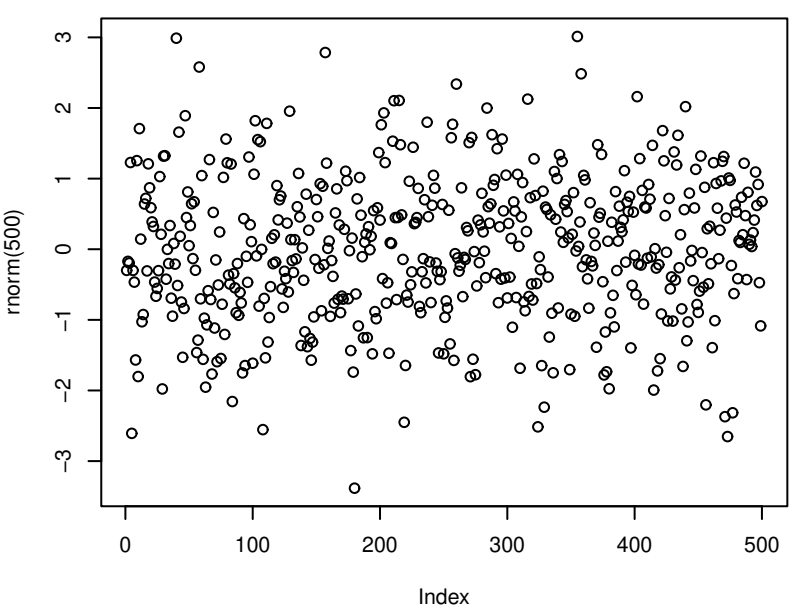
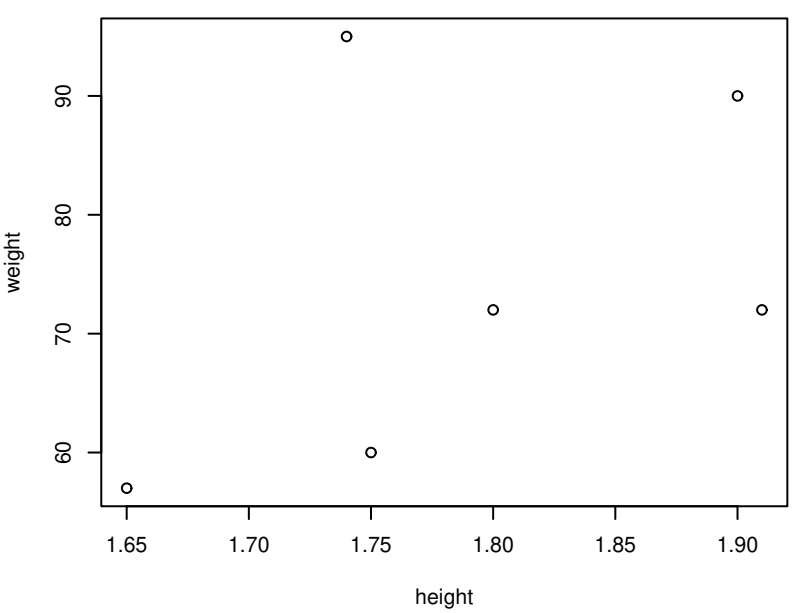
