0.2865497	0.5643275
## 343	1.2821429	0.15000000	0.3071429	0.5642857
## 344	1.2792208	0.16071429	0.2922078	0.5811688
## 345	1.2432432	0.15371622	0.2854730	0.6013514
## 346	1.2263514	0.15540541	0.2668919	0.5912162
## 347	1.2829861	0.15277778	0.2916667	0.5416667
## 348	1.1737313	0.13992537	0.2481343	0.5298507
## 350	1.2518195	0.14919942	0.2536390	0.6048035
## 351	1.2920863	0.15251799	0.2834532	0.6071942
## 352	1.2421875	0.14257812	0.2714844	0.5644531
## 353	1.2670251	0.13261649	0.2903226	0.5645161
## 354	1.2238806	0.14552239	0.2649254	0.5410448
## 355	1.2594851	0.15785908	0.2547425	0.5995935
## 356	1.2500000	0.13419118	0.2720588	0.5716912
## 357	1.2642369	0.15005695	0.2568337	0.5395786
## 358	1.2849003	0.14529915	0.2564103	0.5299145
## 359	1.2897727	0.15085227	0.2730114	0.5340909
## 360	1.2332278	0.13639241	0.2484177	0.5189873
## 361	1.2361439	0.14268868	0.2432193	0.5247642
## 362	1.2115732	0.14587101	0.2531646	0.5069319
## 363	1.2901786	0.14523810	0.2916667	0.5232143
## 364	1.2640950	0.15281899	0.2477745	0.5445104
## 365	1.2768817	0.15188172	0.2553763	0.5174731
## 366	1.2852941	0.15294118	0.2470588	0.5470588

## 367	1.2368265	0.14387211	0.2726465	0.5728242
## 368	1.2759669	0.14751381	0.2856354	0.5701657
## 369	1.2371875	0.13750000	0.2562500	0.5687500
## 370	1.2254335	0.14450867	0.2563584	0.5693642
## 371	1.2711656	0.14815951	0.2641104	0.5650307
## 372	1.2219525	0.16450917	0.3967098	0.5480043
## 373	1.2297546	0.13588957	0.2815951	0.5610429
## 374	1.2754491	0.15868263	0.2574850	0.5538922
## 375	1.2671437	0.15414431	0.3011330	0.5638044
## 376	1.2653548	0.16398330	0.2725104	0.5605247
## 377	1.2857143	0.16388889	0.2638889	0.5555556
## 378	1.3247863	0.14957265	0.2735043	0.5641026
## 379	1.2846154	0.14615385	0.2967692	0.5538462
## 380	1.2826087	0.14492754	0.2753623	0.5507246
## 381	1.1525735	0.15257353	0.2591912	0.5073529
## 382	1.1636029	0.15441176	0.2591912	0.4779412
## 383	1.1660714	0.15714286	0.2571429	0.4767857
## 384	1.2750000	0.14375000	0.2645833	0.5562500
## 385	0.9917355	0.12809917	0.3016529	0.5867769
## 386	1.2727273	0.15909091	0.2462121	0.5227273
## 387	1.2597015	0.14328358	0.2776119	0.5716418
## 388	1.2652174	0.14637681	0.2971014	0.5869565
## 389	1.2150685	0.14246575	0.2410959	0.5479452
## 390	1.2645503	0.13915344	0.2870370	0.5846561
## 391	1.2623626	0.14313187	0.2788462	0.6208791
## 392	1.2520776	0.14736842	0.2853186	0.5941828
## 393	1.2140221	0.15682657	0.2804428	0.5645756
## 394	1.2379032	0.14516129	0.2822581	0.5645161
## 395	1.2090164	0.13934426	0.2622951	0.5368852
## 396	1.2492958	0.14366197	0.2873239	0.6000000
## 397	1.3189189	0.14594595	0.2486486	0.5567568
## 398	1.2765957	0.13829787	0.2393617	0.5372340
## 399	1.2826087	0.14130435	0.2500000	0.5733696
## 400	1.2485549	0.13872832	0.2601156	0.5722543
## 401	1.2556180	0.15168539	0.2752809	0.5674157
## 402	1.2937500	0.14531250	0.2531250	0.5968750
## 403	1.2791328	0.15176152	0.2547425	0.5189702
## 404	1.2484848	0.14393939	0.2606061	0.6000000
## 405	1.2659280	0.14681440	0.2963989	0.5498615
## 406	1.3291139	0.14556962	0.2721519	0.6075949
## 407	1.2805250	0.13827839	0.2554945	0.5570818
## 408	1.2291169	0.13036993	0.2520883	0.5957637
## 409	1.1884362	0.13271420	0.3118634	0.5515279
## 410	1.2462547	0.24188514	0.1532459	0.6039326
## 411	1.1739704	0.15258712	0.3041183	0.5337909
## 412	1.2305371	0.13126132	0.2471334	0.5950513
## 413	1.2466987	0.14495798	0.2995198	0.5441176
## 414	1.1948529	0.14507919	0.2873303	0.4966063
## 415	1.1962901	0.13981174	0.3009413	0.5354374
## 416	1.2206736	0.14459930	0.2775842	0.5325203
## 417	1.2367021	0.15292553	0.2460106	0.5984043
## 418	1.2835821	0.13074392	0.2680103	0.5450112
## 419	1.2971311	0.15737705	0.2638602	0.6017813
## 420	1.2345560	0.13127413	0.2509653	0.5763536

## 421	1.2973214	0.15535714	0.2535714	0.6214286
## 422	1.3100000	0.15100000	0.2560000	0.6240000
## 423	1.2571429	0.15833333	0.2714286	0.5904762
## 424	1.2877698	0.14388489	0.2374101	0.5737410
## 425	1.2777778	0.14074074	0.2518519	0.5592593
## 426	1.3085938	0.13281250	0.2421875	0.5859375
##	floor.armpit/height	height/head.height	head.height/head.height	
## 1	0.8119658	6.613043		1
## 2	0.8089080	7.873303		1
## 3	0.8273810	9.333333		1
## 4	0.7743902	7.130435		1
## 5	0.7955801	6.961538		1
## 6	0.8405890	6.942222		1
## 7	0.7906675	6.857778		1
## 8	0.7971484	6.708696		1
## 9	0.7817024	8.635000		1
## 10	0.7743902	7.130435		1
## 21	0.8034483	7.712766		1
## 22	0.7947514	7.448560		1
## 23	0.7788336	8.338798		1
## 24	0.7522124	8.071429		1
## 25	0.7640995	8.633508		1
## 26	0.7975260	6.918919		1
## 27	0.7958380	8.673171		1
## 28	0.7843137	7.581081		1
## 29	0.7651382	7.560000		1
## 30	0.7908971	7.618090		1
## 31	0.8279570	7.540541		1
## 32	0.7821229	6.884615		1
## 33	0.7434555	6.821429		1
## 34	0.7963287	7.729730		1
## 35	0.8129921	7.055556		1
## 36	0.7861111	7.500000		1
## 37	0.8077710	8.150000		1
## 38	0.8323810	7.608696		1
## 39	0.8145161	7.085714		1
## 40	0.8138298	7.726027		1
## 41	0.8373494	7.114286		1
## 75	0.7584270	8.476190		1
## 76	0.7485821	8.937500		1
## 77	0.7482896	8.948980		1
## 78	0.7453416	8.944444		1
## 79	0.7454545	8.918919		1
## 80	0.7473118	8.857143		1
## 81	0.7500000	8.975610		1
## 82	0.7672956	8.833333		1
## 83	0.7493261	8.833333		1
## 84	0.7513514	8.809524		1
## 85	0.7486339	7.956522		1
## 86	0.8123123	8.121951		1
## 87	0.7714286	6.847826		1
## 88	0.8104956	7.795455		1
## 89	0.7275281	7.739130		1
## 90	0.7619048	8.400000		1

## 91	0.7647059	6.296296	1
## 92	0.7696629	7.416667	1
## 93	0.7704918	7.320000	1
## 94	0.7971429	6.481481	1
## 95	0.7748447	7.666667	1
## 96	0.7783784	7.708333	1
## 97	0.7536232	7.263158	1
## 98	NaN	NA	NA
## 99	NaN	NA	NA
## 100	NaN	NA	NA
## 101	NaN	NA	NA
## 102	NaN	NA	NA
## 103	NaN	NA	NA
## 104	NaN	NA	NA
## 105	NaN	NA	NA
## 106	NaN	NA	NA
## 107	0.7608696	7.459459	1
## 108	0.7538462	7.647059	1
## 109	0.7750000	7.179487	1
## 110	NaN	NA	1
## 111	NaN	NA	1
## 112	NaN	NA	1
## 113	NaN	NA	1
## 114	NaN	NA	1
## 115	NaN	NA	1
## 116	NaN	NA	1
## 117	0.8108108	8.000000	1
## 118	0.7998016	7.937500	1
## 119	0.8017241	6.823529	1
## 120	0.7866667	6.617647	1
## 121	0.7990431	6.147059	1
## 122	0.6612903	7.294118	1
## 123	NA	NA	1
## 124	NA	NA	1
## 125	0.7586207	6.444444	1
## 126	0.8227147	8.395349	1
## 127	0.6691625	7.098425	1
## 128	0.6474359	7.152838	1
## 129	0.6586245	7.481328	1
## 130	0.6550314	6.943231	1
## 131	0.6947514	7.125984	1
## 132	0.7526316	7.916667	1
## 133	0.6480900	7.157303	1
## 134	0.6666667	6.101695	1
## 135	0.6701183	7.041667	1
## 136	0.6362360	6.137931	1
## 227	0.8797909	6.522727	1
## 228	0.7782486	7.375000	1
## 229	0.7714286	8.139535	1
## 230	0.7771429	8.139535	1
## 231	0.8531073	8.045455	1
## 232	0.7936747	8.300000	1
## 233	0.7600575	7.909091	1
## 234	0.7527322	7.956522	1

## 235	0.7473118	4.650000	1
## 236	0.8103933	7.739130	1
## 237	0.7642427	7.372195	1
## 238	0.7631738	7.178261	1
## 239	0.7842266	7.874000	1
## 240	0.7644953	7.430851	1
## 241	0.7784431	7.590909	1
## 242	0.7823529	7.083333	1
## 243	0.7961039	7.333333	1
## 244	0.7933667	6.985000	1
## 245	0.7945946	7.400000	1
## 246	0.6162791	7.818182	1
## 277	0.7894737	6.811321	1
## 278	0.8406250	8.000000	1
## 279	0.8114286	7.291667	1
## 280	0.8055556	7.826087	1
## 281	0.8069620	6.448980	1
## 282	0.7890411	7.300000	1
## 283	0.8080357	6.461538	1
## 284	0.7845304	7.098039	1
## 285	0.8129032	7.045455	1
## 286	0.7840909	7.333333	1
## 297	0.7899187	7.687500	1
## 298	0.7642857	7.567568	1
## 299	0.8134447	7.257576	1
## 300	0.7707077	8.443636	1
## 301	0.8078431	8.500000	1
## 302	0.8437500	8.000000	1
## 303	0.8065476	7.563025	1
## 304	0.8026415	8.179012	1
## 305	0.7787162	9.250000	1
## 306	0.7923077	7.878788	1
## 307	0.7456647	7.863636	1
## 308	0.7574850	9.277778	1
## 309	0.7611465	8.263158	1
## 310	0.6993671	6.583333	1
## 311	0.7808642	7.200000	1
## 312	0.7738095	6.000000	1
## 313	0.8013245	7.550000	1
## 314	0.8187919	5.137931	1
## 315	0.7672956	6.913043	1
## 316	0.8117284	7.200000	1
## 317	0.8667883	6.936709	1
## 318	0.7686567	9.241379	1
## 319	0.7428571	7.000000	1
## 320	0.7666667	6.315789	1
## 321	0.7964286	8.750000	1
## 322	0.7137255	8.225806	1
## 323	0.7656250	7.529412	1
## 324	0.7605634	8.875000	1
## 325	0.7272727	8.433333	1
## 326	0.8155172	8.787879	1
## 327	0.7784810	7.181818	1
## 328	0.7877907	7.166667	1

## 329	0.8215223	8.561798	1
## 330	0.8280166	8.383721	1
## 331	0.8227848	7.707317	1
## 332	0.8061798	8.090909	1
## 333	0.7341040	8.650000	1
## 334	0.8169231	8.004926	1
## 335	0.7968750	8.400000	1
## 337	0.7781065	7.681818	1
## 338	0.7943038	7.348837	1
## 339	0.7883212	5.956522	1
## 340	0.7345679	6.750000	1
## 341	0.7656250	6.956522	1
## 342	0.7865497	7.434783	1
## 343	0.7964286	7.000000	1
## 344	0.7824675	6.553191	1
## 345	0.7939189	6.166667	1
## 346	0.7567568	6.434783	1
## 347	0.7881944	7.783784	1
## 348	0.7388060	4.466667	1
## 350	0.7729258	8.587500	1
## 351	0.8086331	9.266667	1
## 352	0.7812500	4.923077	1
## 353	0.8100358	8.454545	1
## 354	0.7500000	7.444444	1
## 355	0.8211382	8.434286	1
## 356	0.7647059	8.000000	1
## 357	0.8029613	8.361905	1
## 358	0.8096866	8.775000	1
## 359	0.8125000	8.585366	1
## 360	0.7547468	9.028571	1
## 361	0.7455778	8.233010	1
## 362	0.7389994	7.900000	1
## 363	0.6199405	7.304348	1
## 364	0.7863501	8.023810	1
## 365	0.7903226	8.651163	1
## 366	0.7647059	9.189189	1
## 367	0.7554766	7.855814	1
## 368	0.7527624	7.938596	1
## 369	0.7481250	7.272727	1
## 370	0.7601156	6.920000	1
## 371	0.7920245	7.409091	1
## 372	0.7775081	7.629630	1
## 373	0.8098160	7.761905	1
## 374	0.7559880	7.260870	1
## 375	0.7960644	5.409677	1
## 376	0.7838402	5.590000	1
## 377	0.8849206	8.400000	1
## 378	0.7692308	7.800000	1
## 379	0.7846154	8.965517	1
## 380	0.7028986	9.857143	1
## 381	0.7555147	9.379310	1
## 382	0.7408088	8.000000	1
## 383	0.7339286	8.235294	1
## 384	0.8583333	7.741935	1

## 385	0.7520661	6.722222	1
## 386	0.8333333	8.516129	1
## 387	0.7582090	6.700000	1
## 388	0.7710145	7.666667	1
## 389	0.7931507	7.934783	1
## 390	0.8227513	8.590909	1
## 391	0.8049451	7.744681	1
## 392	0.7977839	8.204545	1
## 393	0.7970480	7.527778	1
## 394	0.7903226	7.750000	1
## 395	0.7991803	7.176471	1
## 396	0.7746479	7.395833	1
## 397	0.7783784	8.043478	1
## 398	0.7712766	8.355556	1
## 399	0.7663043	7.666667	1
## 400	0.8294798	7.863636	1
## 401	0.8258427	7.416667	1
## 402	0.7625000	6.808511	1
## 403	0.7913279	7.687500	1
## 404	0.7696970	7.173913	1
## 405	0.7590028	8.395349	1
## 406	0.7594937	6.869565	1
## 407	0.7530525	7.875000	1
## 408	0.7589499	7.980952	1
## 409	0.7567406	8.024038	1
## 410	0.7665418	7.420102	1
## 411	0.7629356	8.892019	1
## 412	0.7537719	7.635945	1
## 413	0.7821128	8.288557	1
## 414	0.7451923	8.796020	1
## 415	0.7749169	8.809756	1
## 416	0.7610337	9.015707	1
## 417	0.7699468	7.673469	1
## 418	0.8255964	6.700000	1
## 419	0.8082484	7.393939	1
## 420	0.7490347	7.848485	1
## 421	0.7571429	7.777778	1
## 422	0.7640000	8.620690	1
## 423	0.7452381	7.000000	1
## 424	0.7589928	8.176471	1
## 425	0.7814815	8.437500	1
## 426	0.7792969	8.000000	1
##	head.c/head.height	arm.span/head.height	floor.navel/head.height
## 1	NA	6.443478	NA
## 2	NA	7.556561	NA
## 3	NA	8.722222	NA
## 4	NA	6.739130	NA
## 5	NA	7.038462	NA
## 6	NA	7.444444	NA
## 7	NA	6.671111	NA
## 8	NA	6.565217	NA
## 9	NA	7.700000	NA
## 10	NA	6.708696	NA
## 21	2.941489	7.537234	4.595745

## 22	2.407407	7.242798	4.629630
## 23	2.989071	8.721311	4.989071
## 24	2.666667	7.857143	5.019048
## 25	2.994764	7.952880	5.026178
## 26	2.882883	7.256757	4.315315
## 27	2.892683	8.917073	5.073171
## 28	2.639640	7.463964	4.594595
## 29	2.564444	7.493333	4.488889
## 30	2.768844	7.839196	4.723618
## 31	2.405405	7.837838	4.459459
## 32	3.000000	6.634615	3.980769
## 33	2.750000	6.607143	3.946429
## 34	2.540541	7.756757	4.608108
## 35	2.388889	7.027778	4.277778
## 36	3.333333	7.604167	4.270833
## 37	2.916667	8.116667	4.800000
## 38	2.565217	7.637681	4.260870
## 39	2.514286	7.085714	4.228571
## 40	2.506849	7.904110	4.465753
## 41	2.557143	7.228571	4.314286
## 75	2.809524	8.380952	4.690476
## 76	2.854331	10.750000	5.364173
## 77	2.857143	10.765306	5.372449
## 78	2.833333	10.722222	5.361111
## 79	2.864865	10.729730	5.351351
## 80	2.809524	10.666667	5.333333
## 81	2.878049	10.780488	5.365854
## 82	2.888889	10.833333	5.388889
## 83	2.809524	10.619048	5.285714
## 84	2.904762	10.666667	5.285714
## 85	2.521739	7.956522	4.739130
## 86	2.609756	8.000000	4.829268
## 87	2.391304	6.956522	3.913043
## 88	2.409091	2.954545	4.863636
## 89	2.565217	7.434783	4.391304
## 90	2.800000	8.300000	4.950000
## 91	2.074074	6.444444	3.666667
## 92	2.416667	7.520833	4.333333
## 93	0.920000	6.480000	4.320000
## 94	2.074074	2.777778	3.814815
## 95	2.476190	2.928571	4.619048
## 96	2.375000	8.000000	4.541667
## 97	2.442105	7.447368	4.052632
## 98	NA	NA	NA
## 99	NA	NA	NA
## 100	NA	NA	NA
## 101	NA	NA	NA
## 102	NA	NA	NA
## 103	NA	NA	NA
## 104	NA	NA	NA
## 105	NA	NA	NA
## 106	NA	NA	NA
## 107	2.486486	7.702703	4.216216
## 108	2.470588	7.529412	4.261232

## 109	2.358974	7.589744	3.957198
## 110	2.555556	NA	NA
## 111	2.000000	NA	NA
## 112	2.486486	NA	NA
## 113	2.714286	NA	NA
## 114	2.181818	NA	NA
## 115	2.648649	NA	NA
## 116	1.971154	NA	NA
## 117	NA	8.378378	NA
## 118	NA	7.812500	NA
## 119	NA	6.970588	NA
## 120	NA	6.823529	NA
## 121	NA	6.235294	NA
## 122	NA	6.176471	NA
## 123	NA	8.142857	NA
## 124	NA	7.478261	NA
## 125	NA	NA	NA
## 126	2.790698	8.325581	5.000000
## 127	2.200787	6.598425	5.551181
## 128	2.497817	6.441048	5.379913
## 129	2.477178	6.784232	5.796680
## 130	2.384279	6.213974	5.379913
## 131	2.374016	6.496063	5.948819
## 132	2.416667	7.208333	5.958333
## 133	2.116105	6.573034	5.636704
## 134	2.000000	5.796610	4.745763
## 135	2.416667	6.583333	5.520833
## 136	1.965517	5.793103	4.362069
## 227	2.545455	7.500000	4.704545
## 228	2.375000	7.291667	4.458333
## 229	2.767442	8.139535	4.837209
## 230	2.581395	8.093023	4.813953
## 231	2.636364	8.227273	5.022727
## 232	2.825000	8.000000	5.100000
## 233	2.613636	7.954545	4.636364
## 234	2.500000	7.478261	4.739130
## 235	2.550000	4.525000	2.450000
## 236	2.586957	7.695652	4.543478
## 237	2.609756	7.512195	4.609756
## 238	2.391304	7.675217	4.521739
## 239	2.675000	8.255000	4.625000
## 240	2.595745	7.674043	4.468085
## 241	2.500000	7.772727	4.772727
## 242	2.375000	7.291667	4.416667
## 243	2.676190	7.380952	4.476190
## 244	2.437500	7.408333	4.166667
## 245	2.360000	7.520000	4.320000
## 246	2.636364	7.727273	4.045455
## 277	2.283019	6.849057	3.905660
## 278	2.775000	7.850000	NA
## 279	2.416667	7.500000	NA
## 280	2.543478	8.043478	NA
## 281	2.265306	6.591837	4.000000
## 282	2.240000	7.440000	4.620000

## 283	2.192308	6.423077	3.788462
## 284	2.392157	7.156863	4.039216
## 285	2.590909	7.000000	NA
## 286	2.437500	7.375000	NA
## 297	2.656250	7.531250	4.375000
## 298	2.432432	8.000000	4.432432
## 299	2.484848	7.151515	4.151515
## 300	2.575758	8.469697	4.860606
## 301	2.800000	8.433333	5.000000
## 302	2.555556	8.166667	4.944444
## 303	2.460984	7.472989	4.141657
## 304	2.469136	8.364198	5.154321
## 305	2.875000	9.406250	5.468750
## 306	2.787879	7.939394	4.818182
## 307	2.477273	7.863636	4.545455
## 308	2.944444	9.277778	5.666667
## 309	2.815789	8.368421	4.947368
## 310	2.208333	6.083333	3.875000
## 311	2.488889	7.244444	4.355556
## 312	1.892857	6.321429	3.464286
## 313	2.800000	8.250000	4.550000
## 314	1.862069	5.103448	3.051724
## 315	2.347826	7.260870	3.913043
## 316	2.577778	7.133333	4.066667
## 317	2.405063	7.240506	4.151899
## 318	3.034483	9.379310	5.517241
## 319	2.250000	7.200000	4.250000
## 320	2.315789	6.315789	3.605263
## 321	2.781250	9.000000	5.281250
## 322	2.806452	8.032258	4.322581
## 323	2.647059	7.470588	4.411765
## 324	2.875000	9.000000	5.375000
## 325	2.933333	8.000000	5.133333
## 326	2.757576	8.909091	5.151515
## 327	2.431818	7.250000	4.159091
## 328	2.333333	7.000000	4.104167
## 329	2.573034	8.674157	5.078652
## 330	2.581395	8.627907	5.162791
## 331	2.780488	8.097561	4.390244
## 332	2.454545	7.909091	4.886364
## 333	1.075000	8.950000	5.200000
## 334	2.748768	8.128079	4.753695
## 335	2.750000	8.250000	4.850000
## 337	2.636364	7.863636	4.590909
## 338	2.651163	7.534884	4.279070
## 339	2.347826	6.043478	3.695652
## 340	2.333333	6.833333	3.875000
## 341	2.347826	6.913043	4.130435
## 342	2.478261	7.456522	4.391304
## 343	2.750000	7.150000	4.150000
## 344	2.425532	6.808511	4.085106
## 345	2.375000	6.166667	3.875000
## 346	2.347826	6.391304	4.000000
## 347	2.432432	8.216216	4.594595

## 348	1.583333	4.166667	2.466667
## 350	2.725000	8.625000	5.187500
## 351	2.906667	9.693333	5.733333
## 352	1.769231	5.038462	3.000000
## 353	2.636364	8.393939	5.090909
## 354	2.555556	7.500000	4.347222
## 355	2.742857	8.617143	5.177143
## 356	2.617647	8.014706	4.823529
## 357	2.561905	8.390476	5.190476
## 358	2.750000	8.900000	5.350000
## 359	2.731707	8.682927	5.317073
## 360	3.200000	8.725714	5.371429
## 361	2.815534	7.912621	4.854369
## 362	2.666667	7.928571	4.523810
## 363	2.478261	7.478261	4.130435
## 364	2.642857	8.095238	4.928571
## 365	2.767442	8.781395	5.325581
## 366	3.027027	9.513514	5.621622
## 367	2.581395	8.093023	4.674419
## 368	2.456140	8.355263	4.745614
## 369	2.772727	7.159091	4.272727
## 370	2.336000	7.280000	4.160000
## 371	2.500000	7.727273	4.409091
## 372	2.386831	7.473251	4.493827
## 373	2.571429	7.014286	4.838095
## 374	2.413043	7.434783	4.347826
## 375	1.858065	5.448387	3.164516
## 376	1.820000	5.800000	3.556667
## 377	2.933333	8.800000	5.166667
## 378	3.066667	7.910667	4.733333
## 379	2.931034	8.965517	5.517241
## 380	3.185714	9.571429	5.857143
## 381	2.413793	9.413793	5.034483
## 382	2.382353	8.235294	4.147059
## 383	2.235294	8.588235	4.029412
## 384	2.580645	7.870968	4.645161
## 385	2.555556	6.888889	4.222222
## 386	2.709677	9.032258	5.032258
## 387	2.320000	6.320000	4.080000
## 388	2.697778	7.755556	4.533333
## 389	2.717391	7.978261	4.608696
## 390	2.636364	8.445455	5.181818
## 391	2.510638	7.765957	4.851064
## 392	2.863636	8.068182	5.045455
## 393	2.611111	7.388889	4.277778
## 394	2.687500	7.500000	4.562500
## 395	2.647059	7.058824	3.941176
## 396	2.520833	7.562500	4.541667
## 397	2.565217	8.521739	NA
## 398	2.622222	8.311111	NA
## 399	2.437500	7.625000	NA
## 400	2.590909	7.863636	NA
## 401	2.500000	7.625000	NA
## 402	2.340426	7.021277	NA

## 403	2.333333	7.937500	NA
## 404	2.434783	7.282609	NA
## 405	2.720930	8.627907	NA
## 406	2.434783	7.086957	NA
## 407	1.307692	8.240385	4.735577
## 408	2.747619	7.895238	4.838095
## 409	2.745192	7.558942	4.822115
## 410	2.644743	7.480315	4.293654
## 411	3.009390	8.220657	5.000000
## 412	2.552995	7.539171	4.599078
## 413	2.945274	8.442786	5.094527
## 414	2.805970	8.721393	5.238806
## 415	2.897561	8.273171	5.141463
## 416	3.005236	9.078534	5.528796
## 417	2.387755	6.387755	4.642857
## 418	2.275000	6.751969	3.956693
## 419	2.636364	7.393939	4.181818
## 420	2.677165	7.696970	4.843713
## 421	2.559055	8.111111	4.844707
## 422	2.742330	8.413793	5.213141
## 423	2.559055	7.000000	4.304462
## 424	2.698008	8.352941	4.979157
## 425	2.731299	8.375000	5.610236
## 426	2.608268	8.125000	4.847441
##	hand.length/head.height	hand.width/head.height	hand.elbow/head.height
## 1	0.7369565	0.7891304	1.517391
## 2	0.8393665	0.8914027	2.061086
## 3	0.8333333	0.7777778	2.888889
## 4	0.7391304	0.8260870	1.695652
## 5	0.7692308	0.9230769	1.653846
## 6	0.8155556	0.9022222	1.673333
## 7	0.7577778	0.8355556	1.620000
## 8	0.7391304	0.8043478	1.565217
## 9	0.9000000	0.7000000	1.925000
## 10	0.7391304	0.8260870	1.682609
## 21	0.9042553	0.8670213	2.127660
## 22	0.7366255	0.7654321	1.895062
## 23	0.9398907	0.9590164	2.076503
## 24	0.8738095	0.9309524	2.111905
## 25	0.9005236	0.9267016	2.225131
## 26	0.8198198	0.8851351	1.945946
## 27	0.9073171	1.0731707	2.302439
## 28	0.7747748	0.8513514	1.986486
## 29	0.7622222	0.8511111	1.977778
## 30	0.8190955	0.8592965	2.027638
## 31	0.8175676	0.9256757	2.054054
## 32	0.7596154	0.8461538	1.711538
## 33	0.7410714	0.8482143	1.803571
## 34	0.8445946	0.9729730	2.081081
## 35	0.7638889	0.8541667	1.819444
## 36	0.8333333	0.9062500	2.020833
## 37	0.9583333	0.9625000	2.141667
## 38	0.8297101	0.9565217	1.981884
## 39	0.7357143	0.8607143	1.928571

## 40	0.8767123	0.9178082	2.102740
## 41	0.7785714	0.9214286	1.942857
## 75	0.9166667	1.0357143	2.166667
## 76	0.8750000	1.1250000	2.275000
## 77	0.8698980	1.1275510	2.278061
## 78	0.8888889	1.1111111	2.277778
## 79	0.8648649	1.1351351	2.270270
## 80	0.8571429	1.0952381	2.238095
## 81	0.8780488	1.1219512	2.292683
## 82	0.8888889	1.1111111	2.277778
## 83	0.8571429	1.0952381	2.238095
## 84	0.8571429	1.0952381	2.285714
## 85	0.8478261	0.9239130	1.760870
## 86	0.8780488	0.9268293	1.975610
## 87	0.7826087	0.7826087	1.717391
## 88	0.3636364	0.4545455	1.363636
## 89	0.8695652	0.9891304	1.021739
## 90	0.9750000	1.0500000	2.050000
## 91	0.6574074	0.7592593	1.666667
## 92	0.7708333	0.8958333	1.843750
## 93	0.8400000	0.4000000	1.880000
## 94	0.6111111	0.3981481	1.611111
## 95	0.7619048	0.4761905	1.809524
## 96	0.8750000	0.4583333	1.854167
## 97	0.8078947	0.8710526	1.192105
## 98	NA	NA	NaN
## 99	NA	NA	NaN
## 100	NA	NA	NaN
## 101	NA	NA	NaN
## 102	NA	NA	NaN
## 103	NA	NA	NaN
## 104	NA	NA	NaN
## 105	NA	NA	NaN
## 106	NA	NA	NaN
## 107	0.8033624	0.8586933	1.947010
## 108	0.7647059	0.5882353	1.867647
## 109	0.7948718	0.4871795	1.871593
## 110	0.8444444	0.6388889	NaN
## 111	0.5454545	0.5454545	NaN
## 112	0.8108108	0.7297297	NaN
## 113	0.8571429	0.8000000	NaN
## 114	0.7272727	0.5454545	NaN
## 115	0.8378378	0.6486486	NaN
## 116	0.6250000	0.5288462	NaN
## 117	0.8648649	1.0270270	1.918919
## 118	0.8750000	1.0000000	1.875000
## 119	0.7647059	0.8823529	1.735294
## 120	0.7352941	0.7941176	1.588235
## 121	0.6470588	0.7352941	1.470588
## 122	0.6764706	0.7352941	1.411765
## 123	0.8809524	1.0238095	1.928571
## 124	0.8478261	1.0434783	2.152174
## 125	0.6111111	0.6671041	1.555556
## 126	0.8720930	0.9883721	2.093023

## 127	0.7283465	NaN	1.887795
## 128	0.7772926	NaN	1.886463
## 129	0.7925311	NaN	1.950207
## 130	0.7467249	NaN	1.855895
## 131	0.7755906	NaN	1.925197
## 132	0.8958333	NaN	2.000000
## 133	0.7378277	NaN	1.891386
## 134	0.6355932	NaN	1.771186
## 135	0.7500000	NaN	1.927083
## 136	0.6034483	NaN	1.517241
## 227	0.7727273	0.8636364	1.750000
## 228	0.7916667	0.8645833	1.687500
## 229	0.8953488	0.8953488	1.872093
## 230	0.8837209	0.8720930	1.930233
## 231	0.9204545	1.0909091	2.238636
## 232	0.9375000	0.9750000	2.012500
## 233	0.8636364	0.8863636	1.988636
## 234	0.8260870	0.8804348	1.891304
## 235	0.6125000	0.6625000	1.262500
## 236	0.8695652	0.9239130	1.967391
## 237	0.7560976	0.9024390	2.073171
## 238	0.8152174	0.8478261	2.054348
## 239	0.8250000	1.0250000	2.150000
## 240	0.8297872	1.0000000	2.106383
## 241	0.9090909	0.9090909	2.045455
## 242	0.8750000	0.9166667	1.916667
## 243	0.7904762	0.8095238	1.888095
## 244	0.7500000	0.8333333	1.895833
## 245	0.8000000	0.9500000	2.080000
## 246	0.7727273	0.3181818	1.727273
## 277	0.8113208	0.9150943	1.773585
## 278	0.9000000	1.0250000	1.975000
## 279	1.0000000	1.1041667	1.791667
## 280	0.8913043	1.0869565	1.934783
## 281	0.6734694	0.8163265	1.591837
## 282	0.7600000	0.8400000	1.820000
## 283	0.7307692	0.8365385	1.730769
## 284	0.8627451	0.9803922	1.784314
## 285	0.7954545	0.8750000	1.681818
## 286	0.9166667	0.9791667	1.875000
## 297	0.8125000	0.8281250	1.843750
## 298	0.8016216	0.8648649	2.000000
## 299	0.9060606	0.9284848	1.969697
## 300	1.0000000	1.0969697	2.207879
## 301	0.9666667	1.1000000	2.316667
## 302	0.8333333	0.8750000	2.097222
## 303	0.8403361	0.8751501	1.926771
## 304	0.8641975	0.9589506	2.092593
## 305	0.9843750	1.0625000	2.515625
## 306	0.8484848	0.9090909	1.909091
## 307	0.8068182	0.9090909	1.954545
## 308	1.0000000	1.0972222	2.333333
## 309	0.8684211	0.9736842	2.052632
## 310	0.7083333	0.6875000	1.645833

## 311	0.8222222	0.8666667	1.866667
## 312	0.6785714	0.7232143	1.562500
## 313	0.9000000	0.9375000	2.025000
## 314	0.5689655	0.6724138	1.301724
## 315	0.7282609	0.8586957	1.869565
## 316	0.7888889	0.8666667	1.044444
## 317	0.7531646	0.8670886	1.829114
## 318	0.8965517	1.1034483	2.172414
## 319	0.7000000	0.7875000	1.700000
## 320	0.6578947	0.7368421	1.552632
## 321	10.9843750	0.8906250	2.250000
## 322	0.8870968	0.8225806	1.967742
## 323	0.8235294	0.8382353	1.867647
## 324	0.9062500	1.0000000	2.046875
## 325	0.9333333	0.9333333	2.166667
## 326	0.9090909	0.9696970	2.348485
## 327	0.7727273	0.8863636	1.795455
## 328	0.8125000	0.8541667	1.739583
## 329	0.9438202	1.0000000	2.297753
## 330	0.9244186	1.0058140	2.174419
## 331	0.8170732	0.9512195	1.975610
## 332	0.7954545	0.9318182	2.022727
## 333	0.9125000	0.9750000	2.300000
## 334	0.8571429	0.8768473	2.118227
## 335	0.9000000	1.0000000	2.175000
## 337	0.8863636	0.9772727	2.045455
## 338	0.8372093	0.8604651	1.906977
## 339	0.7608696	0.6956522	1.456522
## 340	0.8437500	0.8125000	1.687500
## 341	0.8260870	0.8260870	1.717391
## 342	0.8260870	0.9565217	1.869565
## 343	0.8500000	0.9250000	1.862500
## 344	0.8191489	0.8936170	1.765957
## 345	0.7083333	0.7083333	1.479167
## 346	0.7391304	0.7173913	1.608696
## 347	0.8108108	1.0810811	2.094595
## 348	0.4583333	0.5083333	1.066667
## 350	0.9187500	0.9812500	2.018750
## 351	1.0466667	1.1866667	2.413333
## 352	0.5769231	0.6442308	1.346154
## 353	0.8787879	1.0303030	2.136364
## 354	0.8055556	0.9166667	1.833333
## 355	0.9371429	1.1428571	2.068571
## 356	0.8529412	0.9411765	2.000000
## 357	0.8761905	0.9928571	2.245238
## 358	0.9950000	1.0175000	2.092500
## 359	0.9780488	1.0731707	2.175610
## 360	0.9057143	1.0085714	2.262857
## 361	0.8252427	0.9538835	2.075243
## 362	0.8476190	0.9476190	2.088095
## 363	0.7391304	0.8717391	1.921739
## 364	0.9000000	1.0119048	2.164286
## 365	0.9302326	1.0511628	2.353488
## 366	1.0270270	1.1621622	2.162162

## 367	0.8837209	1.0186047	2.069767
## 368	0.8640351	0.9473684	2.087719
## 369	0.7818182	0.8863636	1.631818
## 370	0.7560000	0.8440000	1.660000
## 371	0.7772727	0.9227273	1.886364
## 372	0.7572016	0.8353909	1.870370
## 373	0.7142857	0.8571429	1.864286
## 374	0.7826087	0.9565217	1.760870
## 375	0.6838710	0.7129032	1.501613
## 376	0.5716667	0.6766667	1.398333
## 377	0.9333333	1.0000000	2.266667
## 378	0.8386667	0.8000000	2.033333
## 379	0.9655172	0.9137931	2.362069
## 380	0.9642857	0.8571429	2.392857
## 381	1.0862069	1.1896552	2.534483
## 382	1.0000000	1.0294118	2.132353
## 383	1.0294118	1.0588235	2.191176
## 384	0.8064516	0.9193548	1.935484
## 385	0.7222222	0.6666667	1.722222
## 386	0.9354839	1.0000000	2.322581
## 387	0.7800000	0.8800000	1.540000
## 388	0.8888889	0.8955556	1.855556
## 389	0.8586957	0.9782609	1.869565
## 390	0.8977273	1.0204545	2.063636
## 391	0.8680851	0.9319149	1.978723
## 392	0.8954545	1.0454545	2.011364
## 393	0.8055556	1.0000000	2.000000
## 394	0.8750000	0.9375000	2.000000
## 395	0.8529412	0.8088235	1.911765
## 396	0.8062500	0.7958333	1.739583
## 397	0.8260870	1.0434783	2.130435
## 398	0.8666667	0.9111111	2.066667
## 399	0.8750000	0.9375000	1.979167
## 400	0.7727273	0.9545455	1.954545
## 401	0.8750000	1.0000000	1.875000
## 402	0.7340426	0.9042553	1.734043
## 403	0.8333333	0.8333333	NaN
## 404	0.7826087	0.7826087	1.869565
## 405	0.8837209	1.0232558	2.139535
## 406	0.7391304	0.8260870	1.739130
## 407	0.8341346	1.0480769	2.153846
## 408	0.8261905	0.9476190	1.990476
## 409	0.8100962	0.8149038	1.896635
## 410	0.8221399	0.9240389	1.982399
## 411	0.9061033	1.0892019	2.117371
## 412	0.7027650	0.9055300	1.877880
## 413	0.8184080	0.9054726	2.074627
## 414	0.8283582	0.9427861	2.199005
## 415	8.5463415	1.0414634	2.043902
## 416	0.9214660	0.9345550	2.264398
## 417	0.8265306	0.9020408	1.826531
## 418	0.7381890	0.7677165	1.815945
## 419	0.9349797	0.9469100	1.947984
## 420	0.8863636	0.9015152	2.060606

## 421	0.8750000	0.9791667	1.951389
## 422	0.9224138	1.0344828	2.155172
## 423	0.8000000	0.9083333	1.733333
## 424	0.9117647	1.0588235	1.970588
## 425	0.8750000	0.8906250	1.906250
## 426	0.8593750	0.9218750	1.906250
##	elbow.armpit/head.height	arm.reach/head.height	foot.length/head.height
## 1	0.9782609	8.182609	0.9413043
## 2	1.1764706	10.090498	1.0407240
## 3	1.8333333	10.166667	1.1111111
## 4	1.2608696	8.782609	1.0000000
## 5	1.0769231	8.884615	0.9615385
## 6	1.4000000	9.155556	1.1288889
## 7	1.1111111	6.671111	0.9755556
## 8	1.0652174	8.347826	0.9565217
## 9	1.0000000	1.900000	1.3000000
## 10	1.2043478	8.743478	1.0130435
## 21	1.5957447	2.792553	1.1595745
## 22	2.3456790	2.921811	1.0246914
## 23	1.1748634	3.142077	1.2431694
## 24	1.3333333	3.090476	1.1261905
## 25	1.2172775	3.455497	1.1675393
## 26	1.3355856	2.702703	1.0810811
## 27	1.5804878	3.253659	1.2780488
## 28	1.2612613	2.925676	1.0653153
## 29	1.0666667	2.888889	0.9666667
## 30	1.2311558	2.824121	1.1130653
## 31	1.0540541	9.729730	1.2162162
## 32	1.0961538	8.346154	0.9807692
## 33	1.2142857	8.178571	1.0535714
## 34	1.3513514	9.445946	1.1351351
## 35	1.3055556	8.847222	0.9722222
## 36	1.4791667	9.385417	1.2395833
## 37	1.4958333	10.016667	1.2583333
## 38	1.4275362	8.717391	1.1376812
## 39	1.3285714	9.114286	1.0142857
## 40	1.3424658	9.671233	1.1232877
## 41	1.3285714	9.050000	1.0714286
## 75	1.4523810	10.750000	1.2619048
## 76	1.4517717	7.504921	1.2500000
## 77	1.4285714	7.515306	1.2244898
## 78	1.4722222	7.500000	1.2500000
## 79	1.4324324	7.486486	1.2432432
## 80	1.4523810	7.428571	1.2380952
## 81	1.4390244	7.536585	1.2682927
## 82	1.4722222	7.555556	1.2777778
## 83	1.4523810	7.428571	1.2380952
## 84	1.4523810	7.476190	1.2380952
## 85	1.1086957	9.771739	1.2173913
## 86	1.2439024	10.048780	1.1219512
## 87	0.8478261	8.673913	1.0000000
## 88	1.0454545	10.636364	0.9090909
## 89	0.6956522	9.695652	1.1630435
## 90	1.2000000	10.400000	1.2625000

## 91	0.7777778	7.814815	0.8888889
## 92	1.2083333	9.312500	1.0729167
## 93	2.8400000	9.720000	1.1600000
## 94	1.0740741	4.462963	0.9259259
## 95	1.0952381	3.702381	0.6428571
## 96	1.2500000	9.895833	1.1875000
## 97	1.2631579	9.078947	1.0394737
## 98	NaN	NaN	NaN
## 99	NaN	NaN	NaN
## 100	NaN	NaN	NaN
## 101	NaN	NaN	NaN
## 102	NaN	NaN	NaN
## 103	NaN	NaN	NaN
## 104	NaN	NaN	NaN
## 105	NaN	NaN	NaN
## 106	NaN	NaN	NaN
## 107	2.9189189	3.054054	1.0405405
## 108	1.2500000	2.852941	1.0588235
## 109	1.0384615	2.948718	1.1153846
## 110	NaN	NaN	NaN
## 111	NaN	NaN	NaN
## 112	NaN	NaN	NaN
## 113	NaN	NaN	NaN
## 114	NaN	NaN	NaN
## 115	NaN	NaN	NaN
## 116	NaN	NaN	NaN
## 117	1.4054054	10.162162	1.2432432
## 118	1.3125000	10.125000	1.1250000
## 119	1.0588235	8.617647	1.0588235
## 120	0.7941176	8.529412	1.0000000
## 121	1.0588235	7.882353	0.9411765
## 122	1.0588235	7.558824	0.9411765
## 123	NaN	10.380952	1.3333333
## 124	NaN	10.000000	1.2608696
## 125	0.8888889	7.777778	0.9444444
## 126	1.2093023	7.604651	1.2441860
## 127	1.1377953	2.620079	0.9763780
## 128	1.0414847	2.689956	1.1091703
## 129	1.0933610	2.622407	1.2655602
## 130	1.0000000	2.676856	1.0589520
## 131	1.0000000	2.635827	1.1122047
## 132	1.2083333	NaN	1.2500000
## 133	1.2247191	NaN	1.0112360
## 134	1.1016949	2.237288	0.8813559
## 135	1.0833333	2.468750	1.0208333
## 136	1.0000000	2.215517	0.8793103
## 227	1.2045455	9.477273	1.0795455
## 228	0.9270833	8.937500	1.1458333
## 229	1.1046512	10.127907	1.1976744
## 230	1.1860465	10.151163	1.1627907
## 231	1.2954545	10.647727	1.3636364
## 232	1.6125000	10.212500	1.3625000
## 233	1.0340909	10.125000	1.1022727
## 234	0.9130435	10.000000	1.1630435

## 235	0.5000000	5.362500	0.7375000
## 236	1.0217391	9.619565	1.0978261
## 237	1.1463415	9.718598	1.1463415
## 238	1.0652174	9.317935	1.1521739
## 239	1.2750000	10.112375	1.1750000
## 240	1.0000000	9.795213	1.1276596
## 241	1.4090909	9.636364	1.1818182
## 242	1.2916667	9.083333	1.1250000
## 243	1.0023810	9.302381	1.1119048
## 244	1.1250000	9.181042	1.4791667
## 245	1.0800000	9.120000	1.2000000
## 246	0.8181818	9.409091	1.0454545
## 277	1.0566038	8.811321	1.0754717
## 278	1.4000000	10.300000	1.2625000
## 279	1.1666667	9.364583	1.1666667
## 280	1.3260870	10.130435	1.2173913
## 281	0.9795918	8.204082	0.9387755
## 282	1.0200000	9.580000	1.0400000
## 283	0.9230769	8.269231	0.9615385
## 284	1.1176471	9.098039	1.1176471
## 285	1.1363636	9.000000	1.1136364
## 286	1.1145833	9.677083	1.1250000
## 297	1.2031250	9.562500	1.0725000
## 298	1.4232432	9.601351	1.1524324
## 299	1.1969697	9.161212	1.0496970
## 300	1.6109091	10.643939	1.1984848
## 301	1.7000000	10.666667	1.2666667
## 302	1.5000000	10.263889	1.1388889
## 303	1.0954382	9.638655	1.0804322
## 304	1.3888889	10.109568	1.1827160
## 305	1.8750000	11.828125	1.3593750
## 306	1.1818182	10.000000	1.0757576
## 307	1.0000000	9.840909	1.1818182
## 308	1.2500000	11.486111	1.3888889
## 309	1.5000000	10.342105	1.2105263
## 310	0.8333333	8.000000	1.0000000
## 311	1.0666667	9.044444	1.0666667
## 312	0.7678571	7.642857	0.8928571
## 313	1.0500000	9.725000	1.2000000
## 314	0.6724138	6.258621	0.7758621
## 315	0.9347826	8.521739	0.9782609
## 316	0.9111111	8.933333	1.0666667
## 317	1.3164557	8.987342	1.0126582
## 318	1.3448276	11.862069	1.2758621
## 319	1.1000000	8.900000	1.0500000
## 320	0.8421053	8.175789	0.8947368
## 321	1.2187500	10.875000	1.2343750
## 322	1.2580645	9.903226	1.2096774
## 323	0.9558824	8.823529	1.1323529
## 324	1.3437500	10.187500	1.2656250
## 325	1.4666667	10.733333	1.3000000
## 326	1.6363636	11.318182	1.3484848
## 327	1.0681818	9.068182	0.9886364
## 328	1.0416667	8.812500	1.0520833

## 329	1.6404494	10.988764	1.2752809
## 330	1.3372093	10.901163	1.2441860
## 331	1.0487805	9.682927	1.1463415
## 332	1.1704545	10.636364	1.0681818
## 333	1.5250000	4.200000	1.3250000
## 334	1.4039409	10.061576	1.0985222
## 335	1.5562500	10.922500	1.2212500
## 337	1.0227273	9.318182	1.1818182
## 338	1.0697674	9.069767	1.0813953
## 339	0.8913043	7.478261	0.9565217
## 340	0.8541667	8.187500	0.9895833
## 341	0.8913043	8.239130	1.0217391
## 342	0.8695652	9.239130	1.1304348
## 343	1.0250000	8.975000	1.0500000
## 344	0.8617021	8.382979	1.0531915
## 345	0.7916667	7.666667	0.9479167
## 346	0.8695652	7.891304	1.0000000
## 347	0.9324324	9.986486	1.1891892
## 348	0.6666667	5.242667	0.6250000
## 350	1.2687500	10.750000	1.2812500
## 351	1.5066667	11.973333	1.4133333
## 352	0.8173077	6.115385	0.7019231
## 353	1.6969697	10.712121	1.1212121
## 354	0.8888889	9.111111	1.0833333
## 355	1.2057143	10.622857	1.3314286
## 356	1.0294118	10.000000	1.0735294
## 357	1.5000000	10.571429	1.2547619
## 358	1.5250000	11.275000	1.2750000
## 359	1.6585366	11.073171	1.2951220
## 360	1.5885714	11.134286	1.2314286
## 361	1.4126214	10.177184	1.1747573
## 362	1.4285714	9.571429	1.1523810
## 363	1.3043478	9.423913	1.0608696
## 364	1.5119048	10.142857	1.2261905
## 365	1.6162791	11.046512	1.3139535
## 366	1.1486486	11.810811	1.4054054
## 367	1.1930233	9.716279	1.1302326
## 368	1.1710526	10.129386	1.1710526
## 369	1.1818182	8.997727	1.0000000
## 370	1.0160000	8.480000	1.0000000
## 371	1.0977273	9.418182	1.0977273
## 372	1.0185185	9.323045	1.2551440
## 373	1.0047619	9.545238	1.0547619
## 374	1.0652174	9.260870	1.1521739
## 375	0.6548387	6.854839	0.8338710
## 376	1.1850000	7.073333	0.9166667
## 377	1.2333333	10.800000	1.3766667
## 378	1.2440000	10.333333	1.1666667
## 379	1.5172414	11.517241	1.3103448
## 380	1.4285714	12.642857	1.4285714
## 381	1.9827586	10.810345	1.4310345
## 382	1.7647059	9.308824	1.2352941
## 383	1.8823529	9.602941	1.2941176
## 384	1.1129032	9.870968	1.1129032

## 385	1.5000000	6.666667	0.8611111
## 386	1.2258065	10.838710	1.3548387
## 387	1.5400000	8.440000	0.9600000
## 388	1.1000000	9.700000	1.1222222
## 389	0.9891304	9.641304	1.1304348
## 390	1.4090909	10.863636	1.1954545
## 391	1.1382979	9.776596	1.1085106
## 392	1.1818182	10.272727	1.2090909
## 393	1.0277778	9.138889	1.1805556
## 394	0.9375000	9.593750	1.1250000
## 395	1.1470588	8.676471	1.0000000
## 396	1.0833333	9.239583	1.0625000
## 397	1.0000000	10.608696	1.1739130
## 398	0.9777778	10.666667	1.1555556
## 399	1.0416667	9.833333	1.0833333
## 400	0.9545455	9.818182	1.0909091
## 401	0.8541667	9.312500	1.1250000
## 402	0.9042553	8.808511	0.9893617
## 403	1.2083333	9.833333	1.1666667
## 404	0.8913043	8.956522	1.0326087
## 405	1.1860465	10.627907	1.2325581
## 406	0.8695652	9.130435	1.0000000
## 407	1.3533654	10.084135	1.0889423
## 408	1.4452381	9.809524	1.0404762
## 409	1.1322115	9.536058	1.0649038
## 410	1.2297360	9.247337	1.7948124
## 411	1.7159624	10.438967	1.3568075
## 412	1.3479263	9.396313	1.0023041
## 413	1.4900498	10.333333	1.2014925
## 414	1.6069652	10.509950	1.2761194
## 415	1.5634146	10.539024	1.2317073
## 416	1.5732984	11.005236	1.3036649
## 417	0.9285714	9.489796	1.1734694
## 418	1.0531496	8.600000	0.8759843
## 419	1.0796946	9.590909	1.1636364
## 420	0.9242424	9.689394	1.0303030
## 421	1.1458333	10.090278	1.2083333
## 422	1.2413793	11.293103	1.3017241
## 423	0.9333333	8.800000	1.1083333
## 424	1.3235294	10.529412	1.1764706
## 425	1.4062500	10.781250	1.1875000
## 426	1.3906250	10.468750	1.0625000
##	floor.kneepit/head.height floor.hip/head.height floor.armpit/head.height		
## 1	1.630435	3.815217	5.369565
## 2	2.273756	4.626697	6.368778
## 3	2.277778	5.666667	7.722222
## 4	1.695652	3.826087	5.521739
## 5	1.615385	3.807692	5.538462
## 6	1.877778	4.266667	5.835556
## 7	1.711111	3.977778	5.422222
## 8	1.673913	3.826087	5.347826
## 9	2.250000	4.800000	6.750000
## 10	1.673913	3.826087	5.521739
## 21	2.175532	4.728723	6.196809