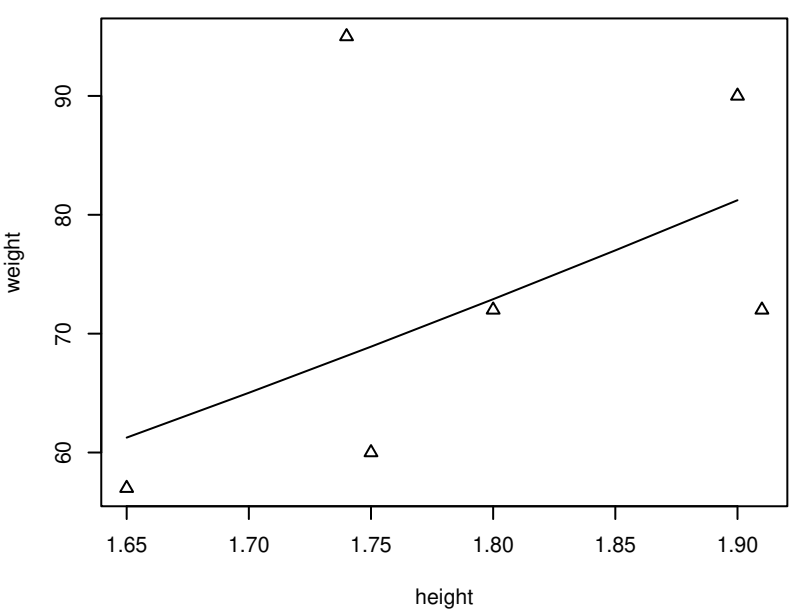
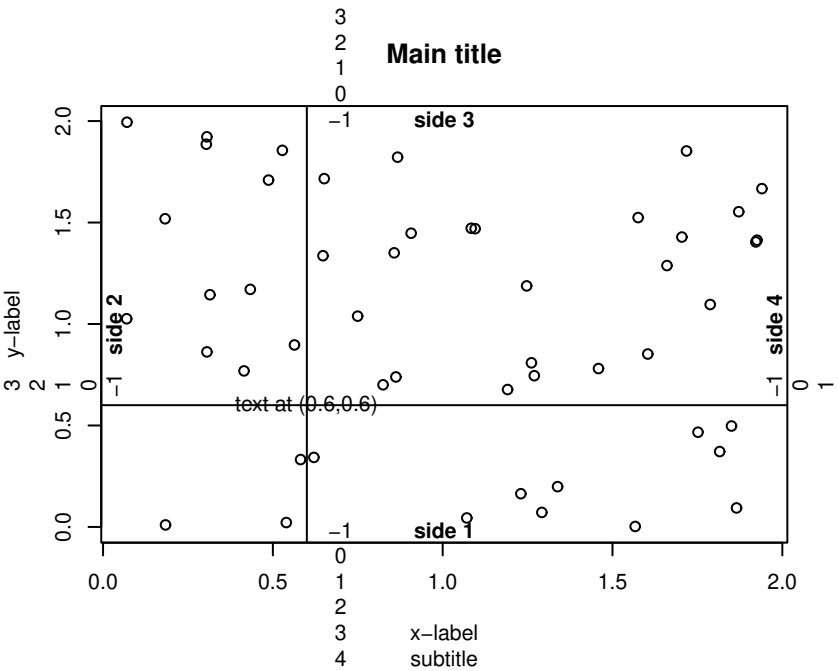
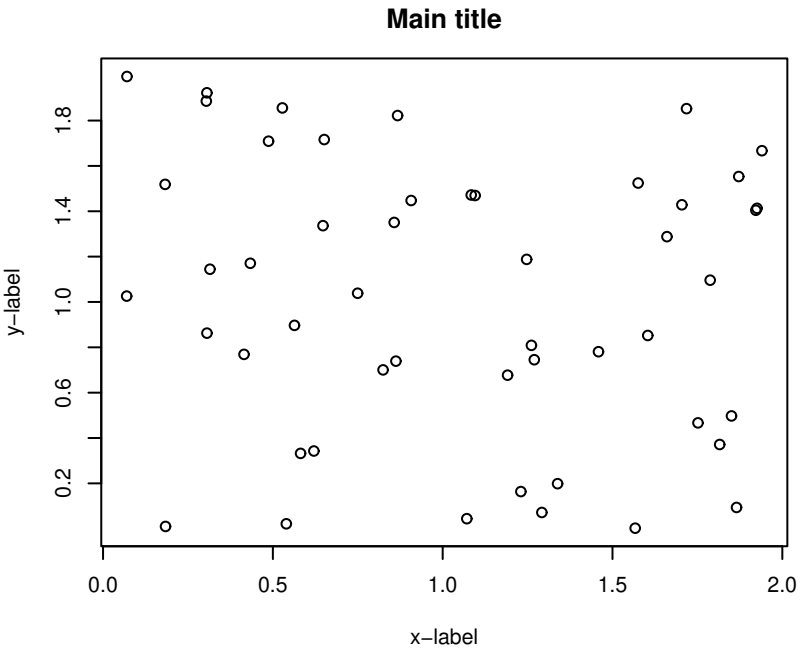
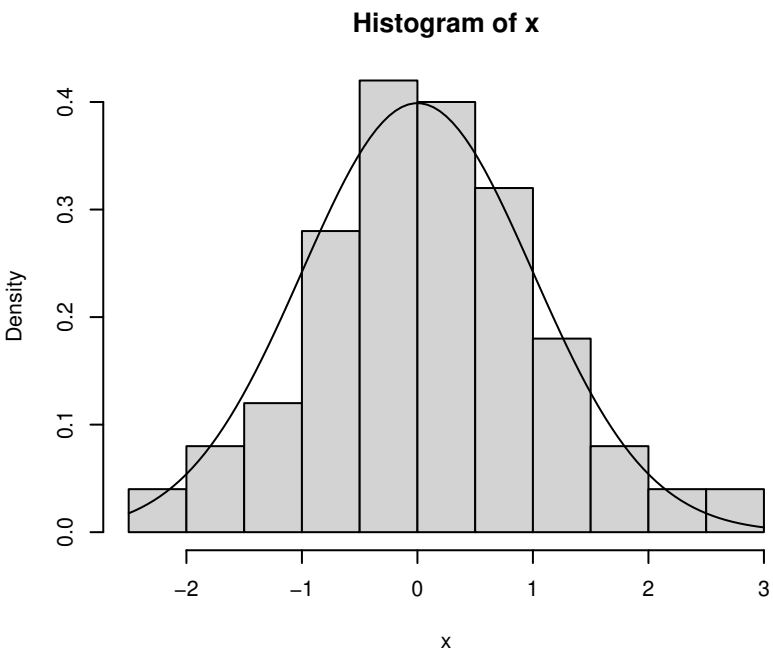