## 22	2.109053	4.320988	5.919753
## 23	2.292350	4.926230	6.494536
## 24	2.214286	4.921429	6.071429
## 25	2.282723	5.209424	6.596859
## 26	2.047297	4.150901	5.518018
## 27	2.207317	4.997561	6.902439
## 28	2.022523	4.290541	5.945946
## 29	2.037778	4.506667	5.784444
## 30	2.060302	4.804020	6.025126
## 31	2.067568	4.445946	6.243243
## 32	1.990385	3.942308	5.384615
## 33	1.776786	3.875000	5.071429
## 34	2.148649	4.614865	6.155405
## 35	1.902778	4.250000	5.736111
## 36	2.020833	4.447917	5.895833
## 37	2.600000	4.900000	6.583333
## 38	2.021739	4.362319	6.333333
## 39	1.950000	4.200000	5.771429
## 40	2.157589	4.609589	6.287671
## 41	1.950000	4.307143	5.957143
## 75	2.059524	4.464286	6.428571
## 76	2.247047	4.873524	6.690453
## 77	2.244898	4.880102	6.696429
## 78	2.250000	4.888889	6.666667
## 79	2.243243	4.864865	6.648649
## 80	2.238095	4.809524	6.619048
## 81	2.243902	4.878049	6.731707
## 82	2.277778	4.916667	6.777778
## 83	2.238095	4.809524	6.619048
## 84	2.238095	4.833333	6.619048
## 85	2.021739	4.608696	5.956522
## 86	2.158537	4.914634	6.597561
## 87	1.717391	3.576087	5.282609
## 88	1.954545	4.727273	6.318182
## 89	2.130435	4.369565	5.630435
## 90	2.250000	5.100000	6.400000
## 91	1.555556	3.481481	4.814815
## 92	2.041667	4.187500	5.708333
## 93	2.240000	4.120000	5.640000
## 94	1.888889	3.425926	5.166667
## 95	2.000000	4.035714	5.940476
## 96	2.208333	4.708333	6.000000
## 97	1.894737	3.894737	5.473684
## 98	NaN	NaN	NaN
## 99	NaN	NaN	NaN
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## 101	NaN	NaN	NaN
## 102	NaN	NaN	NaN
## 103	NaN	NaN	NaN
## 104	NaN	NaN	NaN
## 105	NaN	NaN	NaN
## 106	NaN	NaN	NaN
## 107	2.054054	4.135135	5.675676
## 108	2.117647	4.691176	5.764706

## 109	2.000000	3.961538	5.564103
## 110	NaN	NaN	NaN
## 111	NaN	NaN	NaN
## 112	NaN	NaN	NaN
## 113	NaN	NaN	NaN
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## 115	NaN	NaN	NaN
## 116	NaN	NaN	NaN
## 117	1.945946	4.432432	6.486486
## 118	1.875000	4.531250	6.348425
## 119	1.617647	4.176471	5.470588
## 120	1.735294	4.176471	5.205882
## 121	1.647059	3.676471	4.911765
## 122	1.529412	3.705882	4.823529
## 123	2.380952	NaN	6.428571
## 124	2.347826	NaN	6.217391
## 125	1.666667	3.444444	4.888889
## 126	2.023256	4.593023	6.906977
## 127	2.098425	NaN	4.750000
## 128	1.956332	NaN	4.631004
## 129	2.041494	NaN	4.927386
## 130	1.816594	NaN	4.548035
## 131	2.149606	NaN	4.950787
## 132	2.083333	NaN	5.958333
## 133	1.790262	NaN	4.638577
## 134	1.728814	NaN	4.067797
## 135	1.968750	NaN	4.718750
## 136	1.525862	NaN	3.905172
## 227	2.068182	4.568182	5.738636
## 228	2.041667	4.229167	5.739583
## 229	2.197674	4.639535	6.279070
## 230	2.127907	4.674419	6.325581
## 231	2.250000	4.988636	6.863636
## 232	2.475000	5.025000	6.587500
## 233	2.204545	4.681818	6.011364
## 234	2.163043	4.152174	5.989130
## 235	1.175000	2.337500	3.475000
## 236	2.195652	4.500000	6.271739
## 237	2.048780	4.560976	5.634146
## 238	2.000000	4.478261	5.478261
## 239	2.000000	4.700000	6.175000
## 240	2.085106	4.382979	5.680851
## 241	2.272727	4.636364	5.909091
## 242	2.083333	4.375000	5.541667
## 243	1.923810	4.578571	5.838095
## 244	3.083333	4.208333	5.541667
## 245	2.320000	4.160000	5.880000
## 246	2.181818	1.590909	4.818182
## 277	1.660377	3.792453	5.377358
## 278	2.025000	4.825000	6.725000
## 279	1.854167	4.343750	5.916667
## 280	2.043478	4.413043	6.304348
## 281	1.693878	3.969388	5.204082
## 282	1.940000	4.320000	5.760000

## 283	1.673077	3.673077	5.221154
## 284	1.686275	3.745098	5.568627
## 285	1.772727	4.295455	5.727273
## 286	1.833333	4.083333	5.750000
## 297	1.838125	4.359375	6.072500
## 298	2.130270	4.355676	5.783784
## 299	1.974545	4.127273	5.903636
## 300	2.159091	4.777576	6.507576
## 301	2.266667	4.933333	6.866667
## 302	2.277778	4.708333	6.750000
## 303	2.040816	4.102641	6.099940
## 304	2.086420	4.999383	6.564815
## 305	2.500000	5.156250	7.203125
## 306	2.045455	4.585455	6.242424
## 307	2.170455	4.363636	5.863636
## 308	2.694444	5.263889	7.027778
## 309	2.289474	4.657895	6.289474
## 310	2.000000	3.729167	4.604167
## 311	2.200000	4.266667	5.622222
## 312	1.678571	3.339286	4.642857
## 313	2.350000	4.787500	6.050000
## 314	1.560345	3.215517	4.206897
## 315	2.065217	4.043478	5.304348
## 316	2.177778	4.355556	5.844444
## 317	1.683544	3.569620	6.012658
## 318	2.327586	5.241379	7.103448
## 319	1.800000	4.150000	5.200000
## 320	1.578947	3.631579	4.842105
## 321	2.078125	5.109375	6.968750
## 322	2.129032	4.048387	5.870968
## 323	1.911765	4.176471	5.764706
## 324	2.281250	5.031250	6.750000
## 325	2.533333	5.066667	6.133333
## 326	2.303030	5.000000	7.166667
## 327	1.625000	4.204545	5.590909
## 328	1.833333	4.166667	5.645833
## 329	2.314607	4.724719	7.033708
## 330	2.436047	5.069767	6.941860
## 331	1.963415	4.134146	6.341463
## 332	2.159091	4.659091	6.522727
## 333	2.275000	5.037500	6.350000
## 334	1.970443	4.753695	6.539409
## 335	1.962500	4.575000	6.693750
## 337	2.068182	4.409091	5.977273
## 338	1.953488	4.093023	5.837209
## 339	1.652174	3.413043	4.695652
## 340	1.833333	3.583333	4.958333
## 341	1.760870	3.630435	5.326087
## 342	2.130435	4.195652	5.847826
## 343	2.150000	3.950000	5.575000
## 344	1.914894	3.808511	5.127660
## 345	1.760417	3.708333	4.895833
## 346	1.717391	3.804348	4.869565
## 347	2.270270	4.216216	6.135135

## 348	1.108333	2.366667	3.300000
## 350	2.178125	5.193750	6.637500
## 351	2.626667	5.626667	7.493333
## 352	1.336538	2.778846	3.846154
## 353	2.454545	4.772727	6.848485
## 354	1.972222	4.027778	5.583333
## 355	2.148571	5.057143	6.925714
## 356	2.176471	4.573529	6.117647
## 357	2.147619	4.511905	6.714286
## 358	2.250000	4.650000	7.105000
## 359	2.343902	4.585366	6.975610
## 360	2.242857	4.685714	6.814286
## 361	2.002427	4.320388	6.138350
## 362	2.000000	4.004762	5.838095
## 363	2.130435	3.821739	4.528261
## 364	1.988095	4.369048	6.309524
## 365	2.209302	4.476744	6.837209
## 366	2.270270	5.027027	7.027027
## 367	2.141860	4.500000	5.934884
## 368	2.267544	4.526316	5.975877
## 369	1.863636	4.136364	5.440909
## 370	1.774000	3.940000	5.260000
## 371	1.956818	4.186364	5.868182
## 372	3.026749	4.181070	5.932099
## 373	2.185714	4.354762	6.285714
## 374	1.869565	4.021739	5.489130
## 375	1.629032	3.050000	4.306452
## 376	1.523333	3.133333	4.381667
## 377	2.216667	4.666667	7.433333
## 378	2.133333	4.400000	6.000000
## 379	2.660690	4.965517	7.034483
## 380	2.714286	5.428571	6.928571
## 381	2.431034	4.758621	7.086207
## 382	2.073529	3.823529	5.926471
## 383	2.117647	3.926471	6.044118
## 384	2.048387	4.306452	6.645161
## 385	2.027778	3.944444	5.055556
## 386	2.096774	4.451613	7.096774
## 387	1.860000	3.830000	5.080000
## 388	2.277778	4.500000	5.911111
## 389	1.913043	4.347826	6.293478
## 390	2.465909	5.022727	7.068182
## 391	2.159574	4.808511	6.234043
## 392	2.340909	4.875000	6.545455
## 393	2.111111	4.250000	6.000000
## 394	2.187500	4.375000	6.125000
## 395	1.882353	3.852941	5.735294
## 396	2.125000	4.437500	5.729167
## 397	2.000000	4.478261	6.260870
## 398	2.000000	4.488889	6.444444
## 399	1.916667	4.395833	5.875000
## 400	2.045455	4.500000	6.522727
## 401	2.041667	4.208333	6.125000
## 402	1.723404	4.063830	5.191489

```
## 403      1.958333      3.989583      6.083333
## 404      1.869565      4.304348      5.521739
## 405      2.488372      4.616279      6.372093
## 406      1.869565      4.173913      5.217391
## 407      2.012019      4.387019      5.930288
## 408      2.011905      4.754762      6.057143
## 409      2.502404      4.425481      6.072115
## 410      1.137101      4.481241      5.687818
## 411      2.704225      4.746479      6.784038
## 412      1.887097      4.543779      5.755760
## 413      2.482587      4.509950      6.482587
## 414      2.527363      4.368159      6.554726
## 415      2.651220      4.717073      6.826829
## 416      2.502618      4.801047      6.861257
## 417      1.887755      4.591837      5.908163
## 418      1.795669      3.651575      5.531496
## 419      1.950966      4.449535      5.976139
## 420      1.969697      4.523503      5.878788
## 421      1.972222      4.833333      5.888889
## 422      2.206897      5.379310      6.586207
## 423      1.900000      4.133333      5.216667
## 424      1.941176      4.691176      6.205882
## 425      2.125000      4.718750      6.593750
## 426      1.937500      4.687500      6.234375
```

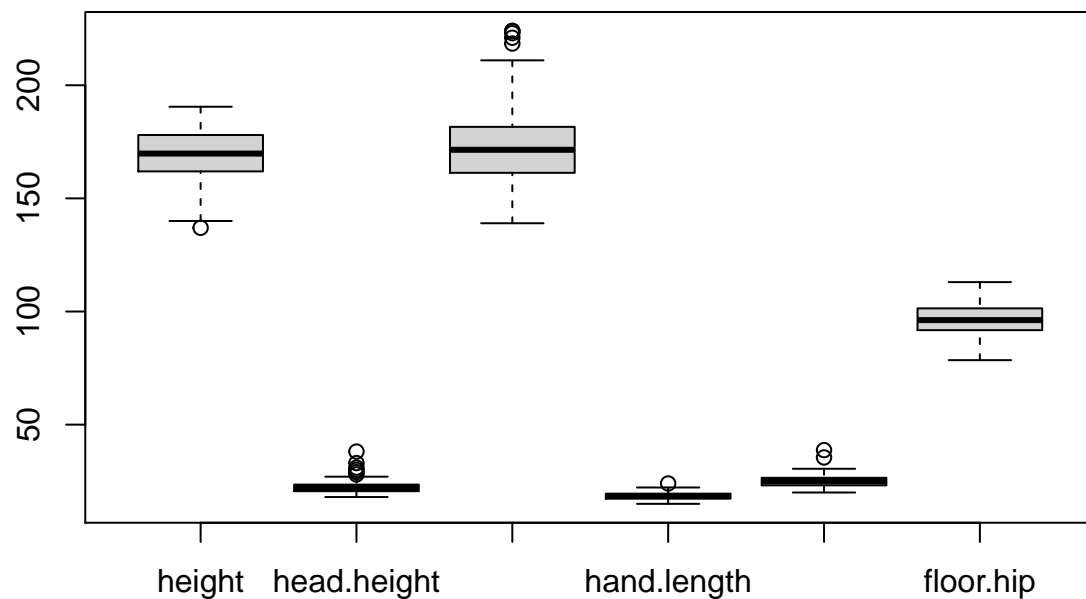
```
# height, head.height, arm.span, floor.hip, foot.length, hand.length
sample.data <- v2.df[,c(1:4, 6, 13, 20, 25, 27, 29:31, 36, 37, 39, 41, 46, 48)]
# age over 18
sample.data <- sample.data[sample.data$age >=18,]
summary(sample.data)
```

```
## data_collector      person_id      height      head.height
## Length:223      Length:223      Min. :137.0      Min. :18.00
## Class :character      Class :character      1st Qu.:161.9      1st Qu.:20.95
## Mode :character      Mode :character      Median :170.0      Median :22.21
##                      Mean :169.9      Mean :22.50
##                      3rd Qu.:178.0      3rd Qu.:23.50
##                      Max. :191.1      Max. :38.10
##                      NA's :9      NA's :7
## arm.span      age      hand.length      foot.length
## Min. : 61.5      Min. :18.00      Min. : 8.00      Min. :13.50
## 1st Qu.:160.9      1st Qu.:23.00      1st Qu.: 17.20      1st Qu.:23.25
## Median :170.2      Median :29.00      Median : 18.40      Median :25.00
## Mean :170.1      Mean :37.56      Mean : 19.95      Mean :25.04
## 3rd Qu.:180.7      3rd Qu.:52.00      3rd Qu.: 19.50      3rd Qu.:26.50
## Max. :224.0      Max. :94.00      Max. :223.20      Max. :38.75
## NA's :8      NA's :14
## floor.hip      my.ethnicity my.gender new.units      height/height
## Min. : 35.00      w :164      f:105      Length:223      Min. :1
## 1st Qu.: 91.75      a : 37      m:117      Class :character      1st Qu.:1
## Median : 96.15      h : 5      o: 1      Mode :character      Median :1
## Mean : 96.16      b : 3      Mode :character      Mean :1
## 3rd Qu.:101.40      ca : 3      3rd Qu.:1
## Max. :113.00      pi : 3      Max. :1
```

```
## NA's :26      (Other): 8      NA's :9
## head.height/height arm.span/height hand.length/height foot.length/height
## Min. :0.1071   Min. :0.3790   Min. :0.04665   Min. :0.08385
## 1st Qu.:0.1214   1st Qu.:0.9841   1st Qu.:0.10393   1st Qu.:0.14130
## Median :0.1301   Median :1.0070   Median :0.10778   Median :0.14611
## Mean :0.1323   Mean :1.0007   Mean :0.11739   Mean :0.14713
## 3rd Qu.:0.1398   3rd Qu.:1.0286   3rd Qu.:0.11250   3rd Qu.:0.15240
## Max. :0.2239   Max. :1.2264   Max. :1.25536   Max. :0.24188
## NA's :16      NA's :10      NA's :9      NA's :16
## floor.hip/height
## Min. :0.2035
## 1st Qu.:0.5471
## Median :0.5674
## Mean :0.5676
## 3rd Qu.:0.5938
## Max. :0.7003
## NA's :26
```

```
# getting rid of outliers.
```

```
sample.data <- sample.data[sample.data$arm.span>100&sample.data$hand.length<50&sample.data$floor.hip>50]
boxplot(sample.data[,c(3:5,7:9)])$out
```



```
## [1] 137.00 28.00 29.00 38.10 33.02 31.00 30.00 218.44 224.00 221.00
## [11] 223.00 224.00 24.00 35.50 38.75
```

```
sample.data <- sample.data[~which(is.na(sample.data$data_collector)), ]
sample.data
```

##	data_collector	person_id
## 1	9c2633aaa2d945bb10608ad13c3a11a9	1cef05bce7879e0ffee01b0cb8d78c32
## 2	9c2633aaa2d945bb10608ad13c3a11a9	7ccb01feee114272ab008022a14ededb
## 3	9c2633aaa2d945bb10608ad13c3a11a9	045e02304948042a658b4faa4bd8e54e
## 4	9c2633aaa2d945bb10608ad13c3a11a9	51e383ff163861b0e2fc71e939a5b118
## 5	9c2633aaa2d945bb10608ad13c3a11a9	6d672001f80f375570c44439c540bebf
## 6	9c2633aaa2d945bb10608ad13c3a11a9	98569fbc2cb9141f60d0ae5cfa7501cb
## 7	9c2633aaa2d945bb10608ad13c3a11a9	8d98590f4401d70a1d0a04293499b87c
## 8	9c2633aaa2d945bb10608ad13c3a11a9	a9b12538812f18facbfcdb5f2c12663b
## 9	9c2633aaa2d945bb10608ad13c3a11a9	7a87fa2f3e4e4ca864a254fef98ecdc0
## 10	9c2633aaa2d945bb10608ad13c3a11a9	8e231231fb1ab2d42c266670295eee16
## 21	6734f5f4f223d589dc4ff361a310c155	13e647076a48ced264cd8452175c2e15
## 22	6734f5f4f223d589dc4ff361a310c155	1088af35708a5b36f1d4e2bb37acdcb7
## 23	6734f5f4f223d589dc4ff361a310c155	e28999163456cff48b783a89fad8c6d9
## 24	6734f5f4f223d589dc4ff361a310c155	09933344d53a61bf9ad3fbe844e173c8
## 25	6734f5f4f223d589dc4ff361a310c155	8643d013d64405966b262a0280c0b197
## 26	6734f5f4f223d589dc4ff361a310c155	c0e88abe6a0ab110f0f201685c0bd185
## 27	6734f5f4f223d589dc4ff361a310c155	5b31d7eefd327c5296826021dd9a4c56
## 28	6734f5f4f223d589dc4ff361a310c155	bc679a3aec3b015b11b5c33673d58a31
## 29	6734f5f4f223d589dc4ff361a310c155	5ae2cd142c4d754f9cf52879c9df4fc0
## 30	6734f5f4f223d589dc4ff361a310c155	112c745f06b882dc111506a76e90a206
## 31	fd36e2b3ec59dbd996587454cbb59725	789951a2bbfbf299b0822cc8452f236f
## 34	fd36e2b3ec59dbd996587454cbb59725	9f719255d46dd8b9b07935d891dc5295
## 35	fd36e2b3ec59dbd996587454cbb59725	06101d4bde60d0ea415206d4ba04572c
## 38	fd36e2b3ec59dbd996587454cbb59725	ac11025453a44a174b69354845b985d5
## 39	fd36e2b3ec59dbd996587454cbb59725	21a0357f2ca81fcfc9e5502e6ba4c5de
## 40	fd36e2b3ec59dbd996587454cbb59725	08982a644b08fcabe920861dcf638039
## 41	fd36e2b3ec59dbd996587454cbb59725	7aa407c589c49ea3aa49224367f9aad8
## 75	c51267de031fb6d879a8abf25d260269	1c2408654ef5a2fe1fc962088312266c
## 76	c51267de031fb6d879a8abf25d260269	9b2cfcfa9664443aaa0a5cf1333c7244
## 77	c51267de031fb6d879a8abf25d260269	c45839f19cbf1437468598076cb11a1c
## 78	c51267de031fb6d879a8abf25d260269	5416d60fcbda9d702ccbcee046a3e7cb
## 79	c51267de031fb6d879a8abf25d260269	2420e28d6dd40f144e4484b856092628
## 80	c51267de031fb6d879a8abf25d260269	b4216eec77f3aaf926d1b6a1e1512c8e
## 81	c51267de031fb6d879a8abf25d260269	516c55f4541512c4672db44137aee2c8
## 82	c51267de031fb6d879a8abf25d260269	7b85f0f72fa8b6276a307492ba804025
## 83	c51267de031fb6d879a8abf25d260269	2bb88f446d3a78151df3ae67ad006e10
## 84	c51267de031fb6d879a8abf25d260269	5a4bb89464c07cc514e9f08ac6190e71
## 85	5a2f371a934f22dffcf1e994cb6eca40	3edc9028bcaab791b8790713cf82d280
## 86	5a2f371a934f22dffcf1e994cb6eca40	04b2eeaf9dcd75f5fcaeec08f76603f2
## 87	5a2f371a934f22dffcf1e994cb6eca40	c775bb281e5479508ec125fa644ff065
## 89	5a2f371a934f22dffcf1e994cb6eca40	c7e8ec1734c9626546d613ca12f9dc57
## 90	5a2f371a934f22dffcf1e994cb6eca40	cff864eff9ec76edf5a6606be92b33b5
## 91	5a2f371a934f22dffcf1e994cb6eca40	19e7e29d12d3eec6776a993acdfca999
## 92	5a2f371a934f22dffcf1e994cb6eca40	35d830aeb7087089a94bd6f4c2119268
## 93	5a2f371a934f22dffcf1e994cb6eca40	df2f92f65e0119382722048c0fe1aaa9
## 96	5a2f371a934f22dffcf1e994cb6eca40	a7ca986d375e45fe72aa5b043c0d207e
## 97	253a0d24ddff7cbe1b9f621870d9d198	ac56ebdc4dda8269a4a2b52a1d6c7850
## 107	feaa341d33cedb0f4f7ec731c84e5ba9	be2c146782bc42ee8a28929e2caae9ba
## 108	feaa341d33cedb0f4f7ec731c84e5ba9	852e3c313e43b1ae48f3d6bb0a6469d3
## 109	feaa341d33cedb0f4f7ec731c84e5ba9	150f21419f5bb180fd931e2fa8640a70