rnorm(500)
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Index

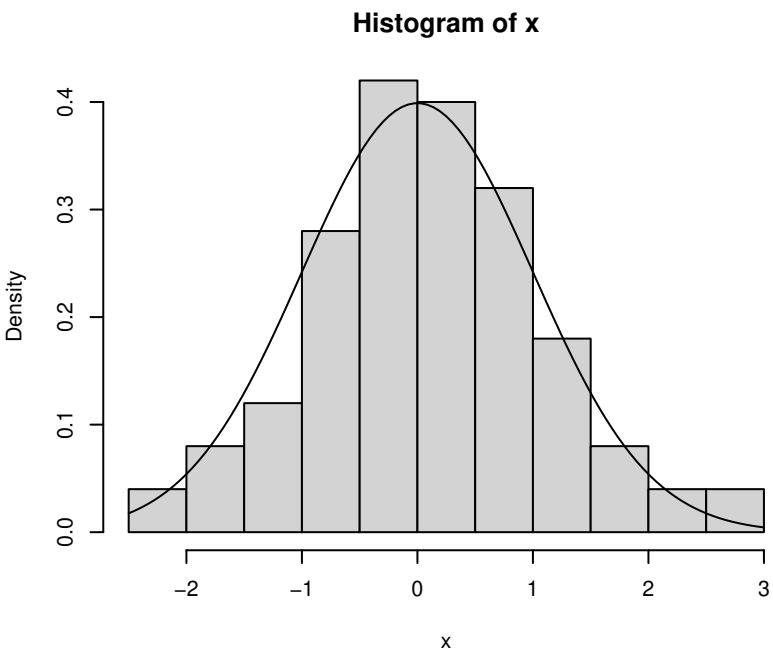

weight
60
70
80
90
1.65
1.70
1.75
1.80
1.85
1.90
height

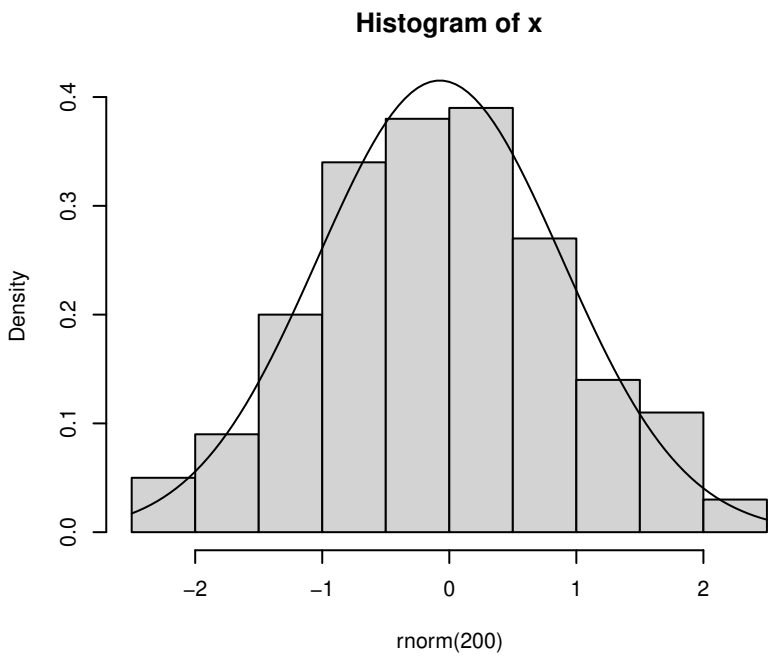

weight
60
70
80
90
1.65
1.70
1.75
1.80
1.85
1.90
height

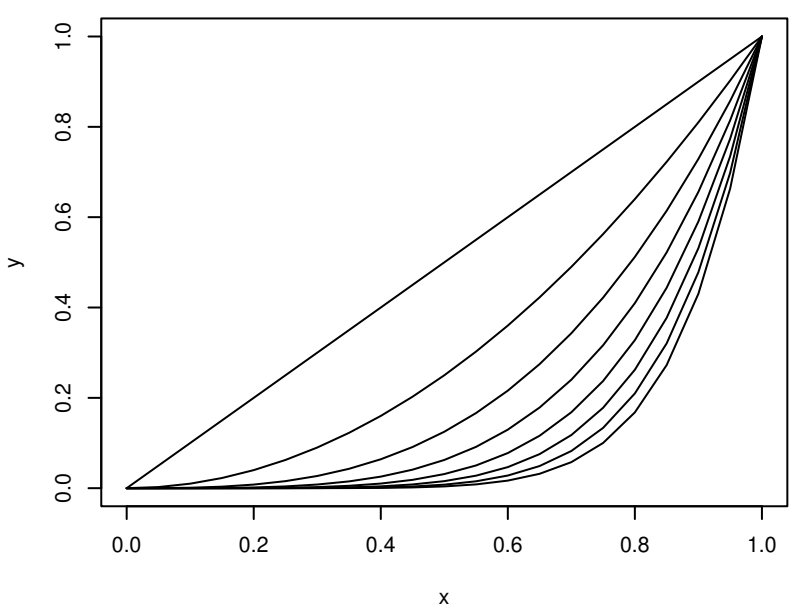

Main title
side 3
side 2
side 4
side 1
text at (0.6,0.6)
y−label
x−label
subtitle

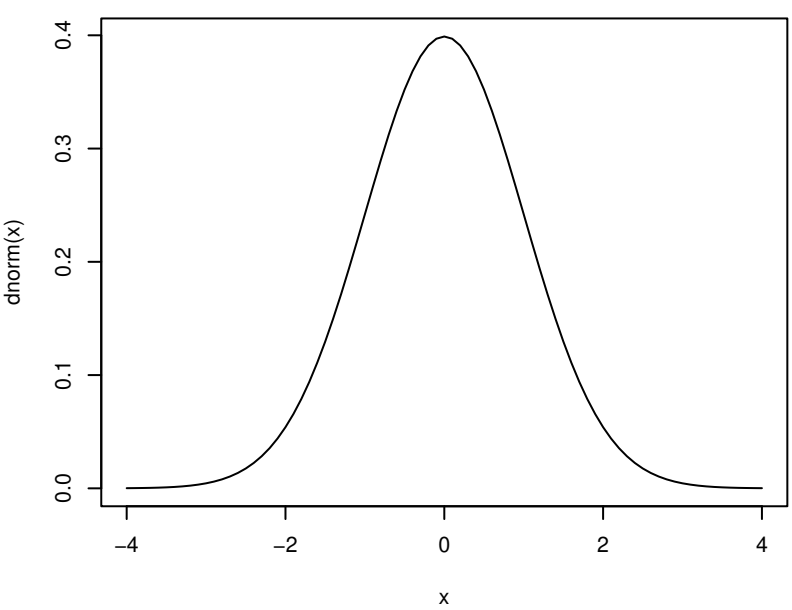

Main title
y−label
x−label
0.2
0.6
1.0
1.4
1.8
0.0
0.5
1.0
1.5
2.0

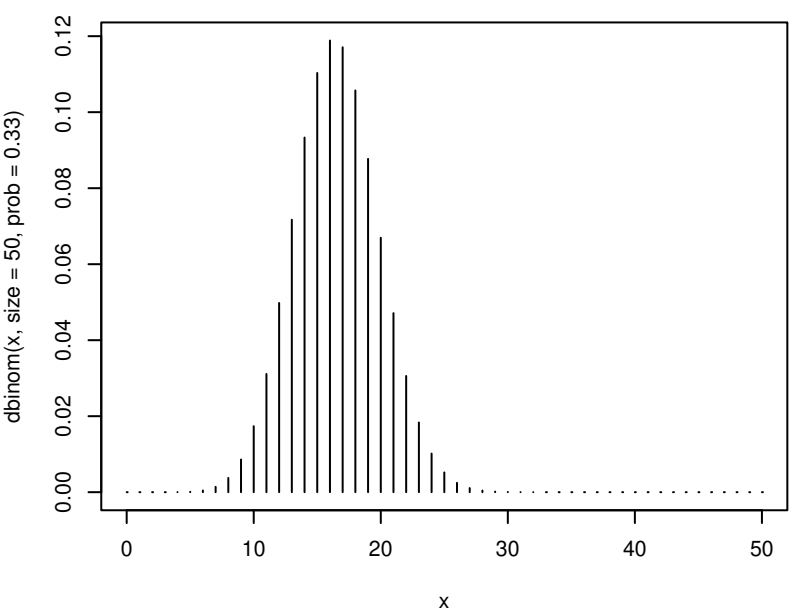

Histogram of x
Density
0.0
0.1
0.2
0.3
0.4
−2
−1
0
1
2
3
x