117 4258362c2bb0d1f95b05ba2bb2e71be9 cee86ca062c513efc86eb507151fbc09
118 4258362c2bb0d1f95b05ba2bb2e71be9 4733a44073c81970cccbca6e1ede188b
126 4258362c2bb0d1f95b05ba2bb2e71be9 5052688170956343ecf8371c9921c6be
227 5a96f81207a7a619ea2574c7e86cda93 cdfdf4d1cb331c85c789c7401a88d6b3
228 5a96f81207a7a619ea2574c7e86cda93 9bca8c56351df29d833cbf3ebcb180a1
232 5a96f81207a7a619ea2574c7e86cda93 df09e9a8368e050f75a6f2aa89c2c54c
233 5a96f81207a7a619ea2574c7e86cda93 d35f30a55820eb88b89350618eb3a171
234 5a96f81207a7a619ea2574c7e86cda93 0a02f10d313ea98a111c9e8323ed385e
236 5a96f81207a7a619ea2574c7e86cda93 3409c695fd39d4511ed3dd3d9fa3436f
239 a7380c7fdd4f9c977a007c003e42deb8 bd1d7b0809e4b4ee9ca307aa5308ea6f
240 a7380c7fdd4f9c977a007c003e42deb8 df3939f11965e7e75dbc046cd9af1c67
241 a7380c7fdd4f9c977a007c003e42deb8 dee1225ded7171820b3b974f86164a65
242 a7380c7fdd4f9c977a007c003e42deb8 aad627aedbaec238fd7f74e3aa3385e5
243 a7380c7fdd4f9c977a007c003e42deb8 571163a3f76efb73cd125ef35b44ea4d
244 a7380c7fdd4f9c977a007c003e42deb8 3a444f015555e4667dec80fd853a5033
245 a7380c7fdd4f9c977a007c003e42deb8 3ce80889b3746a483269fb4554f69517
277 00b0bc50a5d4c23ebdac6e69cebf284d cb216e6502316d1466d79b4a18b540cf
278 07455b8d275697db40dab95a03f3c208 be6fbe0a469c8ba8b4f2c44e0fe6304d
279 21130e0e97a7ce7afdd817c223e9ac64 ca9ff114ef0294d44570b2f047017c45
280 07455b8d275697db40dab95a03f3c208 d461230a8b9f2893ad1ec16580afbeb2
281 00b0bc50a5d4c23ebdac6e69cebf284d 47216f67cbc4c6ce2dc9d6e41550496d
282 00b0bc50a5d4c23ebdac6e69cebf284d b7d7985212d1c5dad1b63a7d529ce904
283 dc4c5f00782773504555c80d9c6dd20f 9a151897ab3979d9320496fa60f3dd09
284 cc97268e16b656d42336d456432e1925 c7d12fe45546c973922880529fa8edae
285 391737a84a55fb3fc6b1f3e5789cd077 f7c4fadae08200bc74b0fe5368741290
297 58056c4dc037cb0dbba1ad30215034da 2cb006f5af92908e10f658a662e1d5dc
298 58056c4dc037cb0dbba1ad30215034da 5b6caf13d5494dbcf97f7cbc08fb4474
299 58056c4dc037cb0dbba1ad30215034da 25e38df28480f96f016e14a314fe3c78
300 58056c4dc037cb0dbba1ad30215034da c2a09d55305b52aad95a25a11f4a6e9f
301 58056c4dc037cb0dbba1ad30215034da 739d1aeb9df6ab5010aa49d84ffee8ed
302 58056c4dc037cb0dbba1ad30215034da dcb3e11bbe723cfa77314f8e5fd010c7
303 58056c4dc037cb0dbba1ad30215034da b08ccacdf72360c9419bed8e73f81fab
304 58056c4dc037cb0dbba1ad30215034da d4ec69b42a38a9e3bb885e045e50861a
305 28c6a87502875ef92990719df72796de eb85e0caa487a9fd16fac6b15715dcf8
306 58056c4dc037cb0dbba1ad30215034da ee9817b969dbd601e367e777a5de7962
307 e7f9de8678dd0388865077403567b45c 967282cd5d3edbae550d1c4ab643f5ce
308 e7f9de8678dd0388865077403567b45c 8e244595a666e4311a81757ca88371b8
309 e7f9de8678dd0388865077403567b45c 7902ed1386067dae936e6639ba7f85a4
310 e7f9de8678dd0388865077403567b45c 6ea4dc5cd6a84ef12b677bbaabc9fc6f
311 e7f9de8678dd0388865077403567b45c 4eec8ecba9d91f00de594fa5267d1c98
312 e7f9de8678dd0388865077403567b45c 49f34c755408a89228f78967771c175f
313 e7f9de8678dd0388865077403567b45c aacdcaab42f85782dbafce7a5d26b4b1
314 e7f9de8678dd0388865077403567b45c f1b5a149b72512dffa7774d6a793b41b
315 e7f9de8678dd0388865077403567b45c 15f97b6406102d4ccf285b8063f39f84
316 e7f9de8678dd0388865077403567b45c 0657038008ee10df1a7dc9e8b25e59a0
317 b7c953cb6c1f80156d72b012e64c2f5b 830b198e4dbea57bc18d39e4174bd4a4
318 b7c953cb6c1f80156d72b012e64c2f5b 839d0778a7469b85de24947ff78d9c15
319 b7c953cb6c1f80156d72b012e64c2f5b d001d856ebdf0dec03d46283237d5d4
320 b7c953cb6c1f80156d72b012e64c2f5b ce9d8ffcc3b2509bdf8bee1e4787b014
322 b7c953cb6c1f80156d72b012e64c2f5b dfe7ac4bf28ba478a59850d3ca63ceb3
323 b7c953cb6c1f80156d72b012e64c2f5b fe37167d943dc7ea355615ecf8c775f9
324 b7c953cb6c1f80156d72b012e64c2f5b a815dbe596b632b4fd406210c97257d5
326 58056c4dc037cb0dbba1ad30215034da 7a7ad17163012c8f04322273aebfe886
327 7e6e6a69493f1d54a74ecdd4058ebadf 68097a6cb16bbb5dbd68f19762081469

328 7e6e6a69493f1d54a74ecdd4058ebadf 338c1ca2a3984271538bc74eae7bef6b
329 7e6e6a69493f1d54a74ecdd4058ebadf 0c5f10813c5f6befe0da412e67a6aa60
330 7e6e6a69493f1d54a74ecdd4058ebadf 2b5ea6f3126404c7e4eda7825bed9899
331 7e6e6a69493f1d54a74ecdd4058ebadf 7b57fe76c35503b0a477d287ea00b37f
332 7e6e6a69493f1d54a74ecdd4058ebadf 1d6fdbb06fbbf58b46d607cf1685049e
333 7e6e6a69493f1d54a74ecdd4058ebadf a8e17797adc14c4a0d5e471e1c51e978
334 7e6e6a69493f1d54a74ecdd4058ebadf fb0584aba84a3668a9bbf0470fba3076
335 7e6e6a69493f1d54a74ecdd4058ebadf d1c3771b9b322f68e211feb06e6be920
337 f697d5c9213997cc167707e4f07a8da8 a97ef9def423fd197a090c1cb628a69f
338 f697d5c9213997cc167707e4f07a8da8 3036ed5a46ad4a5a95f1539c3380b842
339 f697d5c9213997cc167707e4f07a8da8 425f17c638540b224c07192d531bb3cb
340 f697d5c9213997cc167707e4f07a8da8 7c1c7202e4c08021c2f734c5c8e2f087
341 f697d5c9213997cc167707e4f07a8da8 92bfa27dc07eba67b807bc12b1718d6f
342 f697d5c9213997cc167707e4f07a8da8 6a2b00bf02f70b2f261665b44e22013a
343 f697d5c9213997cc167707e4f07a8da8 2fb0249a6780ecbd5fee198521790376
344 f697d5c9213997cc167707e4f07a8da8 14298d51dc6aa40726467279e600b416
345 f697d5c9213997cc167707e4f07a8da8 d7349aa570a6e2f2211e14679cd3808b
347 54da3e417c8efaddfe60f2634e0655ff fd4c92272d5a952adf7aad11c20458e1
348 3278ce887bc37a4d45550d5e8a6d6828 ef1cb6e72d149b184cc241037203f60b
350 ae042cc7daa59392f0ae30e0d7efea55 d0fa06cd93335c8cae357ffe5cd1c4e9
351 7e7c74a4b3543bfd71fdce2f52df44e2 5d44a032652974c3e53644945a95b126
352 18ec34f5d5544bbb34ac03bbd62d61cf 3691308f2a4c2f6983f2880d32e29c84
353 4c2954ca87d25ecb003e253dff6485b7 1f2dfa567dcf95833eddf7aec167fec7
354 7e01a8e692e1c5459b716e6af849922e 1e7342845e24eb3b5b3554490da1c128
355 d4c40ebf6bd149deed005ca123fa3110 051a9911de7b5bbc610b76f4eda834a0
356 3a263ca1825c7810dd45e801c9e9f45f Å e2075474294983e013ee4dd2201c7a73
357 ed892caec7a86a00ec5fbefdf5f44faf 6ce9c1c0b4443b31753cd40c34000efd
358 ed892caec7a86a00ec5fbefdf5f44faf b133711dfc55c6e89213c01c58d59703
359 ed892caec7a86a00ec5fbefdf5f44faf 807d5b3793c7e1f047818dd2611b1589
361 ed892caec7a86a00ec5fbefdf5f44faf 74e358b9e1b44ee6129c7eb3344ee658
362 ed892caec7a86a00ec5fbefdf5f44faf 99a156a62a0944ba6887b90d4fd77b15
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## 391 18a53b0cfa2bcde3c1d12e74a2e10268 705374c66ddd3501ccffd1d54655411a
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## 414 b16ae1eae8d7351e997e8faf1f734d2c 90436fcf8fdad8e75690525f0e8a9018
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## 420 fd540e43a7112f833051d2ed1fdbbbf0 c943d1e478cf04dd55706758ca7307a1
## 421 59944aec47699b65f6a93c79913f64cd 87b84e65079f3a08a474971aa7f355ed
## 424 d441d1e30322901bf7caeee33f0ee9af 5d2dadcc6682bf48ce49de8a5015a76bc
## 425 d441d1e30322901bf7caeee33f0ee9af 63f4ed4ecc6dd8196b024634aaba8207
##      height head.height arm.span age hand.length foot.length floor.hip
## 1    152.1000    23.0000 148.2000 21    16.95000    21.65000    87.75000
## 2    174.0000    22.1000 167.0000 22    18.55000    23.00000   102.25000
## 3    168.0000    18.0000 157.0000 23    15.00000    20.00000   102.00000
## 4    164.0000    23.0000 155.0000 23    17.00000    23.00000    88.00000
## 5    181.0000    26.0000 183.0000 23    20.00000    25.00000    99.00000
## 6    156.2000    22.5000 167.5000 63    18.35000    25.40000    96.00000
## 7    154.3000    22.5000 150.1000 59    17.05000    21.95000    89.50000
## 8    154.3000    23.0000 151.0000 23    17.00000    22.00000    88.00000
## 9    172.7000    20.0000 154.0000 20    18.00000    26.00000    96.00000
## 10   164.0000    23.0000 154.3000 26    17.00000    23.30000    88.00000
## 21   145.0000    18.8000 141.7000 87    17.00000    21.80000    88.90000
## 22   181.0000    24.3000 176.0000 30    17.90000    24.90000   105.00000
## 23   152.6000    18.3000 159.6000 60    17.20000    22.75000    90.15000
## 24   169.5000    21.0000 165.0000 20    18.35000    23.65000   103.35000
## 25   164.9000    19.1000 151.9000 47    17.20000    22.30000    99.50000
## 26   153.6000    22.2000 161.1000 22    18.20000    24.00000    92.15000
## 27   177.8000    20.5000 182.8000 26    18.60000    26.20000   102.45000
## 28   168.3000    22.2000 165.7000 27    17.20000    23.65000    95.25000
## 29   170.1000    22.5000 168.6000 26    17.15000    21.75000   101.40000
## 30   151.6000    19.9000 156.0000 61    16.30000    22.15000    95.60000
## 31   177.1650    23.4950 184.1500 38    19.20875    28.57500   104.45750

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## 34	181.6100	23.4950	182.2450	36	19.84375	26.67000	108.42625
## 35	161.2900	22.8600	160.6550	36	17.46250	22.22500	97.15500
## 38	166.6875	21.9075	167.3225	35	18.17688	24.92375	95.56750
## 39	157.4800	22.2250	157.4800	52	16.35125	22.54250	93.34500
## 40	179.0700	23.1775	183.1975	59	20.32000	26.03500	106.83875
## 41	158.1150	22.2250	160.6550	57	17.30375	23.81250	95.72625
## 75	178.0000	21.0000	176.0000	47	19.25000	26.50000	93.75000
## 76	181.6100	20.3200	218.4400	22	17.78000	25.40000	99.03000
## 77	175.4000	19.6000	211.0000	23	17.05000	24.00000	95.65000
## 78	161.0000	18.0000	193.0000	20	16.00000	22.50000	88.00000
## 79	165.0000	18.5000	198.5000	52	16.00000	23.00000	90.00000
## 80	186.0000	21.0000	224.0000	61	18.00000	26.00000	101.00000
## 81	184.0000	20.5000	221.0000	25	18.00000	26.00000	100.00000
## 82	159.0000	18.0000	195.0000	23	16.00000	23.00000	88.50000
## 83	185.5000	21.0000	223.0000	26	18.00000	26.00000	101.00000
## 84	185.0000	21.0000	224.0000	22	18.00000	26.00000	101.50000
## 85	183.0000	23.0000	183.0000	21	19.50000	28.00000	106.00000
## 86	166.5000	20.5000	164.0000	20	18.00000	23.00000	100.75000
## 87	157.5000	23.0000	160.0000	23	18.00000	23.00000	82.25000
## 89	178.0000	23.0000	171.0000	54	20.00000	26.75000	100.50000
## 90	168.0000	20.0000	166.0000	61	19.50000	25.25000	102.00000
## 91	170.0000	27.0000	174.0000	20	17.75000	24.00000	94.00000
## 92	178.0000	24.0000	180.5000	22	18.50000	25.75000	100.50000
## 93	183.0000	25.0000	162.0000	23	21.00000	29.00000	103.00000
## 96	185.0000	24.0000	192.0000	57	21.00000	28.50000	113.00000
## 97	175.2600	24.1300	179.7050	35	19.49450	25.08250	93.98000
## 107	175.2600	23.4950	180.9750	21	18.87500	24.44750	97.15500
## 108	165.1000	21.5900	162.5600	21	16.51000	22.86000	101.28250
## 109	177.8000	24.7650	187.9600	21	19.68500	27.62250	98.10750
## 117	187.9600	23.4950	196.8500	46	20.32000	29.21000	104.14000
## 118	161.2900	20.3200	158.7500	44	17.78000	22.86000	92.07500
## 126	180.5000	21.5000	179.0000	26	18.75000	26.75000	98.75000
## 227	143.5000	22.0000	165.0000	24	17.00000	23.75000	100.50000
## 228	177.0000	24.0000	175.0000	27	19.00000	27.50000	101.50000
## 232	166.0000	20.0000	160.0000	51	18.75000	27.25000	100.50000
## 233	174.0000	22.0000	175.0000	28	19.00000	24.25000	103.00000
## 234	183.0000	23.0000	172.0000	30	19.00000	26.75000	95.50000
## 236	178.0000	23.0000	177.0000	19	20.00000	25.25000	103.50000
## 239	157.4800	20.0000	165.1000	41	16.50000	23.50000	94.00000
## 240	174.6250	23.5000	180.3400	45	19.50000	26.50000	103.00000
## 241	167.0000	22.0000	171.0000	30	20.00000	26.00000	102.00000
## 242	170.0000	24.0000	175.0000	33	21.00000	27.00000	105.00000
## 243	154.0000	21.0000	155.0000	21	16.60000	23.35000	96.15000
## 244	167.6400	24.0000	177.8000	21	18.00000	35.50000	101.00000
## 245	185.0000	25.0000	188.0000	27	20.00000	30.00000	104.00000
## 277	180.5000	26.5000	181.5000	29	21.50000	28.50000	100.50000
## 278	160.0000	20.0000	157.0000	57	18.00000	25.25000	96.50000
## 279	175.0000	24.0000	180.0000	50	24.00000	28.00000	104.25000
## 280	180.0000	23.0000	185.0000	24	20.50000	28.00000	101.50000
## 281	158.0000	24.5000	161.5000	23	16.50000	23.00000	97.25000
## 282	182.5000	25.0000	186.0000	23	19.00000	26.00000	108.00000
## 283	168.0000	26.0000	167.0000	21	19.00000	25.00000	95.50000
## 284	181.0000	25.5000	182.5000	56	22.00000	28.50000	95.50000
## 285	155.0000	22.0000	154.0000	56	17.50000	24.50000	94.50000

## 297	156.2100	20.3200	153.0350	28	16.51000	21.79320	88.58250
## 298	177.8000	23.4950	187.9600	27	18.83410	27.07640	102.33660
## 299	152.0825	20.9550	149.8600	61	18.98650	21.99640	86.48700
## 300	176.9364	20.9550	177.4825	61	20.95500	25.11425	100.11410
## 301	161.9250	19.0500	160.6550	54	18.41500	24.13000	93.98000
## 302	182.8800	22.8600	186.6900	55	19.05000	26.03500	107.63250
## 303	160.0200	21.1582	158.1150	63	17.78000	22.86000	86.80450
## 304	168.2750	20.5740	172.0850	28	17.78000	24.33320	102.85730
## 305	187.9600	20.3200	191.1350	27	20.00250	27.62250	104.77500
## 306	165.1000	20.9550	166.3700	36	17.78000	22.54250	96.08820
## 307	173.0000	22.0000	173.0000	23	17.75000	26.00000	96.00000
## 308	167.0000	18.0000	167.0000	25	18.00000	25.00000	94.75000
## 309	157.0000	19.0000	159.0000	50	16.50000	23.00000	88.50000
## 310	158.0000	24.0000	146.0000	94	17.00000	24.00000	89.50000
## 311	162.0000	22.5000	163.0000	72	18.50000	24.00000	96.00000
## 312	168.0000	28.0000	177.0000	72	19.00000	25.00000	93.50000
## 313	151.0000	20.0000	165.0000	76	18.00000	24.00000	95.75000
## 314	149.0000	29.0000	148.0000	68	16.50000	22.50000	93.25000
## 315	159.0000	23.0000	167.0000	75	16.75000	22.50000	93.00000
## 316	162.0000	22.5000	160.5000	77	17.75000	24.00000	98.00000
## 317	173.9900	25.0825	181.6100	27	18.89125	25.40000	89.53500
## 318	170.1800	18.4150	172.7200	58	16.51000	23.49500	96.52000
## 319	177.8000	25.4000	182.8800	52	17.78000	26.67000	105.41000
## 320	152.4000	24.1300	152.4000	53	15.87500	21.59000	87.63000
## 322	161.9250	19.6850	158.1150	61	17.46250	23.81250	79.69250
## 323	162.5600	21.5900	161.2900	68	17.78000	24.44750	90.17000
## 324	180.3400	20.3200	182.8800	69	18.41500	25.71750	102.23500
## 326	184.1500	20.9550	186.6900	30	19.05000	28.25750	104.77500
## 327	158.0000	22.0000	159.5000	62	17.00000	21.75000	92.50000
## 328	172.0000	24.0000	168.0000	68	19.50000	25.25000	100.00000
## 329	190.5000	22.2500	193.0000	36	21.00000	28.37500	105.12500
## 330	180.2500	21.5000	185.5000	42	19.87500	26.75000	109.00000
## 331	158.0000	20.5000	166.0000	33	16.75000	23.50000	84.75000
## 332	178.0000	22.0000	174.0000	34	17.50000	23.50000	102.50000
## 333	173.0000	20.0000	179.0000	36	18.25000	26.50000	100.75000
## 334	162.5000	20.3000	165.0000	38	17.40000	22.30000	96.50000
## 335	168.0000	20.0000	165.0000	40	18.00000	24.42500	91.50000
## 337	169.0000	22.0000	173.0000	23	19.50000	26.00000	97.00000
## 338	158.0000	21.5000	162.0000	23	18.00000	23.25000	88.00000
## 339	137.0000	23.0000	139.0000	31	17.50000	22.00000	78.50000
## 340	162.0000	24.0000	164.0000	60	20.25000	23.75000	86.00000
## 341	160.0000	23.0000	159.0000	52	19.00000	23.50000	83.50000
## 342	171.0000	23.0000	171.5000	64	19.00000	26.00000	96.50000
## 343	140.0000	20.0000	143.0000	47	17.00000	21.00000	79.00000
## 344	154.0000	23.5000	160.0000	25	19.25000	24.75000	89.50000
## 345	148.0000	24.0000	148.0000	22	17.00000	22.75000	89.00000
## 347	182.8800	23.4950	193.0400	25	19.05000	27.94000	99.06000
## 348	170.1800	38.1000	158.7500	26	17.46250	23.81250	90.17000
## 350	174.4980	20.3200	175.2600	28	18.66900	26.03500	105.53700
## 351	176.5300	19.0500	184.6580	58	19.93900	26.92400	107.18800
## 352	162.5600	33.0200	166.3700	26	19.05000	23.17750	91.75750
## 353	177.1650	20.9550	175.8950	24	18.41500	23.49500	100.01250
## 354	170.1800	22.8600	171.4500	28	18.41500	24.76500	92.07500
## 355	187.4520	22.2250	191.5160	59	20.82800	29.59100	112.39500

## 356	172.7200	21.5900	173.0375	28	18.41500	23.17750	98.74250
## 357	175.6000	21.0000	176.2000	21	18.40000	26.35000	94.75000
## 358	175.5000	20.0000	178.0000	22	19.90000	25.50000	93.00000
## 359	176.0000	20.5000	178.0000	58	20.05000	26.55000	94.00000
## 361	169.6000	20.6000	163.0000	51	17.00000	24.20000	89.00000
## 362	165.9000	21.0000	166.5000	53	17.80000	24.20000	84.10000
## 363	168.0000	23.0000	172.0000	21	17.00000	24.40000	87.90000
## 364	168.5000	21.0000	170.0000	55	18.90000	25.75000	91.75000
## 365	186.0000	21.5000	188.8000	56	20.00000	28.25000	96.25000
## 366	170.0000	18.5000	176.0000	22	19.00000	26.00000	93.00000
## 367	168.9000	21.5000	174.0000	28	19.00000	24.30000	96.75000
## 368	181.0000	22.8000	190.5000	38	19.70000	26.70000	103.20000
## 369	160.0000	22.0000	157.5000	28	17.20000	22.00000	91.00000
## 370	173.0000	25.0000	182.0000	29	18.90000	25.00000	98.50000
## 371	163.0000	22.0000	170.0000	63	17.10000	24.15000	92.10000
## 372	185.4000	24.3000	181.6000	32	18.40000	30.50000	101.60000
## 373	163.0000	21.0000	147.3000	29	15.00000	22.15000	91.45000
## 374	167.0000	23.0000	171.0000	48	18.00000	26.50000	92.50000
## 375	167.7000	31.0000	168.9000	55	21.20000	25.85000	94.55000
## 376	167.7000	30.0000	174.0000	39	17.15000	27.50000	94.00000
## 377	160.0200	19.0500	167.6400	22	17.78000	26.22550	88.90000
## 382	172.7200	21.5900	177.8000	22	21.59000	26.67000	82.55000
## 383	177.8000	21.5900	185.4200	21	22.22500	27.94000	84.77250
## 384	152.4000	19.6850	154.9400	22	15.87500	21.90750	84.77250
## 386	167.6400	19.6850	177.8000	19	18.41500	26.67000	87.63000
## 387	167.5000	25.0000	158.0000	21	19.50000	24.00000	95.75000
## 388	172.5000	22.5000	174.5000	25	20.00000	25.25000	101.25000
## 389	182.5000	23.0000	183.5000	25	19.75000	26.00000	100.00000
## 390	189.0000	22.0000	185.8000	23	19.75000	26.30000	110.50000
## 391	182.0000	23.5000	182.5000	21	20.40000	26.05000	113.00000
## 392	180.5000	22.0000	177.5000	20	19.70000	26.60000	107.25000
## 393	172.0850	22.8600	168.9100	55	18.41500	26.98750	97.15500
## 394	157.4800	20.3200	152.4000	53	17.78000	22.86000	88.90000
## 395	154.9400	21.5900	152.4000	20	18.41500	21.59000	83.18500
## 396	177.5000	24.0000	181.5000	26	19.35000	25.50000	106.50000
## 397	185.0000	23.0000	196.0000	28	19.00000	27.00000	103.00000
## 398	188.0000	22.5000	187.0000	25	19.50000	26.00000	101.00000
## 399	184.0000	24.0000	183.0000	24	21.00000	26.00000	105.50000
## 400	173.0000	22.0000	173.0000	50	17.00000	24.00000	99.00000
## 401	178.0000	24.0000	183.0000	52	21.00000	27.00000	101.00000
## 402	160.0000	23.5000	165.0000	29	17.25000	23.25000	95.50000
## 403	184.5000	24.0000	190.5000	21	20.00000	28.00000	95.75000
## 404	165.0000	23.0000	167.5000	27	18.00000	23.75000	99.00000
## 405	180.5000	21.5000	185.5000	32	19.00000	26.50000	99.25000
## 406	158.0000	23.0000	163.0000	25	17.00000	23.00000	96.00000
## 407	163.8000	20.8000	171.4000	22	17.35000	22.65000	91.25000
## 408	167.6000	21.0000	165.8000	25	17.35000	21.85000	99.85000
## 409	166.9000	20.8000	157.2260	25	16.85000	22.15000	92.05000
## 410	160.2000	21.5900	161.5000	55	17.75000	38.75000	96.75000
## 411	189.4000	21.3000	175.1000	55	19.30000	28.90000	101.10000
## 412	165.7000	21.7000	163.6000	22	15.25000	21.75000	98.60000
## 413	166.6000	20.1000	169.7000	22	16.45000	24.15000	90.65000
## 414	176.8000	20.1000	175.3000	21	16.65000	25.65000	87.80000
## 416	172.2000	19.1000	173.4000	26	17.60000	24.90000	91.70000