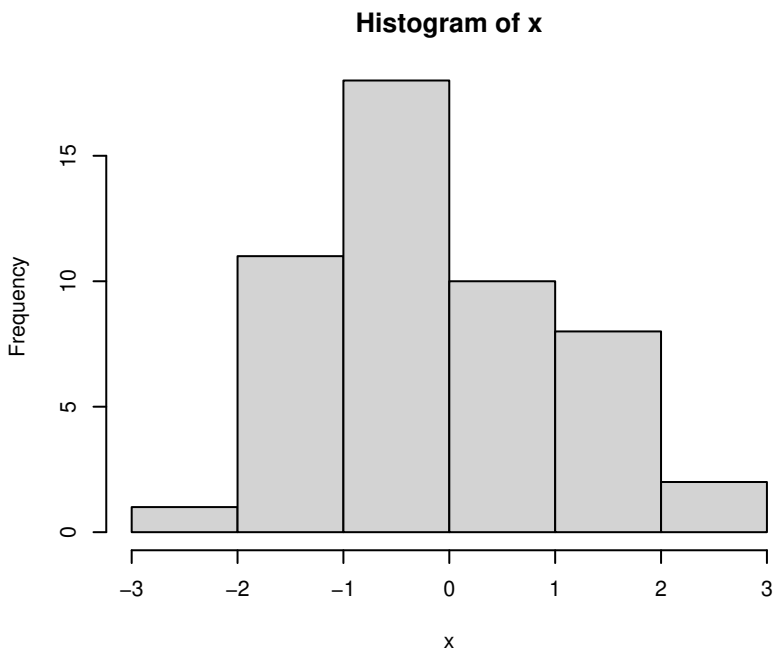

Histogram of x
Density
0.0
0.1
0.2
0.3
0.4
−2
−1
0
1
2
3
x

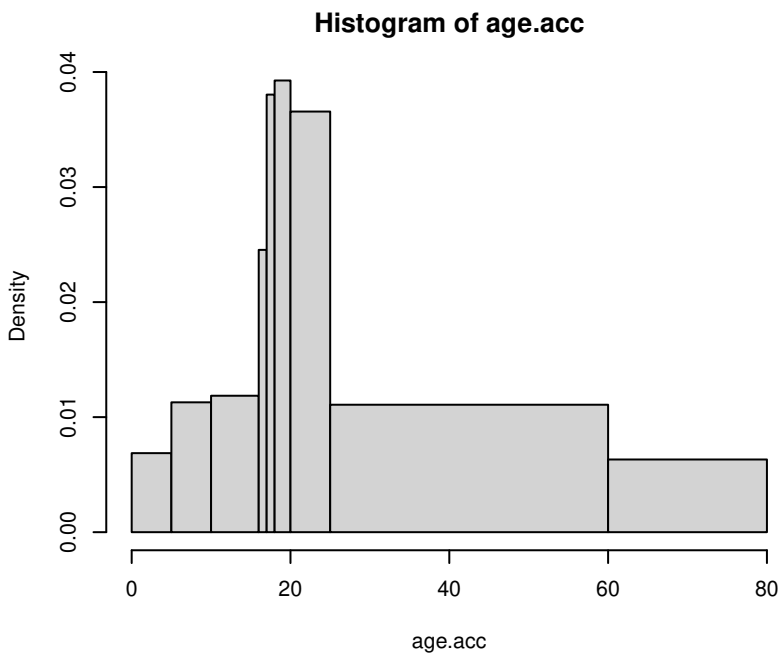

Histogram of x
Density
0.0
0.1
0.2
0.3
0.4
−2
−1
0
1
2
rnorm(200)