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## 417 188.0000      24.5000 156.5000 53      20.25000      28.75000 112.50000
## 418 170.1800      25.4000 171.5000 53      18.75000      22.25000  92.75000
## 419 154.9400      20.9550 154.9400 49      19.59250      24.38400  93.24000
## 420 164.4650      20.9550 161.2900 20      18.57375      21.59000  94.79000
## 421 177.8000      22.8600 185.4200 40      20.00250      27.62250 110.49000
## 424 176.5300      21.5900 180.3400 43      19.68500      25.40000 101.28250
## 425 171.4500      20.3200 170.1800 42      17.78000      24.13000  95.88500
##      my.ethnicity my.gender new.units height/height head.height/height
## 1          w          f          cm          1          0.1512163
## 2          h          m          cm          1          0.1270115
## 3          b          m          cm          1          0.1071429
## 4          w          f          cm          1          0.1402439
## 5          w          f          cm          1          0.1436464
## 6          w          m          cm          1          0.1440461
## 7          w          f          cm          1          0.1458198
## 8          w          m          cm          1          0.1490603
## 9          w          f          cm          1          0.1158078
## 10         w          f          cm          1          0.1402439
## 21         w          f          cm          1          0.1296552
## 22         w          m          cm          1          0.1342541
## 23         w          f          cm          1          0.1199214
## 24         a          f          cm          1          0.1238938
## 25         w          f          cm          1          0.1158278
## 26         b          f          cm          1          0.1445312
## 27         w          m          cm          1          0.1152981
## 28         w          f          cm          1          0.1319073
## 29         w          m          cm          1          0.1322751
## 30         w          f          cm          1          0.1312665
## 31         w          m          cm          1          0.1326165
## 34         w          m          cm          1          0.1293706
## 35         w          f          cm          1          0.1417323
## 38         w          f          cm          1          0.1314286
## 39         w          f          cm          1          0.1411290
## 40         w          m          cm          1          0.1294326
## 41         w          f          cm          1          0.1405622
## 75         w          m          cm          1          0.1179775
## 76         w          m          cm          1          0.1118881
## 77         w          m          cm          1          0.1117446
## 78         w          f          cm          1          0.1118012
## 79         w          f          cm          1          0.1121212
## 80         w          m          cm          1          0.1129032
## 81         w          m          cm          1          0.1114130
## 82         h          f          cm          1          0.1132075
## 83         w          m          cm          1          0.1132075
## 84         w          m          cm          1          0.1135135
## 85         w          m          cm          1          0.1256831
## 86         w          f          cm          1          0.1231231
## 87         a          m          cm          1          0.1460317
## 89         w          m          cm          1          0.1292135
## 90         w          f          cm          1          0.1190476
## 91         w          f          cm          1          0.1588235
## 92         w          m          cm          1          0.1348315
## 93         w          m          cm          1          0.1366120
## 96         w          m          cm          1          0.1297297

```

## 97	w	m	cm	1	0.1376812
## 107	w	m	cm	1	0.1340580
## 108	w	f	cm	1	0.1307692
## 109	w	m	cm	1	0.1392857
## 117	w	m	cm	1	0.1250000
## 118	a	f	cm	1	0.1259843
## 126	w	m	cm	1	0.1191136
## 227	w	f	cm	1	0.1533101
## 228	w	m	cm	1	0.1355932
## 232	w	f	cm	1	0.1204819
## 233	w	f	cm	1	0.1264368
## 234	w	m	cm	1	0.1256831
## 236	w	m	cm	1	0.1292135
## 239	w	f	cm	1	0.1270003
## 240	w	m	cm	1	0.1345741
## 241	w	f	cm	1	0.1317365
## 242	w	m	cm	1	0.1411765
## 243	a	f	cm	1	0.1363636
## 244	w	f	cm	1	0.1431639
## 245	l	m	cm	1	0.1351351
## 277	w	m	cm	1	0.1468144
## 278	w	f	cm	1	0.1250000
## 279	w	m	cm	1	0.1371429
## 280	w	m	cm	1	0.1277778
## 281	w	f	cm	1	0.1550633
## 282	w	m	cm	1	0.1369863
## 283	wf	m	cm	1	0.1547619
## 284	w	m	cm	1	0.1408840
## 285	w	f	cm	1	0.1419355
## 297	w	f	cm	1	0.1300813
## 298	w	m	cm	1	0.1321429
## 299	w	f	cm	1	0.1377871
## 300	w	m	cm	1	0.1184324
## 301	w	f	cm	1	0.1176471
## 302	w	m	cm	1	0.1250000
## 303	w	f	cm	1	0.1322222
## 304	w	f	cm	1	0.1222642
## 305	w	m	cm	1	0.1081081
## 306	w	f	cm	1	0.1269231
## 307	a	m	cm	1	0.1271676
## 308	a	f	cm	1	0.1077844
## 309	a	f	cm	1	0.1210191
## 310	a	f	cm	1	0.1518987
## 311	a	f	cm	1	0.1388889
## 312	a	m	cm	1	0.1666667
## 313	a	f	cm	1	0.1324503
## 314	a	f	cm	1	0.1946309
## 315	a	m	cm	1	0.1446541
## 316	a	m	cm	1	0.1388889
## 317	w	m	cm	1	0.1441606
## 318	w	f	cm	1	0.1082090
## 319	w	m	cm	1	0.1428571
## 320	w	f	cm	1	0.1583333
## 322	w	f	cm	1	0.1215686

## 323	w	f	cm	1	0.1328125
## 324	w	m	cm	1	0.1126761
## 326	w	m	cm	1	0.1137931
## 327	a	f	cm	1	0.1392405
## 328	a	m	cm	1	0.1395349
## 329	w	m	cm	1	0.1167979
## 330	w	f	cm	1	0.1192788
## 331	a	f	cm	1	0.1297468
## 332	w	m	cm	1	0.1235955
## 333	a	m	cm	1	0.1156069
## 334	a	f	cm	1	0.1249231
## 335	w	m	cm	1	0.1190476
## 337	ca	m	cm	1	0.1301775
## 338	a	f	cm	1	0.1360759
## 339	a	m	cm	1	0.1678832
## 340	a	m	cm	1	0.1481481
## 341	a	f	cm	1	0.1437500
## 342	w	m	cm	1	0.1345029
## 343	a	f	cm	1	0.1428571
## 344	ca	m	cm	1	0.1525974
## 345	ca	f	cm	1	0.1621622
## 347	w	m	cm	1	0.1284722
## 348	a	m	cm	1	0.2238806
## 350	al	m	cm	1	0.1164483
## 351	w	f	cm	1	0.1079137
## 352	al	f	cm	1	0.2031250
## 353	w	f	cm	1	0.1182796
## 354	w	m	cm	1	0.1343284
## 355	w	m	cm	1	0.1185637
## 356	w	f	cm	1	0.1250000
## 357	w	f	cm	1	0.1195900
## 358	w	f	cm	1	0.1139601
## 359	w	f	cm	1	0.1164773
## 361	w	f	cm	1	0.1214623
## 362	w	m	cm	1	0.1265823
## 363	w	f	cm	1	0.1369048
## 364	w	f	cm	1	0.1246291
## 365	w	m	cm	1	0.1155914
## 366	a	m	cm	1	0.1088235
## 367	a	f	cm	1	0.1272943
## 368	w	m	cm	1	0.1259669
## 369	a	f	cm	1	0.1375000
## 370	w	m	cm	1	0.1445087
## 371	a	f	cm	1	0.1349693
## 372	w	m	cm	1	0.1310680
## 373	w	f	cm	1	0.1288344
## 374	h	f	cm	1	0.1377246
## 375	pi	f	cm	1	0.1848539
## 376	h	f	cm	1	0.1788909
## 377	b	m	cm	1	0.1190476
## 382	a	m	cm	1	0.1250000
## 383	w	m	cm	1	0.1214286
## 384	w	f	cm	1	0.1291667
## 386	a	m	cm	1	0.1174242

## 387	w	m	cm	1	0.1492537
## 388	w	m	cm	1	0.1304348
## 389	l	m	cm	1	0.1260274
## 390	w	m	cm	1	0.1164021
## 391	w	m	cm	1	0.1291209
## 392	w	m	cm	1	0.1218837
## 393	w	m	cm	1	0.1328413
## 394	w	f	cm	1	0.1290323
## 395	a	o	cm	1	0.1393443
## 396	a	m	cm	1	0.1352113
## 397	w	m	cm	1	0.1243243
## 398	w	m	cm	1	0.1196809
## 399	w	m	cm	1	0.1304348
## 400	w	f	cm	1	0.1271676
## 401	w	m	cm	1	0.1348315
## 402	nat	f	cm	1	0.1468750
## 403	w	m	cm	1	0.1300813
## 404	w	f	cm	1	0.1393939
## 405	ji	m	cm	1	0.1191136
## 406	w	f	cm	1	0.1455696
## 407	w	f	cm	1	0.1269841
## 408	w	f	cm	1	0.1252983
## 409	w	f	cm	1	0.1246255
## 410	w	f	cm	1	0.1347690
## 411	w	m	cm	1	0.1124604
## 412	w	f	cm	1	0.1309596
## 413	w	f	cm	1	0.1206483
## 414	w	f	cm	1	0.1136878
## 416	w	f	cm	1	0.1109175
## 417	w	m	cm	1	0.1303191
## 418	w	m	cm	1	0.1492537
## 419	a	f	cm	1	0.1352459
## 420	a	f	cm	1	0.1274131
## 421	w	m	cm	1	0.1285714
## 424	w	m	cm	1	0.1223022
## 425	w	f	cm	1	0.1185185
##	arm.span/height	hand.length/height	foot.length/height	floor.hip/height	
## 1	0.9743590	0.11143984	0.1423406	0.5769231	
## 2	0.9597701	0.10660920	0.1321839	0.5876437	
## 3	0.9345238	0.08928571	0.1190476	0.6071429	
## 4	0.9451220	0.10365854	0.1402439	0.5365854	
## 5	1.0110497	0.11049724	0.1381215	0.5469613	
## 6	1.0723431	0.11747759	0.1626120	0.6145967	
## 7	0.9727803	0.11049903	0.1422553	0.5800389	
## 8	0.9786131	0.11017498	0.1425794	0.5703176	
## 9	0.8917197	0.10422698	0.1505501	0.5558772	
## 10	0.9408537	0.10365854	0.1420732	0.5365854	
## 21	0.9772414	0.11724138	0.1503448	0.6131034	
## 22	0.9723757	0.09889503	0.1375691	0.5801105	
## 23	1.0458716	0.11271298	0.1490826	0.5907602	
## 24	0.9734513	0.10825959	0.1395280	0.6097345	
## 25	0.9211643	0.10430564	0.1352335	0.6033960	
## 26	1.0488281	0.11848958	0.1562500	0.5999349	
## 27	1.0281215	0.10461192	0.1473566	0.5762092	

## 28	0.9845514	0.10219846	0.1405229	0.5659537
## 29	0.9911817	0.10082305	0.1278660	0.5961199
## 30	1.0290237	0.10751979	0.1461082	0.6306069
## 31	1.0394265	0.10842294	0.1612903	0.5896057
## 34	1.0034965	0.10926573	0.1468531	0.5970280
## 35	0.9960630	0.10826772	0.1377953	0.6023622
## 38	1.0038095	0.10904762	0.1495238	0.5733333
## 39	1.0000000	0.10383065	0.1431452	0.5927419
## 40	1.0230496	0.11347518	0.1453901	0.5966312
## 41	1.0160643	0.10943775	0.1506024	0.6054217
## 75	0.9887640	0.10814607	0.1488764	0.5266854
## 76	1.2027972	0.09790210	0.1398601	0.5452894
## 77	1.2029647	0.09720639	0.1368301	0.5453250
## 78	1.1987578	0.09937888	0.1397516	0.5465839
## 79	1.2030303	0.09696970	0.1393939	0.5454545
## 80	1.2043011	0.09677419	0.1397849	0.5430108
## 81	1.2010870	0.09782609	0.1413043	0.5434783
## 82	1.2264151	0.10062893	0.1446541	0.5566038
## 83	1.2021563	0.09703504	0.1401617	0.5444744
## 84	1.2108108	0.09729730	0.1405405	0.5486486
## 85	1.0000000	0.10655738	0.1530055	0.5792350
## 86	0.9849850	0.10810811	0.1381381	0.6051051
## 87	1.0158730	0.11428571	0.1460317	0.5222222
## 89	0.9606742	0.11235955	0.1502809	0.5646067
## 90	0.9880952	0.11607143	0.1502976	0.6071429
## 91	1.0235294	0.10441176	0.1411765	0.5529412
## 92	1.0140449	0.10393258	0.1446629	0.5646067
## 93	0.8852459	0.11475410	0.1584699	0.5628415
## 96	1.0378378	0.11351351	0.1540541	0.6108108
## 97	1.0253623	0.11123188	0.1431159	0.5362319
## 107	1.0326087	0.10769714	0.1394928	0.5543478
## 108	0.9846154	0.10000000	0.1384615	0.6134615
## 109	1.0571429	0.11071429	0.1553571	0.5517857
## 117	1.0472973	0.10810811	0.1554054	0.5540541
## 118	0.9842520	0.11023622	0.1417323	0.5708661
## 126	0.9916898	0.10387812	0.1481994	0.5470914
## 227	1.1498258	0.11846690	0.1655052	0.7003484
## 228	0.9887006	0.10734463	0.1553672	0.5734463
## 232	0.9638554	0.11295181	0.1641566	0.6054217
## 233	1.0057471	0.10919540	0.1393678	0.5919540
## 234	0.9398907	0.10382514	0.1461749	0.5218579
## 236	0.9943820	0.11235955	0.1418539	0.5814607
## 239	1.0483871	0.10477521	0.1492253	0.5969012
## 240	1.0327273	0.11166786	0.1517538	0.5898354
## 241	1.0239521	0.11976048	0.1556886	0.6107784
## 242	1.0294118	0.12352941	0.1588235	0.6176471
## 243	1.0064935	0.10779221	0.1516234	0.6243506
## 244	1.0606061	0.10737294	0.2117633	0.6024815
## 245	1.0162162	0.10810811	0.1621622	0.5621622
## 277	1.0055402	0.11911357	0.1578947	0.5567867
## 278	0.9812500	0.11250000	0.1578125	0.6031250
## 279	1.0285714	0.13714286	0.1600000	0.5957143
## 280	1.0277778	0.11388889	0.1555556	0.5638889
## 281	1.0221519	0.10443038	0.1455696	0.6155063

## 282	1.0191781	0.10410959	0.1424658	0.5917808
## 283	0.9940476	0.11309524	0.1488095	0.5684524
## 284	1.0082873	0.12154696	0.1574586	0.5276243
## 285	0.9935484	0.11290323	0.1580645	0.6096774
## 297	0.9796748	0.10569106	0.1395122	0.5670732
## 298	1.0571429	0.10592857	0.1522857	0.5755714
## 299	0.9853862	0.12484342	0.1446347	0.5686848
## 300	1.0030864	0.11843239	0.1419394	0.5658197
## 301	0.9921569	0.11372549	0.1490196	0.5803922
## 302	1.0208333	0.10416667	0.1423611	0.5885417
## 303	0.9880952	0.11111111	0.1428571	0.5424603
## 304	1.0226415	0.10566038	0.1446038	0.6112453
## 305	1.0168919	0.10641892	0.1469595	0.5574324
## 306	1.0076923	0.10769231	0.1365385	0.5820000
## 307	1.0000000	0.10260116	0.1502890	0.5549133
## 308	1.0000000	0.10778443	0.1497006	0.5673653
## 309	1.0127389	0.10509554	0.1464968	0.5636943
## 310	0.9240506	0.10759494	0.1518987	0.5664557
## 311	1.0061728	0.11419753	0.1481481	0.5925926
## 312	1.0535714	0.11309524	0.1488095	0.5565476
## 313	1.0927152	0.11920530	0.1589404	0.6341060
## 314	0.9932886	0.11073826	0.1510067	0.6258389
## 315	1.0503145	0.10534591	0.1415094	0.5849057
## 316	0.9907407	0.10956790	0.1481481	0.6049383
## 317	1.0437956	0.10857664	0.1459854	0.5145985
## 318	1.0149254	0.09701493	0.1380597	0.5671642
## 319	1.0285714	0.10000000	0.1500000	0.5928571
## 320	1.0000000	0.10416667	0.1416667	0.5750000
## 322	0.9764706	0.10784314	0.1470588	0.4921569
## 323	0.9921875	0.10937500	0.1503906	0.5546875
## 324	1.0140845	0.10211268	0.1426056	0.5669014
## 326	1.0137931	0.10344828	0.1534483	0.5689655
## 327	1.0094937	0.10759494	0.1376582	0.5854430
## 328	0.9767442	0.11337209	0.1468023	0.5813953
## 329	1.0131234	0.11023622	0.1489501	0.5518373
## 330	1.0291262	0.11026352	0.1484050	0.6047157
## 331	1.0506329	0.10601266	0.1487342	0.5363924
## 332	0.9775281	0.09831461	0.1320225	0.5758427
## 333	1.0346821	0.10549133	0.1531792	0.5823699
## 334	1.0153846	0.10707692	0.1372308	0.5938462
## 335	0.9821429	0.10714286	0.1453869	0.5446429
## 337	1.0236686	0.11538462	0.1538462	0.5739645
## 338	1.0253165	0.11392405	0.1471519	0.5569620
## 339	1.0145985	0.12773723	0.1605839	0.5729927
## 340	1.0123457	0.12500000	0.1466049	0.5308642
## 341	0.9937500	0.11875000	0.1468750	0.5218750
## 342	1.0029240	0.11111111	0.1520468	0.5643275
## 343	1.0214286	0.12142857	0.1500000	0.5642857
## 344	1.0389610	0.12500000	0.1607143	0.5811688
## 345	1.0000000	0.11486486	0.1537162	0.6013514
## 347	1.0555556	0.10416667	0.1527778	0.5416667
## 348	0.9328358	0.10261194	0.1399254	0.5298507
## 350	1.0043668	0.10698690	0.1491994	0.6048035
## 351	1.0460432	0.11294964	0.1525180	0.6071942

## 352	1.0234375	0.11718750	0.1425781	0.5644531
## 353	0.9928315	0.10394265	0.1326165	0.5645161
## 354	1.0074627	0.10820896	0.1455224	0.5410448
## 355	1.0216802	0.11111111	0.1578591	0.5995935
## 356	1.0018382	0.10661765	0.1341912	0.5716912
## 357	1.0034169	0.10478360	0.1500569	0.5395786
## 358	1.0142450	0.11339031	0.1452991	0.5299145
## 359	1.0113636	0.11392045	0.1508523	0.5340909
## 361	0.9610849	0.10023585	0.1426887	0.5247642
## 362	1.0036166	0.10729355	0.1458710	0.5069319
## 363	1.0238095	0.10119048	0.1452381	0.5232143
## 364	1.0089021	0.11216617	0.1528190	0.5445104
## 365	1.0150538	0.10752688	0.1518817	0.5174731
## 366	1.0352941	0.11176471	0.1529412	0.5470588
## 367	1.0301954	0.11249260	0.1438721	0.5728242
## 368	1.0524862	0.10883978	0.1475138	0.5701657
## 369	0.9843750	0.10750000	0.1375000	0.5687500
## 370	1.0520231	0.10924855	0.1445087	0.5693642
## 371	1.0429448	0.10490798	0.1481595	0.5650307
## 372	0.9795038	0.09924488	0.1645092	0.5480043
## 373	0.9036810	0.09202454	0.1358896	0.5610429
## 374	1.0239521	0.10778443	0.1586826	0.5538922
## 375	1.0071556	0.12641622	0.1541443	0.5638044
## 376	1.0375671	0.10226595	0.1639833	0.5605247
## 377	1.0476190	0.11111111	0.1638889	0.5555556
## 382	1.0294118	0.12500000	0.1544118	0.4779412
## 383	1.0428571	0.12500000	0.1571429	0.4767857
## 384	1.0166667	0.10416667	0.1437500	0.5562500
## 386	1.0606061	0.10984848	0.1590909	0.5227273
## 387	0.9432836	0.11641791	0.1432836	0.5716418
## 388	1.0115942	0.11594203	0.1463768	0.5869565
## 389	1.0054795	0.10821918	0.1424658	0.5479452
## 390	0.9830688	0.10449735	0.1391534	0.5846561
## 391	1.0027473	0.11208791	0.1431319	0.6208791
## 392	0.9833795	0.10914127	0.1473684	0.5941828
## 393	0.9815498	0.10701107	0.1568266	0.5645756
## 394	0.9677419	0.11290323	0.1451613	0.5645161
## 395	0.9836066	0.11885246	0.1393443	0.5368852
## 396	1.0225352	0.10901408	0.1436620	0.6000000
## 397	1.0594595	0.10270270	0.1459459	0.5567568
## 398	0.9946809	0.10372340	0.1382979	0.5372340
## 399	0.9945652	0.11413043	0.1413043	0.5733696
## 400	1.0000000	0.09826590	0.1387283	0.5722543
## 401	1.0280899	0.11797753	0.1516854	0.5674157
## 402	1.0312500	0.10781250	0.1453125	0.5968750
## 403	1.0325203	0.10840108	0.1517615	0.5189702
## 404	1.0151515	0.10909091	0.1439394	0.6000000
## 405	1.0277008	0.10526316	0.1468144	0.5498615
## 406	1.0316456	0.10759494	0.1455696	0.6075949
## 407	1.0463980	0.10592186	0.1382784	0.5570818
## 408	0.9892601	0.10352029	0.1303699	0.5957637
## 409	0.9420371	0.10095866	0.1327142	0.5515279
## 410	1.0081149	0.11079900	0.2418851	0.6039326
## 411	0.9244984	0.10190074	0.1525871	0.5337909

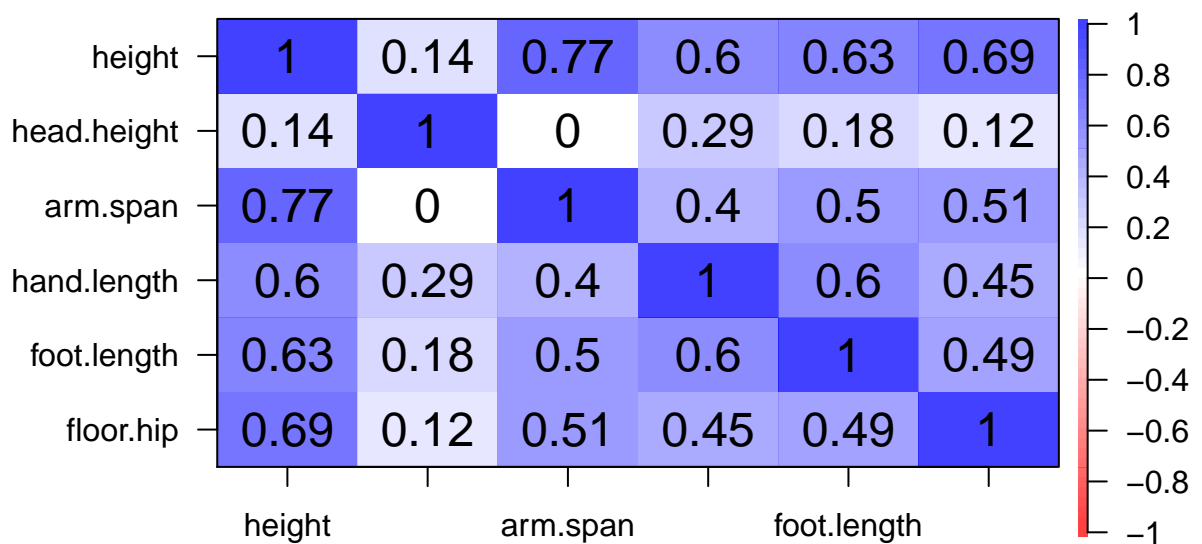
```
## 412      0.9873265      0.09203380      0.1312613      0.5950513
## 413      1.0186074      0.09873950      0.1449580      0.5441176
## 414      0.9915158      0.09417421      0.1450792      0.4966063
## 416      1.0069686      0.10220674      0.1445993      0.5325203
## 417      0.8324468      0.10771277      0.1529255      0.5984043
## 418      1.0077565      0.11017746      0.1307439      0.5450112
## 419      1.0000000      0.12645218      0.1573770      0.6017813
## 420      0.9806950      0.11293436      0.1312741      0.5763536
## 421      1.0428571      0.11250000      0.1553571      0.6214286
## 424      1.0215827      0.11151079      0.1438849      0.5737410
## 425      0.9925926      0.10370370      0.1407407      0.5592593
```

```
sample.cor <- cor(na.omit(sample.data[,c(3:5,7:9)]))
library(corrgram)
```

```
##
## Attaching package: 'corrgram'

## The following object is masked from 'package:lattice':
##
##   panel.fill
```

```
corPlot(sample.cor)
```



```
path.project = "C:/_git_/WSU_STATS419_FALL2020/project-measure/";
path.tables = paste0(path.project, "tables/");
  createDirRecursive(path.tables);

file.correlation = paste0(path.tables, "correlation-table.tex");
myData = as.matrix(sample.data[,c(3:5,7:9)]); # numeric values only, only what will appear in table
# https://www.overleaf.com/read/srzhrcryjpwn
# keepaspectratio of include graphics
# could scale \input if still too big ...
# https://tex.stackexchange.com/questions/13460/scalebox-knowing-how-much-it-scales#13487
buildLatexCorrelationTable(myData,
  rotateTable = TRUE,
  width.table = 0.80, # best for given data ... 0.95 when rotateTable = FALSE
                    # 0.60 when rotateTable = TRUE
  myCaption = "Descriptive Statistics and Correlation Analysis",
  myFile = file.correlation,
  myNames = colnames(myData),
  showOnes = "right")
Sys.sleep(2); # in case Knit-PDF doesn't like that I just created the file...
```

I want to explore possible relationships between ethnicity and measurements, and between gender and measurements. I can possibly compare by race instead of ethnicity. Difference between child and adults, female and male...

```
height.m <- sample.data$height[sample.data$my.gender == 'm']
height.f <- sample.data$height[sample.data$my.gender == 'f']
head.height.m <- sample.data$head.height[sample.data$my.gender == 'm']
head.height.f <- sample.data$head.height[sample.data$my.gender == 'f']
arm.span.m <- sample.data$arm.span[sample.data$my.gender == 'm']
arm.span.f <- sample.data$arm.span[sample.data$my.gender == 'f']
floor.hip.m <- sample.data$floor.hip[sample.data$my.gender == 'm']
floor.hip.f <- sample.data$floor.hip[sample.data$my.gender == 'f']
hand.length.m <- sample.data$hand.length[sample.data$my.gender == 'm']
hand.length.f <- sample.data$hand.length[sample.data$my.gender == 'f']
foot.length.m <- sample.data$foot.length[sample.data$my.gender == 'm']
foot.length.f <- sample.data$foot.length[sample.data$my.gender == 'f']

boxplot(height.m, height.f, arm.span.m, arm.span.f, floor.hip.m, floor.hip.f,
main = "Body measurements boxplot by gender",
at=c(1,2,4,5,7,8),
xlab = "male vs female",
ylab = "unit(cm)",
names=c("height", "height", "armspan", "armspan", "leg", "leg"),
col = c("orange", 'red'),
border = "brown",
notch = TRUE)
```

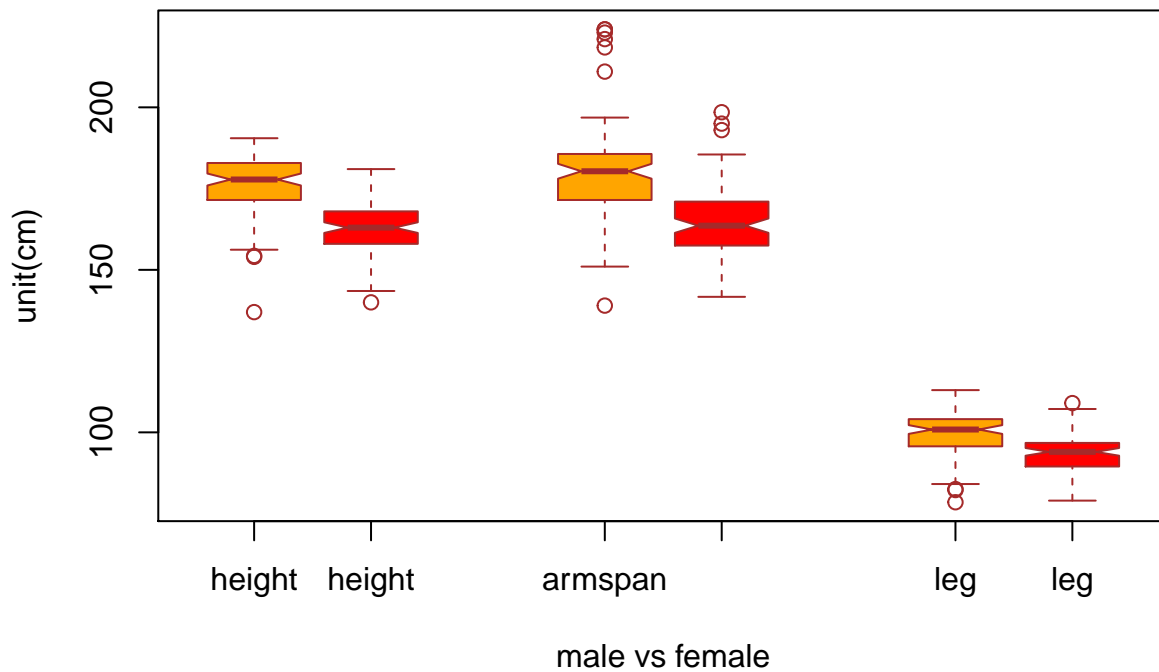
Table 1: Descriptive Statistics and Correlation Analysis

	M	SD	1	2	3	4	5
1 height	169.6	10.95	1				
2 head.height	22.3	2.55	.14 [†]	1			
3 arm.span	172.2	15.15	.77***	.00	1		
4 hand.length	18.4	1.47	.60***	.29***	.40***	1	
5 foot.length	25.0	2.44	.63***	.18*	.50***	.60***	1
6 floor.hip	96.6	6.96	.69***	.12	.51***	.45***	.49***

Notes: Pearson pairwise correlations are reported;
a two-side test was performed to report correlation significance.

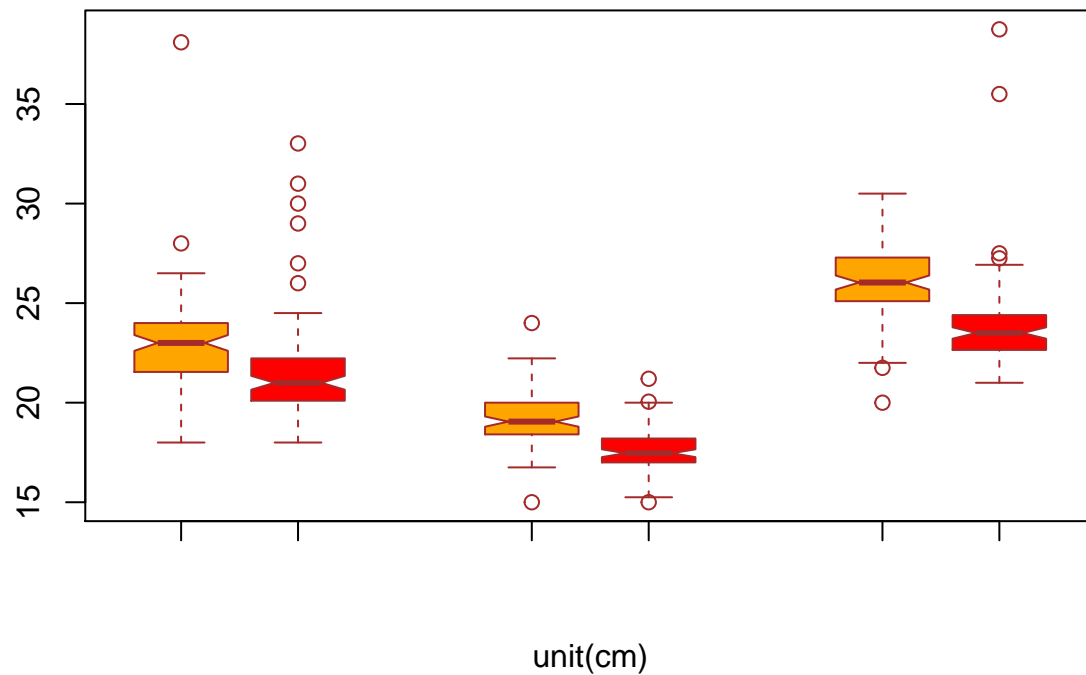
[†] $p < .10$ * $p < .05$ ** $p < .01$ *** $p < .001$

Body measurements boxplot by gender

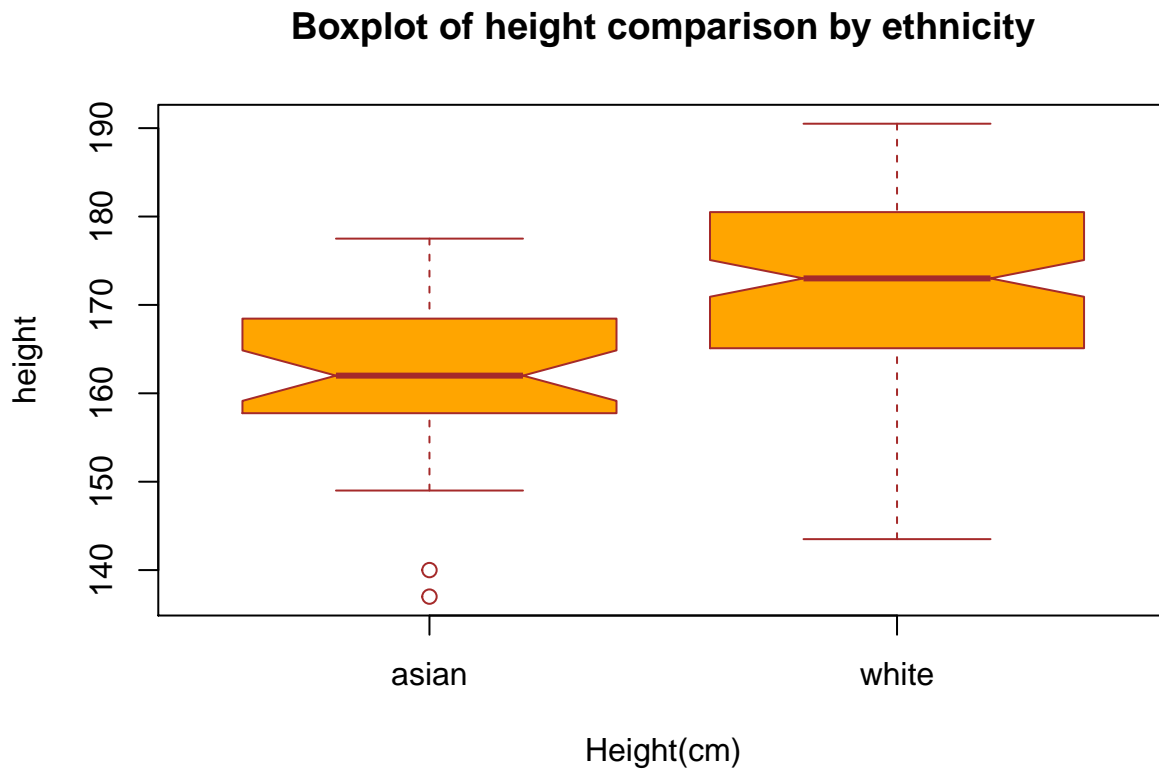


```
boxplot(head.height.m, head.height.f, hand.length.m, hand.length.f, foot.length.m, foot.length.f,
main = "Body measurements boxplot by gender",
at=c(1,2,4,5,7,8),
xlab = "unit(cm)",
col = c("orange", 'red'),
border = "brown",
notch = TRUE)
```

Body measurements boxplot by gender

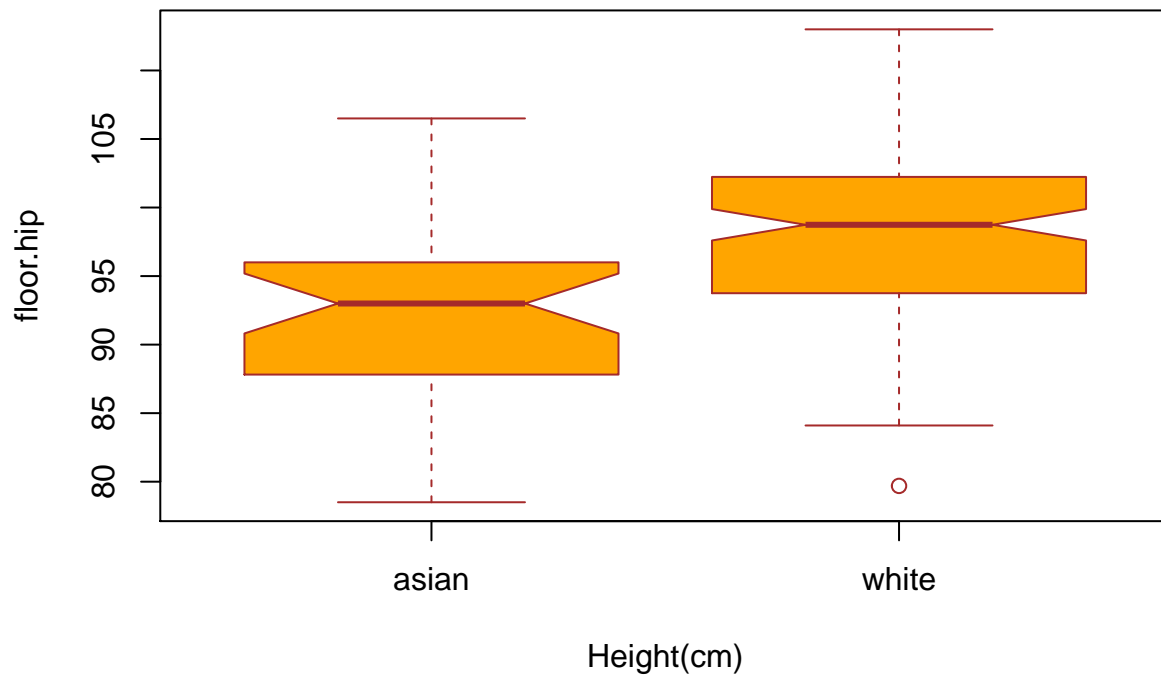



```
col = "orange",
border = "brown",
notch = TRUE)
```



```
boxplot(floor.hip~my.ethnicity,
data = filtered.measure,
main = "Boxplot of leg length comparision by ethnicity",
names=c("asian","white"),
xlab = "Height(cm)",
col = "orange",
border = "brown",
notch = TRUE)
```

Boxplot of leg length comparision by ethnicity

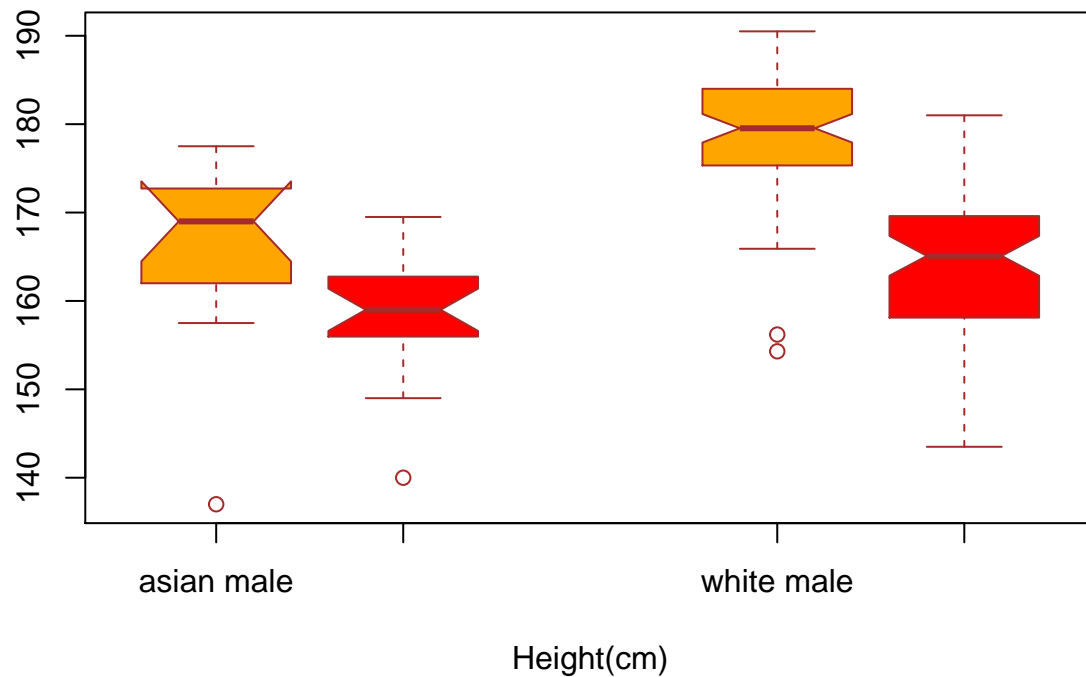


```
a.height.m <- filtered.measure$height[filtered.measure$my.gender == 'm' & filtered.measure$my.ethnicity == 'asian']
a.height.f <- filtered.measure$height[filtered.measure$my.gender == 'f' & filtered.measure$my.ethnicity == 'asian']
w.height.m <- filtered.measure$height[filtered.measure$my.gender == 'm' & filtered.measure$my.ethnicity == 'white']
w.height.f <- filtered.measure$height[filtered.measure$my.gender == 'f' & filtered.measure$my.ethnicity == 'white']

boxplot(a.height.m, a.height.f, w.height.m, w.height.f,
main = "Boxplot of height comparision by gender",
at=c(1,2,4,5),
names=c("asian male", "asian female", "white male", "white female"),
xlab = "Height(cm)",
col = c("orange", 'red'),
border = "brown",
notch = TRUE)
```

```
## Warning in bxp(list(stats = structure(c(157.5, 162, 169, 172.72, 177.5, : some
## notches went outside hinges ('box'): maybe set notch=FALSE
```

Boxplot of height comparision by gender



```
a.height.m <- filtered.measure$height[filtered.measure$my.gender == 'm' & filtered.measure$my.ethnicity == 'asian']
a.height.f <- filtered.measure$height[filtered.measure$my.gender == 'f' & filtered.measure$my.ethnicity == 'asian']
w.height.m <- filtered.measure$height[filtered.measure$my.gender == 'm' & filtered.measure$my.ethnicity == 'white']
w.height.f <- filtered.measure$height[filtered.measure$my.gender == 'f' & filtered.measure$my.ethnicity == 'white']

a.armspan.m <- filtered.measure$arm.span[filtered.measure$my.gender == 'm' & filtered.measure$my.ethnicity == 'asian']
a.armspan.f <- filtered.measure$arm.span[filtered.measure$my.gender == 'f' & filtered.measure$my.ethnicity == 'asian']
w.armspan.m <- filtered.measure$arm.span[filtered.measure$my.gender == 'm' & filtered.measure$my.ethnicity == 'white']
w.armspan.f <- filtered.measure$arm.span[filtered.measure$my.gender == 'f' & filtered.measure$my.ethnicity == 'white']

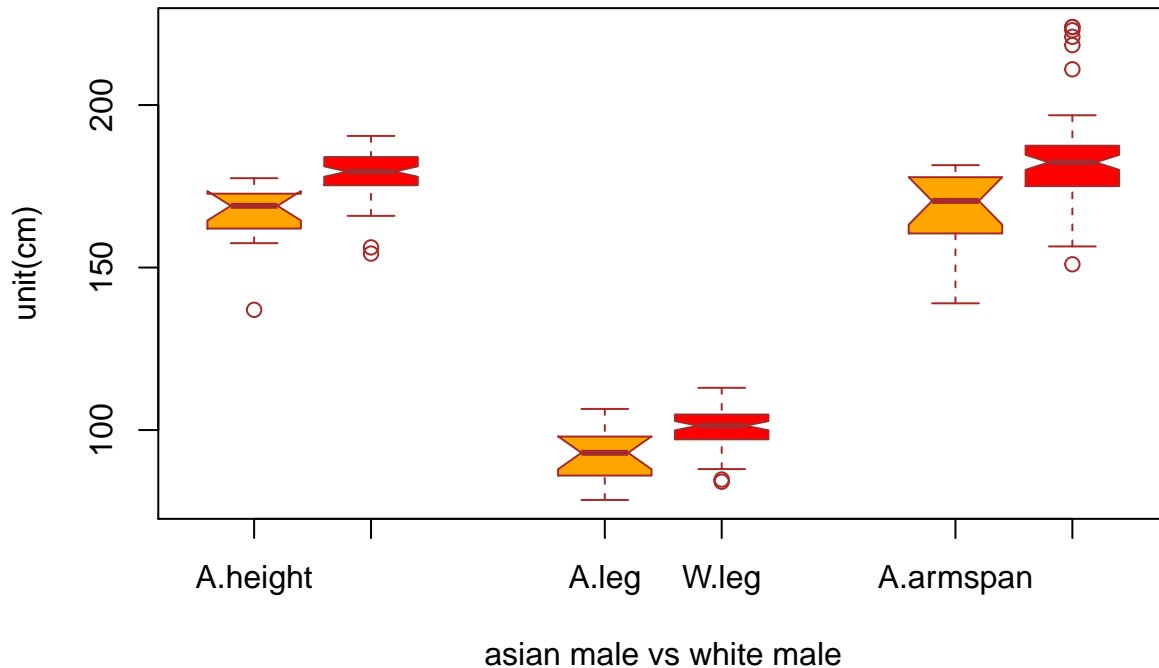
a.leg.m <- filtered.measure$floor.hip[filtered.measure$my.gender == 'm' & filtered.measure$my.ethnicity == 'asian']
a.leg.f <- filtered.measure$floor.hip[filtered.measure$my.gender == 'f' & filtered.measure$my.ethnicity == 'asian']
w.leg.m <- filtered.measure$floor.hip[filtered.measure$my.gender == 'm' & filtered.measure$my.ethnicity == 'white']
w.leg.f <- filtered.measure$floor.hip[filtered.measure$my.gender == 'f' & filtered.measure$my.ethnicity == 'white']

boxplot(a.height.m, w.height.m, a.leg.m, w.leg.m, a.armspan.m, w.armspan.m,
main = "Body measurement comparison between asian male and white male",
at=c(1,2,4,5,7,8),
names=c("A.height", "W.height", "A.leg", "W.leg", "A.armspan", "W.armspan"),
xlab = "asian male vs white male",
ylab = "unit(cm)",
col = c("orange", "red"),
border = "brown",
notch = TRUE)
```

```
## Warning in bxp(list(stats = structure(c(157.5, 162, 169, 172.72, 177.5, : some
```

```
## notches went outside hinges ('box'): maybe set notch=FALSE
```

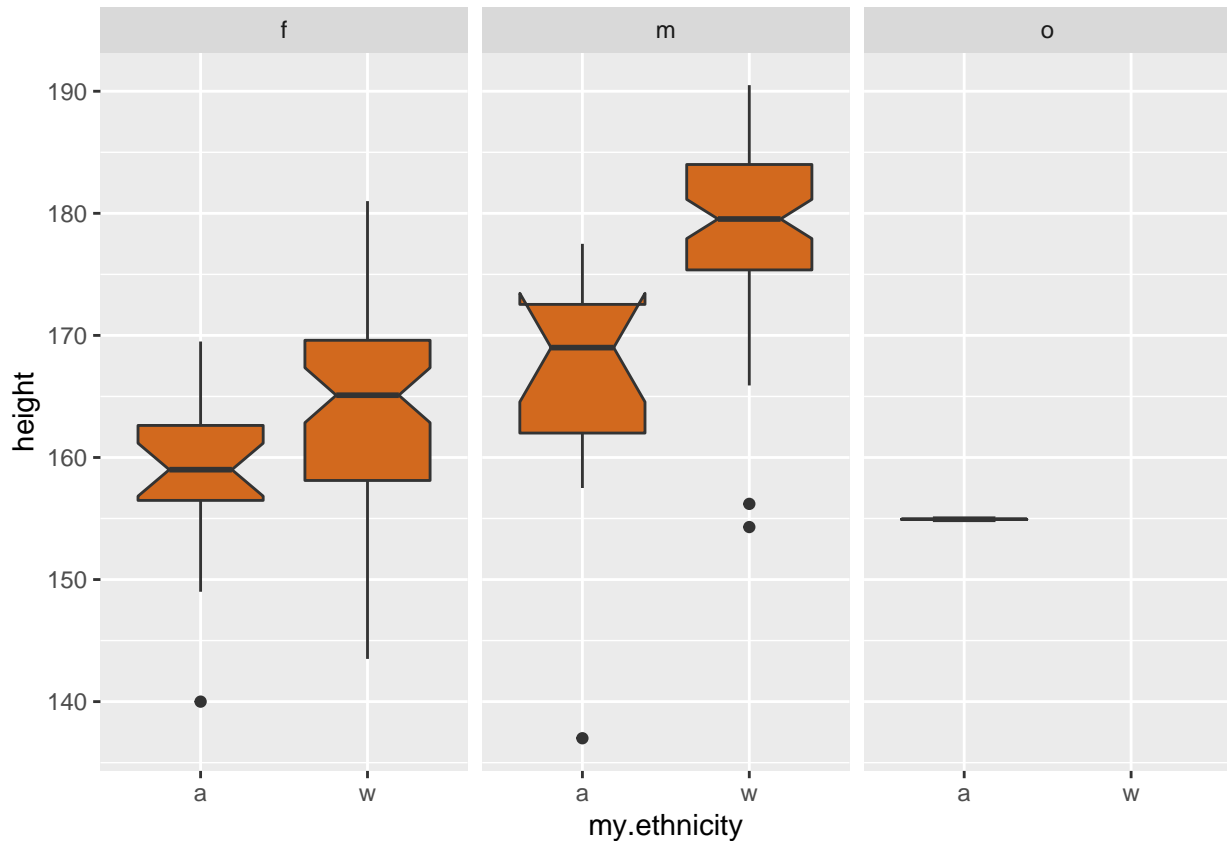
Body measurement comparison between asian male and white male



```
library(ggplot2)

ggplot(filtered.measure, aes(x=my.ethnicity, y=height, fill =my.gender)) +
  geom_boxplot(fill = "chocolate", notch = TRUE)+facet_wrap(~ my.gender)
```

```
## notch went outside hinges. Try setting notch=FALSE.
```



filtered.measure

##	data_collector	person_id
## 1	9c2633aaa2d945bb10608ad13c3a11a9	1cef05bce7879e0ffee01b0cb8d78c32
## 4	9c2633aaa2d945bb10608ad13c3a11a9	51e383ff163861b0e2fc71e939a5b118
## 5	9c2633aaa2d945bb10608ad13c3a11a9	6d672001f80f375570c44439c540bebf
## 6	9c2633aaa2d945bb10608ad13c3a11a9	98569fbc2cb9141f60d0ae5cfa7501cb
## 7	9c2633aaa2d945bb10608ad13c3a11a9	8d98590f4401d70a1d0a04293499b87c
## 8	9c2633aaa2d945bb10608ad13c3a11a9	a9b12538812f18facbfcbd5f2c12663b
## 9	9c2633aaa2d945bb10608ad13c3a11a9	7a87fa2f3e4e4ca864a254fef98ecdc0
## 10	9c2633aaa2d945bb10608ad13c3a11a9	8e231231fb1ab2d42c266670295eee16
## 21	6734f5f4f223d589dc4ff361a310c155	13e647076a48ced264cd8452175c2e15
## 22	6734f5f4f223d589dc4ff361a310c155	1088af35708a5b36f1d4e2bb37acdc7
## 23	6734f5f4f223d589dc4ff361a310c155	e28999163456cff48b783a89fad8c6d9
## 24	6734f5f4f223d589dc4ff361a310c155	09933344d53a61bf9ad3f8e844e173c8
## 25	6734f5f4f223d589dc4ff361a310c155	8643d013d64405966b262a0280c0b197
## 27	6734f5f4f223d589dc4ff361a310c155	5b31d7eefd327c5296826021dd9a4c56
## 28	6734f5f4f223d589dc4ff361a310c155	bc679a3aec3b015b11b5c33673d58a31
## 29	6734f5f4f223d589dc4ff361a310c155	5ae2cd142c4d754f9cf52879c9df4fc0
## 30	6734f5f4f223d589dc4ff361a310c155	112c745f06b882dc111506a76e90a206
## 31	fd36e2b3ec59dbd996587454cbb59725	789951a2bbfbf299b0822cc8452f236f
## 34	fd36e2b3ec59dbd996587454cbb59725	9f719255d46dd8b9b07935d891dc5295
## 35	fd36e2b3ec59dbd996587454cbb59725	06101d4bde60d0ea415206d4ba04572c
## 38	fd36e2b3ec59dbd996587454cbb59725	ac11025453a44a174b69354845b985d5
## 39	fd36e2b3ec59dbd996587454cbb59725	21a0357f2ca81fcfc9e5502e6ba4c5de
## 40	fd36e2b3ec59dbd996587454cbb59725	08982a644b08fcabe920861dcf638039