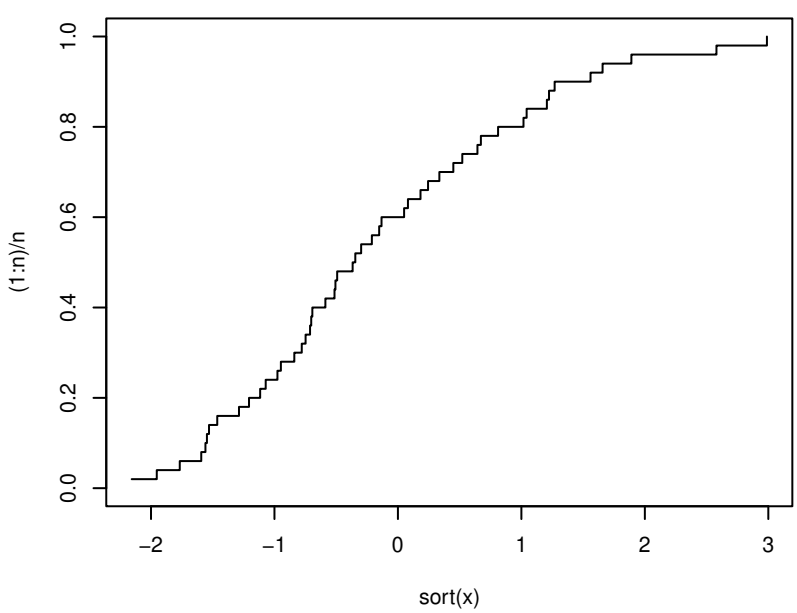

0.0
0.2
0.4
0.6
0.8
1.0
y
0.0
0.2
0.4
0.6
0.8
1.0
x

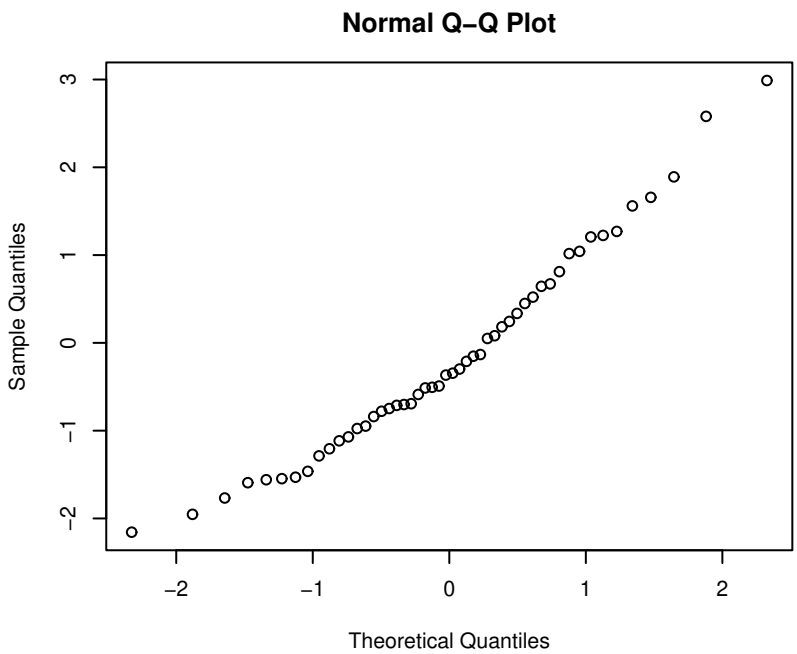

dnorm(x)
0.0
0.1
0.2
0.3
0.4
−4
−2
0
2
4
x

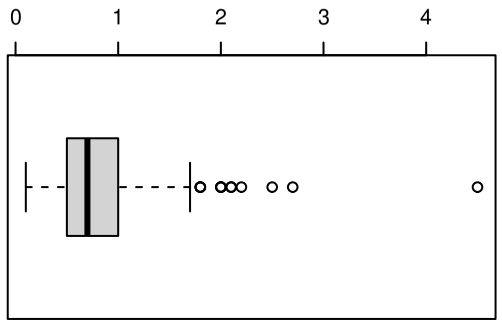

dbinom(x, size = 50, prob = 0.33)
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0
10
20
30
40
50
x