```
## 41 fd36e2b3ec59dbd996587454cbb59725 7aa407c589c49ea3aa49224367f9aad8
## 75 c51267de031fb6d879a8abf25d260269 1c2408654ef5a2fe1fc962088312266c
## 76 c51267de031fb6d879a8abf25d260269 9b2cfcfa9664443aaa0a5cf1333c7244
## 77 c51267de031fb6d879a8abf25d260269 c45839f19cbf1437468598076cb11a1c
## 78 c51267de031fb6d879a8abf25d260269 5416d60fcbda9d702ccbcee046a3e7cb
## 79 c51267de031fb6d879a8abf25d260269 2420e28d6dd40f144e4484b856092628
## 80 c51267de031fb6d879a8abf25d260269 b4216eec77f3aaf926d1b6a1e1512c8e
## 81 c51267de031fb6d879a8abf25d260269 516c55f4541512c4672db44137aae2c8
## 83 c51267de031fb6d879a8abf25d260269 2bb88f446d3a78151df3ae67ad006e10
## 84 c51267de031fb6d879a8abf25d260269 5a4bb89464c07cc514e9f08ac6190e71
## 85 5a2f371a934f22dffcf1e994cb6eca40 3edc9028bcaab791b8790713cf82d280
## 86 5a2f371a934f22dffcf1e994cb6eca40 04b2eeaf9dcd75f5fcaeec08f76603f2
## 87 5a2f371a934f22dffcf1e994cb6eca40 c775bb281e5479508ec125fa644ff065
## 89 5a2f371a934f22dffcf1e994cb6eca40 c7e8ec1734c9626546d613ca12f9dc57
## 90 5a2f371a934f22dffcf1e994cb6eca40 cff864eff9ec76edf5a6606be92b33b5
## 91 5a2f371a934f22dffcf1e994cb6eca40 19e7e29d12d3eec6776a993acdfca999
## 92 5a2f371a934f22dffcf1e994cb6eca40 35d830aeb7087089a94bd6f4c2119268
## 93 5a2f371a934f22dffcf1e994cb6eca40 df2f92f65e0119382722048c0fe1aaa9
## 96 5a2f371a934f22dffcf1e994cb6eca40 a7ca986d375e45fe72aa5b043c0d207e
## 97 253a0d24ddff7cbe1b9f621870d9d198 ac56ebdc4dda8269a4a2b52a1d6c7850
## 107 feaa341d33cedb0f4f7ec731c84e5ba9 be2c146782bc42ee8a28929e2caae9ba
## 108 feaa341d33cedb0f4f7ec731c84e5ba9 852e3c313e43b1ae48f3d6bb0a6469d3
## 109 feaa341d33cedb0f4f7ec731c84e5ba9 150f21419f5bb180fd931e2fa8640a70
## 117 4258362c2bb0d1f95b05ba2bb2e71be9 cee86ca062c513efc86eb507151fbc09
## 118 4258362c2bb0d1f95b05ba2bb2e71be9 4733a44073c81970cccbca6e1ede188b
## 126 4258362c2bb0d1f95b05ba2bb2e71be9 5052688170956343ecf8371c9921c6be
## 227 5a96f81207a7a619ea2574c7e86cda93 cdfdf4d1cb331c85c789c7401a88d6b3
## 228 5a96f81207a7a619ea2574c7e86cda93 9bca8c56351df29d833cbf3ebcb180a1
## 232 5a96f81207a7a619ea2574c7e86cda93 df09e9a8368e050f75a6f2aa89c2c54c
## 233 5a96f81207a7a619ea2574c7e86cda93 d35f30a55820eb88b89350618eb3a171
## 234 5a96f81207a7a619ea2574c7e86cda93 0a02f10d313ea98a111c9e8323ed385e
## 236 5a96f81207a7a619ea2574c7e86cda93 3409c695fd39d4511ed3dd3d9fa3436f
## 239 a7380c7fdd4f9c977a007c003e42deb8 bd1d7b0809e4b4ee9ca307aa5308ea6f
## 240 a7380c7fdd4f9c977a007c003e42deb8 df3939f11965e7e75dbc046cd9af1c67
## 241 a7380c7fdd4f9c977a007c003e42deb8 dee1225ded7171820b3b974f86164a65
## 242 a7380c7fdd4f9c977a007c003e42deb8 aad627aedbaec238fd7f74e3aa3385e5
## 243 a7380c7fdd4f9c977a007c003e42deb8 571163a3f76efb73cd125ef35b44ea4d
## 244 a7380c7fdd4f9c977a007c003e42deb8 3a444f015555e4667dec80fd853a5033
## 277 00b0bc50a5d4c23ebdac6e69cebf284d cb216e6502316d1466d79b4a18b540cf
## 278 07455b8d275697db40dab95a03f3c208 be6fbe0a469c8ba8b4f2c44e0fe6304d
## 279 21130e0e97a7ce7afdd817c223e9ac64 ca9ff114ef0294d44570b2f047017c45
## 280 07455b8d275697db40dab95a03f3c208 d461230a8b9f2893ad1ec16580afbeb2
## 281 00b0bc50a5d4c23ebdac6e69cebf284d 47216f67cbc4c6ce2dc9d6e41550496d
## 282 00b0bc50a5d4c23ebdac6e69cebf284d b7d7985212d1c5dad1b63a7d529ce904
## 284 cc97268e16b656d42336d456432e1925 c7d12fe45546c973922880529fa8edae
## 285 391737a84a55fb3fc6b1f3e5789cd077 f7c4fadae08200bc74b0fe5368741290
## 297 58056c4dc037cb0dbba1ad30215034da 2cb006f5af92908e10f658a662e1d5dc
## 298 58056c4dc037cb0dbba1ad30215034da 5b6caf13d5494dbcf97f7cbc08fb4474
## 299 58056c4dc037cb0dbba1ad30215034da 25e38df28480f96f016e14a314fe3c78
## 300 58056c4dc037cb0dbba1ad30215034da c2a09d55305b52aad95a25a11f4a6e9f
## 301 58056c4dc037cb0dbba1ad30215034da 739d1aeb9df6ab5010aa49d84ffee8ed
## 302 58056c4dc037cb0dbba1ad30215034da dcb3e11bbe723cfa77314f8e5fd010c7
## 303 58056c4dc037cb0dbba1ad30215034da b08ccacdf72360c9419bed8e73f81fab
## 304 58056c4dc037cb0dbba1ad30215034da d4ec69b42a38a9e3bb885e045e50861a
```

305 28c6a87502875ef92990719df72796de eb85e0caa487a9fd16fac6b15715dcf8
306 58056c4dc037cb0dbba1ad30215034da ee9817b969dbd601e367e777a5de7962
307 e7f9de8678dd0388865077403567b45c 967282cd5d3edbae550d1c4ab643f5ce
308 e7f9de8678dd0388865077403567b45c 8e244595a666e4311a81757ca88371b8
309 e7f9de8678dd0388865077403567b45c 7902ed1386067dae936e6639ba7f85a4
310 e7f9de8678dd0388865077403567b45c 6ea4dc5cd6a84ef12b677bbaabc9fc6f
311 e7f9de8678dd0388865077403567b45c 4eec8ecba9d91f00de594fa5267d1c98
312 e7f9de8678dd0388865077403567b45c 49f34c755408a89228f78967771c175f
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##      height head.height arm.span age hand.length foot.length floor.hip
## 1    152.1000    23.0000 148.2000 21    16.95000    21.65000    87.75000
## 4    164.0000    23.0000 155.0000 23    17.00000    23.00000    88.00000
## 5    181.0000    26.0000 183.0000 23    20.00000    25.00000    99.00000
## 6    156.2000    22.5000 167.5000 63    18.35000    25.40000    96.00000
## 7    154.3000    22.5000 150.1000 59    17.05000    21.95000    89.50000
## 8    154.3000    23.0000 151.0000 23    17.00000    22.00000    88.00000
## 9    172.7000    20.0000 154.0000 20    18.00000    26.00000    96.00000
## 10   164.0000    23.0000 154.3000 26    17.00000    23.30000    88.00000
## 21   145.0000    18.8000 141.7000 87    17.00000    21.80000    88.90000
## 22   181.0000    24.3000 176.0000 30    17.90000    24.90000   105.00000
## 23   152.6000    18.3000 159.6000 60    17.20000    22.75000    90.15000
## 24   169.5000    21.0000 165.0000 20    18.35000    23.65000   103.35000

```


## 25	164.9000	19.1000	151.9000	47	17.20000	22.30000	99.50000
## 27	177.8000	20.5000	182.8000	26	18.60000	26.20000	102.45000
## 28	168.3000	22.2000	165.7000	27	17.20000	23.65000	95.25000
## 29	170.1000	22.5000	168.6000	26	17.15000	21.75000	101.40000
## 30	151.6000	19.9000	156.0000	61	16.30000	22.15000	95.60000
## 31	177.1650	23.4950	184.1500	38	19.20875	28.57500	104.45750
## 34	181.6100	23.4950	182.2450	36	19.84375	26.67000	108.42625
## 35	161.2900	22.8600	160.6550	36	17.46250	22.22500	97.15500
## 38	166.6875	21.9075	167.3225	35	18.17688	24.92375	95.56750
## 39	157.4800	22.2250	157.4800	52	16.35125	22.54250	93.34500
## 40	179.0700	23.1775	183.1975	59	20.32000	26.03500	106.83875
## 41	158.1150	22.2250	160.6550	57	17.30375	23.81250	95.72625
## 75	178.0000	21.0000	176.0000	47	19.25000	26.50000	93.75000
## 76	181.6100	20.3200	218.4400	22	17.78000	25.40000	99.03000
## 77	175.4000	19.6000	211.0000	23	17.05000	24.00000	95.65000
## 78	161.0000	18.0000	193.0000	20	16.00000	22.50000	88.00000
## 79	165.0000	18.5000	198.5000	52	16.00000	23.00000	90.00000
## 80	186.0000	21.0000	224.0000	61	18.00000	26.00000	101.00000
## 81	184.0000	20.5000	221.0000	25	18.00000	26.00000	100.00000
## 83	185.5000	21.0000	223.0000	26	18.00000	26.00000	101.00000
## 84	185.0000	21.0000	224.0000	22	18.00000	26.00000	101.50000
## 85	183.0000	23.0000	183.0000	21	19.50000	28.00000	106.00000
## 86	166.5000	20.5000	164.0000	20	18.00000	23.00000	100.75000
## 87	157.5000	23.0000	160.0000	23	18.00000	23.00000	82.25000
## 89	178.0000	23.0000	171.0000	54	20.00000	26.75000	100.50000
## 90	168.0000	20.0000	166.0000	61	19.50000	25.25000	102.00000
## 91	170.0000	27.0000	174.0000	20	17.75000	24.00000	94.00000
## 92	178.0000	24.0000	180.5000	22	18.50000	25.75000	100.50000
## 93	183.0000	25.0000	162.0000	23	21.00000	29.00000	103.00000
## 96	185.0000	24.0000	192.0000	57	21.00000	28.50000	113.00000
## 97	175.2600	24.1300	179.7050	35	19.49450	25.08250	93.98000
## 107	175.2600	23.4950	180.9750	21	18.87500	24.44750	97.15500
## 108	165.1000	21.5900	162.5600	21	16.51000	22.86000	101.28250
## 109	177.8000	24.7650	187.9600	21	19.68500	27.62250	98.10750
## 117	187.9600	23.4950	196.8500	46	20.32000	29.21000	104.14000
## 118	161.2900	20.3200	158.7500	44	17.78000	22.86000	92.07500
## 126	180.5000	21.5000	179.0000	26	18.75000	26.75000	98.75000
## 227	143.5000	22.0000	165.0000	24	17.00000	23.75000	100.50000
## 228	177.0000	24.0000	175.0000	27	19.00000	27.50000	101.50000
## 232	166.0000	20.0000	160.0000	51	18.75000	27.25000	100.50000
## 233	174.0000	22.0000	175.0000	28	19.00000	24.25000	103.00000
## 234	183.0000	23.0000	172.0000	30	19.00000	26.75000	95.50000
## 236	178.0000	23.0000	177.0000	19	20.00000	25.25000	103.50000
## 239	157.4800	20.0000	165.1000	41	16.50000	23.50000	94.00000
## 240	174.6250	23.5000	180.3400	45	19.50000	26.50000	103.00000
## 241	167.0000	22.0000	171.0000	30	20.00000	26.00000	102.00000
## 242	170.0000	24.0000	175.0000	33	21.00000	27.00000	105.00000
## 243	154.0000	21.0000	155.0000	21	16.60000	23.35000	96.15000
## 244	167.6400	24.0000	177.8000	21	18.00000	35.50000	101.00000
## 277	180.5000	26.5000	181.5000	29	21.50000	28.50000	100.50000
## 278	160.0000	20.0000	157.0000	57	18.00000	25.25000	96.50000
## 279	175.0000	24.0000	180.0000	50	24.00000	28.00000	104.25000
## 280	180.0000	23.0000	185.0000	24	20.50000	28.00000	101.50000
## 281	158.0000	24.5000	161.5000	23	16.50000	23.00000	97.25000

## 282	182.5000	25.0000	186.0000	23	19.00000	26.00000	108.00000
## 284	181.0000	25.5000	182.5000	56	22.00000	28.50000	95.50000
## 285	155.0000	22.0000	154.0000	56	17.50000	24.50000	94.50000
## 297	156.2100	20.3200	153.0350	28	16.51000	21.79320	88.58250
## 298	177.8000	23.4950	187.9600	27	18.83410	27.07640	102.33660
## 299	152.0825	20.9550	149.8600	61	18.98650	21.99640	86.48700
## 300	176.9364	20.9550	177.4825	61	20.95500	25.11425	100.11410
## 301	161.9250	19.0500	160.6550	54	18.41500	24.13000	93.98000
## 302	182.8800	22.8600	186.6900	55	19.05000	26.03500	107.63250
## 303	160.0200	21.1582	158.1150	63	17.78000	22.86000	86.80450
## 304	168.2750	20.5740	172.0850	28	17.78000	24.33320	102.85730
## 305	187.9600	20.3200	191.1350	27	20.00250	27.62250	104.77500
## 306	165.1000	20.9550	166.3700	36	17.78000	22.54250	96.08820
## 307	173.0000	22.0000	173.0000	23	17.75000	26.00000	96.00000
## 308	167.0000	18.0000	167.0000	25	18.00000	25.00000	94.75000
## 309	157.0000	19.0000	159.0000	50	16.50000	23.00000	88.50000
## 310	158.0000	24.0000	146.0000	94	17.00000	24.00000	89.50000
## 311	162.0000	22.5000	163.0000	72	18.50000	24.00000	96.00000
## 312	168.0000	28.0000	177.0000	72	19.00000	25.00000	93.50000
## 313	151.0000	20.0000	165.0000	76	18.00000	24.00000	95.75000
## 314	149.0000	29.0000	148.0000	68	16.50000	22.50000	93.25000
## 315	159.0000	23.0000	167.0000	75	16.75000	22.50000	93.00000
## 316	162.0000	22.5000	160.5000	77	17.75000	24.00000	98.00000
## 317	173.9900	25.0825	181.6100	27	18.89125	25.40000	89.53500
## 318	170.1800	18.4150	172.7200	58	16.51000	23.49500	96.52000
## 319	177.8000	25.4000	182.8800	52	17.78000	26.67000	105.41000
## 320	152.4000	24.1300	152.4000	53	15.87500	21.59000	87.63000
## 322	161.9250	19.6850	158.1150	61	17.46250	23.81250	79.69250
## 323	162.5600	21.5900	161.2900	68	17.78000	24.44750	90.17000
## 324	180.3400	20.3200	182.8800	69	18.41500	25.71750	102.23500
## 326	184.1500	20.9550	186.6900	30	19.05000	28.25750	104.77500
## 327	158.0000	22.0000	159.5000	62	17.00000	21.75000	92.50000
## 328	172.0000	24.0000	168.0000	68	19.50000	25.25000	100.00000
## 329	190.5000	22.2500	193.0000	36	21.00000	28.37500	105.12500
## 330	180.2500	21.5000	185.5000	42	19.87500	26.75000	109.00000
## 331	158.0000	20.5000	166.0000	33	16.75000	23.50000	84.75000
## 332	178.0000	22.0000	174.0000	34	17.50000	23.50000	102.50000
## 333	173.0000	20.0000	179.0000	36	18.25000	26.50000	100.75000
## 334	162.5000	20.3000	165.0000	38	17.40000	22.30000	96.50000
## 335	168.0000	20.0000	165.0000	40	18.00000	24.42500	91.50000
## 338	158.0000	21.5000	162.0000	23	18.00000	23.25000	88.00000
## 339	137.0000	23.0000	139.0000	31	17.50000	22.00000	78.50000
## 340	162.0000	24.0000	164.0000	60	20.25000	23.75000	86.00000
## 341	160.0000	23.0000	159.0000	52	19.00000	23.50000	83.50000
## 342	171.0000	23.0000	171.5000	64	19.00000	26.00000	96.50000
## 343	140.0000	20.0000	143.0000	47	17.00000	21.00000	79.00000
## 347	182.8800	23.4950	193.0400	25	19.05000	27.94000	99.06000
## 348	170.1800	38.1000	158.7500	26	17.46250	23.81250	90.17000
## 351	176.5300	19.0500	184.6580	58	19.93900	26.92400	107.18800
## 353	177.1650	20.9550	175.8950	24	18.41500	23.49500	100.01250
## 354	170.1800	22.8600	171.4500	28	18.41500	24.76500	92.07500
## 355	187.4520	22.2250	191.5160	59	20.82800	29.59100	112.39500
## 356	172.7200	21.5900	173.0375	28	18.41500	23.17750	98.74250
## 357	175.6000	21.0000	176.2000	21	18.40000	26.35000	94.75000

```

## 358 175.5000      20.0000 178.0000 22      19.90000      25.50000      93.00000
## 359 176.0000      20.5000 178.0000 58      20.05000      26.55000      94.00000
## 361 169.6000      20.6000 163.0000 51      17.00000      24.20000      89.00000
## 362 165.9000      21.0000 166.5000 53      17.80000      24.20000      84.10000
## 363 168.0000      23.0000 172.0000 21      17.00000      24.40000      87.90000
## 364 168.5000      21.0000 170.0000 55      18.90000      25.75000      91.75000
## 365 186.0000      21.5000 188.8000 56      20.00000      28.25000      96.25000
## 366 170.0000      18.5000 176.0000 22      19.00000      26.00000      93.00000
## 367 168.9000      21.5000 174.0000 28      19.00000      24.30000      96.75000
## 368 181.0000      22.8000 190.5000 38      19.70000      26.70000     103.20000
## 369 160.0000      22.0000 157.5000 28      17.20000      22.00000      91.00000
## 370 173.0000      25.0000 182.0000 29      18.90000      25.00000      98.50000
## 371 163.0000      22.0000 170.0000 63      17.10000      24.15000      92.10000
## 372 185.4000      24.3000 181.6000 32      18.40000      30.50000     101.60000
## 373 163.0000      21.0000 147.3000 29      15.00000      22.15000      91.45000
## 382 172.7200      21.5900 177.8000 22      21.59000      26.67000      82.55000
## 383 177.8000      21.5900 185.4200 21      22.22500      27.94000      84.77250
## 384 152.4000      19.6850 154.9400 22      15.87500      21.90750      84.77250
## 386 167.6400      19.6850 177.8000 19      18.41500      26.67000      87.63000
## 387 167.5000      25.0000 158.0000 21      19.50000      24.00000      95.75000
## 388 172.5000      22.5000 174.5000 25      20.00000      25.25000     101.25000
## 390 189.0000      22.0000 185.8000 23      19.75000      26.30000     110.50000
## 391 182.0000      23.5000 182.5000 21      20.40000      26.05000     113.00000
## 392 180.5000      22.0000 177.5000 20      19.70000      26.60000     107.25000
## 393 172.0850      22.8600 168.9100 55      18.41500      26.98750      97.15500
## 394 157.4800      20.3200 152.4000 53      17.78000      22.86000      88.90000
## 395 154.9400      21.5900 152.4000 20      18.41500      21.59000      83.18500
## 396 177.5000      24.0000 181.5000 26      19.35000      25.50000     106.50000
## 397 185.0000      23.0000 196.0000 28      19.00000      27.00000     103.00000
## 398 188.0000      22.5000 187.0000 25      19.50000      26.00000     101.00000
## 399 184.0000      24.0000 183.0000 24      21.00000      26.00000     105.50000
## 400 173.0000      22.0000 173.0000 50      17.00000      24.00000      99.00000
## 401 178.0000      24.0000 183.0000 52      21.00000      27.00000     101.00000
## 403 184.5000      24.0000 190.5000 21      20.00000      28.00000      95.75000
## 404 165.0000      23.0000 167.5000 27      18.00000      23.75000      99.00000
## 406 158.0000      23.0000 163.0000 25      17.00000      23.00000      96.00000
## 407 163.8000      20.8000 171.4000 22      17.35000      22.65000      91.25000
## 408 167.6000      21.0000 165.8000 25      17.35000      21.85000      99.85000
## 409 166.9000      20.8000 157.2260 25      16.85000      22.15000      92.05000
## 410 160.2000      21.5900 161.5000 55      17.75000      38.75000      96.75000
## 411 189.4000      21.3000 175.1000 55      19.30000      28.90000     101.10000
## 412 165.7000      21.7000 163.6000 22      15.25000      21.75000      98.60000
## 413 166.6000      20.1000 169.7000 22      16.45000      24.15000      90.65000
## 414 176.8000      20.1000 175.3000 21      16.65000      25.65000      87.80000
## 416 172.2000      19.1000 173.4000 26      17.60000      24.90000      91.70000
## 417 188.0000      24.5000 156.5000 53      20.25000      28.75000     112.50000
## 418 170.1800      25.4000 171.5000 53      18.75000      22.25000      92.75000
## 419 154.9400      20.9550 154.9400 49      19.59250      24.38400      93.24000
## 420 164.4650      20.9550 161.2900 20      18.57375      21.59000      94.79000
## 421 177.8000      22.8600 185.4200 40      20.00250      27.62250     110.49000
## 424 176.5300      21.5900 180.3400 43      19.68500      25.40000     101.28250
## 425 171.4500      20.3200 170.1800 42      17.78000      24.13000      95.88500
##      my.ethnicity my.gender new.units height/height head.height/height
## 1              w          f          cm              1          0.1512163

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## 4	w	f	cm	1	0.1402439
## 5	w	f	cm	1	0.1436464
## 6	w	m	cm	1	0.1440461
## 7	w	f	cm	1	0.1458198
## 8	w	m	cm	1	0.1490603
## 9	w	f	cm	1	0.1158078
## 10	w	f	cm	1	0.1402439
## 21	w	f	cm	1	0.1296552
## 22	w	m	cm	1	0.1342541
## 23	w	f	cm	1	0.1199214
## 24	a	f	cm	1	0.1238938
## 25	w	f	cm	1	0.1158278
## 27	w	m	cm	1	0.1152981
## 28	w	f	cm	1	0.1319073
## 29	w	m	cm	1	0.1322751
## 30	w	f	cm	1	0.1312665
## 31	w	m	cm	1	0.1326165
## 34	w	m	cm	1	0.1293706
## 35	w	f	cm	1	0.1417323
## 38	w	f	cm	1	0.1314286
## 39	w	f	cm	1	0.1411290
## 40	w	m	cm	1	0.1294326
## 41	w	f	cm	1	0.1405622
## 75	w	m	cm	1	0.1179775
## 76	w	m	cm	1	0.1118881
## 77	w	m	cm	1	0.1117446
## 78	w	f	cm	1	0.1118012
## 79	w	f	cm	1	0.1121212
## 80	w	m	cm	1	0.1129032
## 81	w	m	cm	1	0.1114130
## 83	w	m	cm	1	0.1132075
## 84	w	m	cm	1	0.1135135
## 85	w	m	cm	1	0.1256831
## 86	w	f	cm	1	0.1231231
## 87	a	m	cm	1	0.1460317
## 89	w	m	cm	1	0.1292135
## 90	w	f	cm	1	0.1190476
## 91	w	f	cm	1	0.1588235
## 92	w	m	cm	1	0.1348315
## 93	w	m	cm	1	0.1366120
## 96	w	m	cm	1	0.1297297
## 97	w	m	cm	1	0.1376812
## 107	w	m	cm	1	0.1340580
## 108	w	f	cm	1	0.1307692
## 109	w	m	cm	1	0.1392857
## 117	w	m	cm	1	0.1250000
## 118	a	f	cm	1	0.1259843
## 126	w	m	cm	1	0.1191136
## 227	w	f	cm	1	0.1533101
## 228	w	m	cm	1	0.1355932
## 232	w	f	cm	1	0.1204819
## 233	w	f	cm	1	0.1264368
## 234	w	m	cm	1	0.1256831
## 236	w	m	cm	1	0.1292135

## 239	w	f	cm	1	0.1270003
## 240	w	m	cm	1	0.1345741
## 241	w	f	cm	1	0.1317365
## 242	w	m	cm	1	0.1411765
## 243	a	f	cm	1	0.1363636
## 244	w	f	cm	1	0.1431639
## 277	w	m	cm	1	0.1468144
## 278	w	f	cm	1	0.1250000
## 279	w	m	cm	1	0.1371429
## 280	w	m	cm	1	0.1277778
## 281	w	f	cm	1	0.1550633
## 282	w	m	cm	1	0.1369863
## 284	w	m	cm	1	0.1408840
## 285	w	f	cm	1	0.1419355
## 297	w	f	cm	1	0.1300813
## 298	w	m	cm	1	0.1321429
## 299	w	f	cm	1	0.1377871
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## 301	w	f	cm	1	0.1176471
## 302	w	m	cm	1	0.1250000
## 303	w	f	cm	1	0.1322222
## 304	w	f	cm	1	0.1222642
## 305	w	m	cm	1	0.1081081
## 306	w	f	cm	1	0.1269231
## 307	a	m	cm	1	0.1271676
## 308	a	f	cm	1	0.1077844
## 309	a	f	cm	1	0.1210191
## 310	a	f	cm	1	0.1518987
## 311	a	f	cm	1	0.1388889
## 312	a	m	cm	1	0.1666667
## 313	a	f	cm	1	0.1324503
## 314	a	f	cm	1	0.1946309
## 315	a	m	cm	1	0.1446541
## 316	a	m	cm	1	0.1388889
## 317	w	m	cm	1	0.1441606
## 318	w	f	cm	1	0.1082090
## 319	w	m	cm	1	0.1428571
## 320	w	f	cm	1	0.1583333
## 322	w	f	cm	1	0.1215686
## 323	w	f	cm	1	0.1328125
## 324	w	m	cm	1	0.1126761
## 326	w	m	cm	1	0.1137931
## 327	a	f	cm	1	0.1392405
## 328	a	m	cm	1	0.1395349
## 329	w	m	cm	1	0.1167979
## 330	w	f	cm	1	0.1192788
## 331	a	f	cm	1	0.1297468
## 332	w	m	cm	1	0.1235955
## 333	a	m	cm	1	0.1156069
## 334	a	f	cm	1	0.1249231
## 335	w	m	cm	1	0.1190476
## 338	a	f	cm	1	0.1360759
## 339	a	m	cm	1	0.1678832
## 340	a	m	cm	1	0.1481481

## 341	a	f	cm	1	0.1437500
## 342	w	m	cm	1	0.1345029
## 343	a	f	cm	1	0.1428571
## 347	w	m	cm	1	0.1284722
## 348	a	m	cm	1	0.2238806
## 351	w	f	cm	1	0.1079137
## 353	w	f	cm	1	0.1182796
## 354	w	m	cm	1	0.1343284
## 355	w	m	cm	1	0.1185637
## 356	w	f	cm	1	0.1250000
## 357	w	f	cm	1	0.1195900
## 358	w	f	cm	1	0.1139601
## 359	w	f	cm	1	0.1164773
## 361	w	f	cm	1	0.1214623
## 362	w	m	cm	1	0.1265823
## 363	w	f	cm	1	0.1369048
## 364	w	f	cm	1	0.1246291
## 365	w	m	cm	1	0.1155914
## 366	a	m	cm	1	0.1088235
## 367	a	f	cm	1	0.1272943
## 368	w	m	cm	1	0.1259669
## 369	a	f	cm	1	0.1375000
## 370	w	m	cm	1	0.1445087
## 371	a	f	cm	1	0.1349693
## 372	w	m	cm	1	0.1310680
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## 382	a	m	cm	1	0.1250000
## 383	w	m	cm	1	0.1214286
## 384	w	f	cm	1	0.1291667
## 386	a	m	cm	1	0.1174242
## 387	w	m	cm	1	0.1492537
## 388	w	m	cm	1	0.1304348
## 390	w	m	cm	1	0.1164021
## 391	w	m	cm	1	0.1291209
## 392	w	m	cm	1	0.1218837
## 393	w	m	cm	1	0.1328413
## 394	w	f	cm	1	0.1290323
## 395	a	o	cm	1	0.1393443
## 396	a	m	cm	1	0.1352113
## 397	w	m	cm	1	0.1243243
## 398	w	m	cm	1	0.1196809
## 399	w	m	cm	1	0.1304348
## 400	w	f	cm	1	0.1271676
## 401	w	m	cm	1	0.1348315
## 403	w	m	cm	1	0.1300813
## 404	w	f	cm	1	0.1393939
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## 425	w	f	cm	1	0.1185185
##	arm.span/height	hand.length/height	foot.length/height	floor.hip/height	
## 1	0.9743590	0.11143984	0.1423406	0.5769231	
## 4	0.9451220	0.10365854	0.1402439	0.5365854	
## 5	1.0110497	0.11049724	0.1381215	0.5469613	
## 6	1.0723431	0.11747759	0.1626120	0.6145967	
## 7	0.9727803	0.11049903	0.1422553	0.5800389	
## 8	0.9786131	0.11017498	0.1425794	0.5703176	
## 9	0.8917197	0.10422698	0.1505501	0.5558772	
## 10	0.9408537	0.10365854	0.1420732	0.5365854	
## 21	0.9772414	0.11724138	0.1503448	0.6131034	
## 22	0.9723757	0.09889503	0.1375691	0.5801105	
## 23	1.0458716	0.11271298	0.1490826	0.5907602	
## 24	0.9734513	0.10825959	0.1395280	0.6097345	
## 25	0.9211643	0.10430564	0.1352335	0.6033960	
## 27	1.0281215	0.10461192	0.1473566	0.5762092	
## 28	0.9845514	0.10219846	0.1405229	0.5659537	
## 29	0.9911817	0.10082305	0.1278660	0.5961199	
## 30	1.0290237	0.10751979	0.1461082	0.6306069	
## 31	1.0394265	0.10842294	0.1612903	0.5896057	
## 34	1.0034965	0.10926573	0.1468531	0.5970280	
## 35	0.9960630	0.10826772	0.1377953	0.6023622	
## 38	1.0038095	0.10904762	0.1495238	0.5733333	
## 39	1.0000000	0.10383065	0.1431452	0.5927419	
## 40	1.0230496	0.11347518	0.1453901	0.5966312	
## 41	1.0160643	0.10943775	0.1506024	0.6054217	
## 75	0.9887640	0.10814607	0.1488764	0.5266854	
## 76	1.2027972	0.09790210	0.1398601	0.5452894	
## 77	1.2029647	0.09720639	0.1368301	0.5453250	
## 78	1.1987578	0.09937888	0.1397516	0.5465839	
## 79	1.2030303	0.09696970	0.1393939	0.5454545	
## 80	1.2043011	0.09677419	0.1397849	0.5430108	
## 81	1.2010870	0.09782609	0.1413043	0.5434783	
## 83	1.2021563	0.09703504	0.1401617	0.5444744	
## 84	1.2108108	0.09729730	0.1405405	0.5486486	
## 85	1.0000000	0.10655738	0.1530055	0.5792350	
## 86	0.9849850	0.10810811	0.1381381	0.6051051	
## 87	1.0158730	0.11428571	0.1460317	0.5222222	
## 89	0.9606742	0.11235955	0.1502809	0.5646067	
## 90	0.9880952	0.11607143	0.1502976	0.6071429	
## 91	1.0235294	0.10441176	0.1411765	0.5529412	
## 92	1.0140449	0.10393258	0.1446629	0.5646067	
## 93	0.8852459	0.11475410	0.1584699	0.5628415	
## 96	1.0378378	0.11351351	0.1540541	0.6108108	
## 97	1.0253623	0.11123188	0.1431159	0.5362319	
## 107	1.0326087	0.10769714	0.1394928	0.5543478	

## 108	0.9846154	0.10000000	0.1384615	0.6134615
## 109	1.0571429	0.11071429	0.1553571	0.5517857
## 117	1.0472973	0.10810811	0.1554054	0.5540541
## 118	0.9842520	0.11023622	0.1417323	0.5708661
## 126	0.9916898	0.10387812	0.1481994	0.5470914
## 227	1.1498258	0.11846690	0.1655052	0.7003484
## 228	0.9887006	0.10734463	0.1553672	0.5734463
## 232	0.9638554	0.11295181	0.1641566	0.6054217
## 233	1.0057471	0.10919540	0.1393678	0.5919540
## 234	0.9398907	0.10382514	0.1461749	0.5218579
## 236	0.9943820	0.11235955	0.1418539	0.5814607
## 239	1.0483871	0.10477521	0.1492253	0.5969012
## 240	1.0327273	0.11166786	0.1517538	0.5898354
## 241	1.0239521	0.11976048	0.1556886	0.6107784
## 242	1.0294118	0.12352941	0.1588235	0.6176471
## 243	1.0064935	0.10779221	0.1516234	0.6243506
## 244	1.0606061	0.10737294	0.2117633	0.6024815
## 277	1.0055402	0.11911357	0.1578947	0.5567867
## 278	0.9812500	0.11250000	0.1578125	0.6031250
## 279	1.0285714	0.13714286	0.1600000	0.5957143
## 280	1.0277778	0.11388889	0.1555556	0.5638889
## 281	1.0221519	0.10443038	0.1455696	0.6155063
## 282	1.0191781	0.10410959	0.1424658	0.5917808
## 284	1.0082873	0.12154696	0.1574586	0.5276243
## 285	0.9935484	0.11290323	0.1580645	0.6096774
## 297	0.9796748	0.10569106	0.1395122	0.5670732
## 298	1.0571429	0.10592857	0.1522857	0.5755714
## 299	0.9853862	0.12484342	0.1446347	0.5686848
## 300	1.0030864	0.11843239	0.1419394	0.5658197
## 301	0.9921569	0.11372549	0.1490196	0.5803922
## 302	1.0208333	0.10416667	0.1423611	0.5885417
## 303	0.9880952	0.11111111	0.1428571	0.5424603
## 304	1.0226415	0.10566038	0.1446038	0.6112453
## 305	1.0168919	0.10641892	0.1469595	0.5574324
## 306	1.0076923	0.10769231	0.1365385	0.5820000
## 307	1.0000000	0.10260116	0.1502890	0.5549133
## 308	1.0000000	0.10778443	0.1497006	0.5673653
## 309	1.0127389	0.10509554	0.1464968	0.5636943
## 310	0.9240506	0.10759494	0.1518987	0.5664557
## 311	1.0061728	0.11419753	0.1481481	0.5925926
## 312	1.0535714	0.11309524	0.1488095	0.5565476
## 313	1.0927152	0.11920530	0.1589404	0.6341060
## 314	0.9932886	0.11073826	0.1510067	0.6258389
## 315	1.0503145	0.10534591	0.1415094	0.5849057
## 316	0.9907407	0.10956790	0.1481481	0.6049383
## 317	1.0437956	0.10857664	0.1459854	0.5145985
## 318	1.0149254	0.09701493	0.1380597	0.5671642
## 319	1.0285714	0.10000000	0.1500000	0.5928571
## 320	1.0000000	0.10416667	0.1416667	0.5750000
## 322	0.9764706	0.10784314	0.1470588	0.4921569
## 323	0.9921875	0.10937500	0.1503906	0.5546875
## 324	1.0140845	0.10211268	0.1426056	0.5669014
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## 327	1.0094937	0.10759494	0.1376582	0.5854430

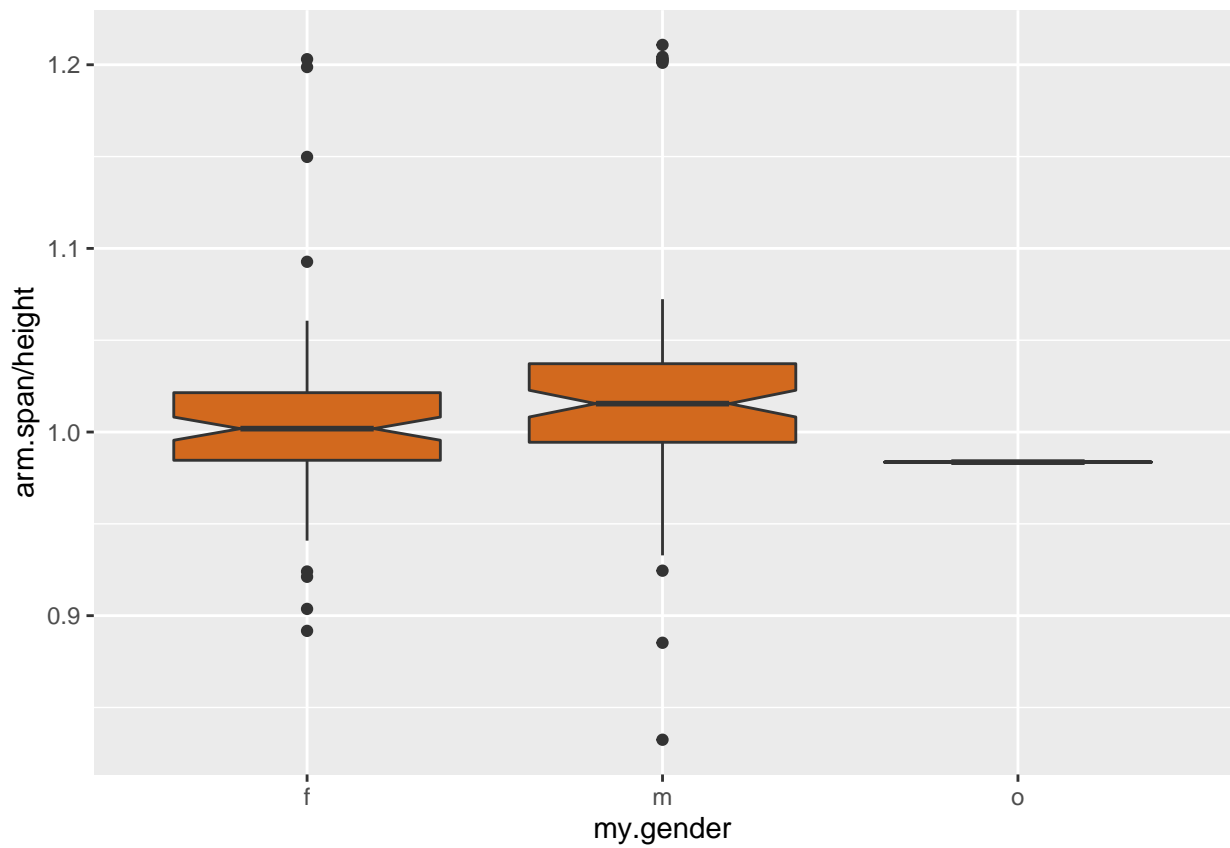
## 328	0.9767442	0.11337209	0.1468023	0.5813953
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## 331	1.0506329	0.10601266	0.1487342	0.5363924
## 332	0.9775281	0.09831461	0.1320225	0.5758427
## 333	1.0346821	0.10549133	0.1531792	0.5823699
## 334	1.0153846	0.10707692	0.1372308	0.5938462
## 335	0.9821429	0.10714286	0.1453869	0.5446429
## 338	1.0253165	0.11392405	0.1471519	0.5569620
## 339	1.0145985	0.12773723	0.1605839	0.5729927
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## 341	0.9937500	0.11875000	0.1468750	0.5218750
## 342	1.0029240	0.11111111	0.1520468	0.5643275
## 343	1.0214286	0.12142857	0.1500000	0.5642857
## 347	1.0555556	0.10416667	0.1527778	0.5416667
## 348	0.9328358	0.10261194	0.1399254	0.5298507
## 351	1.0460432	0.11294964	0.1525180	0.6071942
## 353	0.9928315	0.10394265	0.1326165	0.5645161
## 354	1.0074627	0.10820896	0.1455224	0.5410448
## 355	1.0216802	0.11111111	0.1578591	0.5995935
## 356	1.0018382	0.10661765	0.1341912	0.5716912
## 357	1.0034169	0.10478360	0.1500569	0.5395786
## 358	1.0142450	0.11339031	0.1452991	0.5299145
## 359	1.0113636	0.11392045	0.1508523	0.5340909
## 361	0.9610849	0.10023585	0.1426887	0.5247642
## 362	1.0036166	0.10729355	0.1458710	0.5069319
## 363	1.0238095	0.10119048	0.1452381	0.5232143
## 364	1.0089021	0.11216617	0.1528190	0.5445104
## 365	1.0150538	0.10752688	0.1518817	0.5174731
## 366	1.0352941	0.11176471	0.1529412	0.5470588
## 367	1.0301954	0.11249260	0.1438721	0.5728242
## 368	1.0524862	0.10883978	0.1475138	0.5701657
## 369	0.9843750	0.10750000	0.1375000	0.5687500
## 370	1.0520231	0.10924855	0.1445087	0.5693642
## 371	1.0429448	0.10490798	0.1481595	0.5650307
## 372	0.9795038	0.09924488	0.1645092	0.5480043
## 373	0.9036810	0.09202454	0.1358896	0.5610429
## 382	1.0294118	0.12500000	0.1544118	0.4779412
## 383	1.0428571	0.12500000	0.1571429	0.4767857
## 384	1.0166667	0.10416667	0.1437500	0.5562500
## 386	1.0606061	0.10984848	0.1590909	0.5227273
## 387	0.9432836	0.11641791	0.1432836	0.5716418
## 388	1.0115942	0.11594203	0.1463768	0.5869565
## 390	0.9830688	0.10449735	0.1391534	0.5846561
## 391	1.0027473	0.11208791	0.1431319	0.6208791
## 392	0.9833795	0.10914127	0.1473684	0.5941828
## 393	0.9815498	0.10701107	0.1568266	0.5645756
## 394	0.9677419	0.11290323	0.1451613	0.5645161
## 395	0.9836066	0.11885246	0.1393443	0.5368852
## 396	1.0225352	0.10901408	0.1436620	0.6000000
## 397	1.0594595	0.10270270	0.1459459	0.5567568
## 398	0.9946809	0.10372340	0.1382979	0.5372340
## 399	0.9945652	0.11413043	0.1413043	0.5733696
## 400	1.0000000	0.09826590	0.1387283	0.5722543

```
## 401      1.0280899      0.11797753      0.1516854      0.5674157
## 403      1.0325203      0.10840108      0.1517615      0.5189702
## 404      1.0151515      0.10909091      0.1439394      0.6000000
## 406      1.0316456      0.10759494      0.1455696      0.6075949
## 407      1.0463980      0.10592186      0.1382784      0.5570818
## 408      0.9892601      0.10352029      0.1303699      0.5957637
## 409      0.9420371      0.10095866      0.1327142      0.5515279
## 410      1.0081149      0.11079900      0.2418851      0.6039326
## 411      0.9244984      0.10190074      0.1525871      0.5337909
## 412      0.9873265      0.09203380      0.1312613      0.5950513
## 413      1.0186074      0.09873950      0.1449580      0.5441176
## 414      0.9915158      0.09417421      0.1450792      0.4966063
## 416      1.0069686      0.10220674      0.1445993      0.5325203
## 417      0.8324468      0.10771277      0.1529255      0.5984043
## 418      1.0077565      0.11017746      0.1307439      0.5450112
## 419      1.0000000      0.12645218      0.1573770      0.6017813
## 420      0.9806950      0.11293436      0.1312741      0.5763536
## 421      1.0428571      0.11250000      0.1553571      0.6214286
## 424      1.0215827      0.11151079      0.1438849      0.5737410
## 425      0.9925926      0.10370370      0.1407407      0.5592593
```

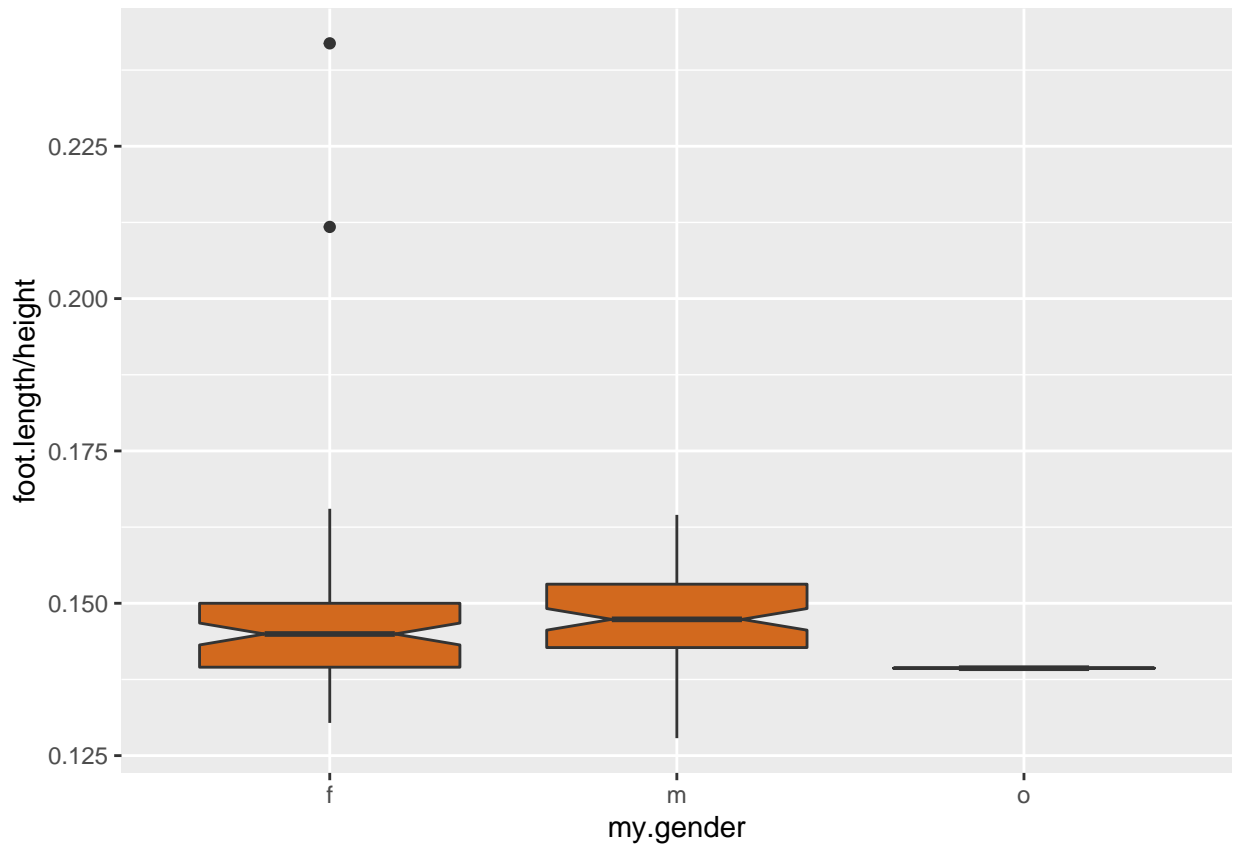
```
ggplot(filtered.measure, aes(x=my.gender, y= floor.hip/height)) +
  geom_boxplot(fill = "chocolate", notch = TRUE)
```



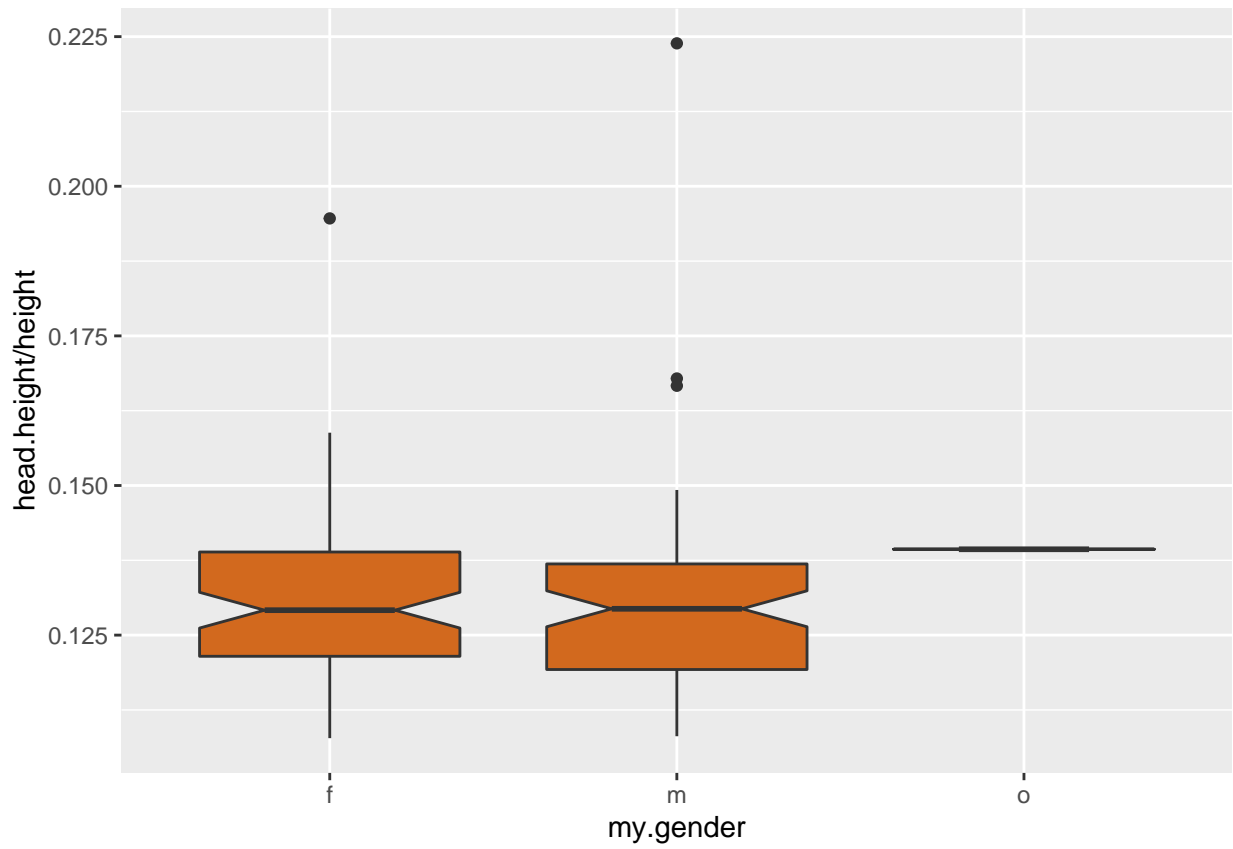
```
ggplot(filtered.measure, aes(x=my.gender, y= arm.span/height)) +  
  geom_boxplot(fill = "chocolate", notch = TRUE)
```



```
ggplot(filtered.measure, aes(x=my.gender, y= foot.length/height)) +  
  geom_boxplot(fill = "chocolate", notch = TRUE)
```



```
ggplot(filtered.measure, aes(x=my.gender, y= head.height/height)) +  
  geom_boxplot(fill = "chocolate", notch = TRUE)
```



ENDNOTES

REFERENCES

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- Wilks. 1988. *The New S Language*. Wadsworth

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