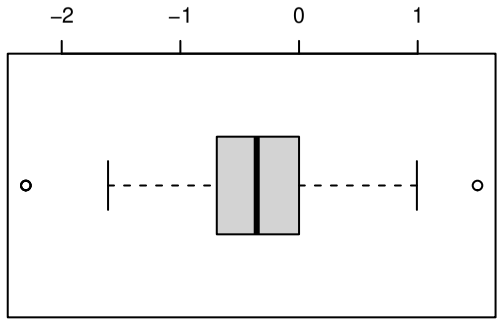

Histogram of x
Frequency
0
5
10
15
−3
−2
−1
0
1
2
3
x

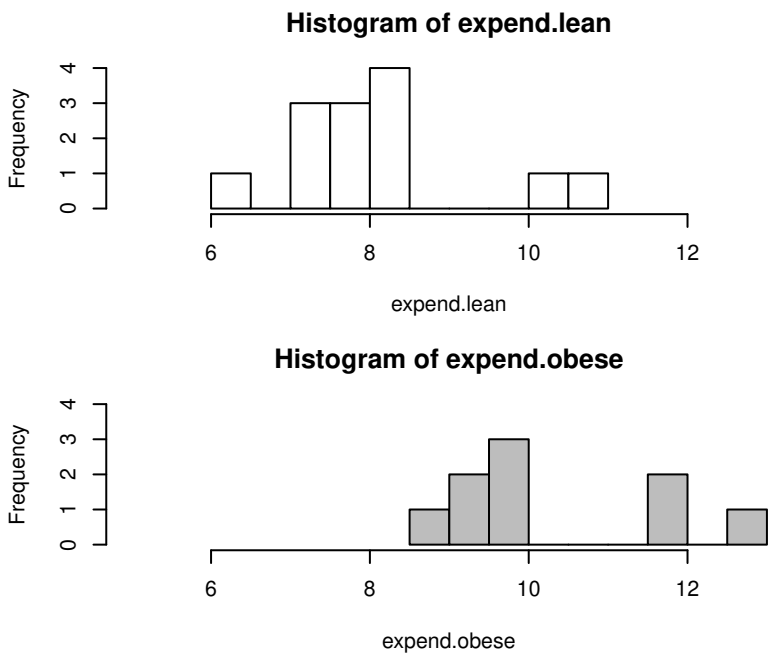

Histogram of age.acc
Density
0.00
0.01
0.02
0.03
0.04
0
20
40
60
80
age.acc

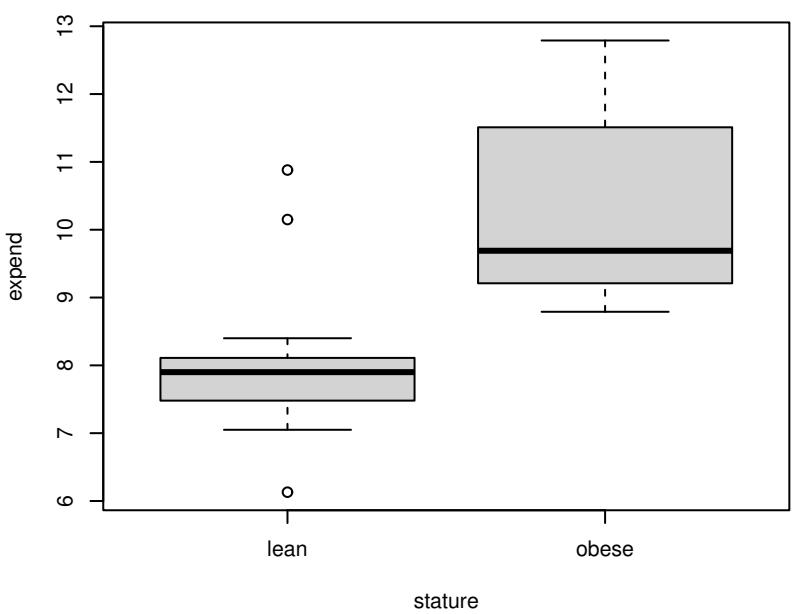

(1:n)/n
0.0
0.2
0.4
0.6
0.8
1.0
−2
−1
0
1
2
3
sort(x)

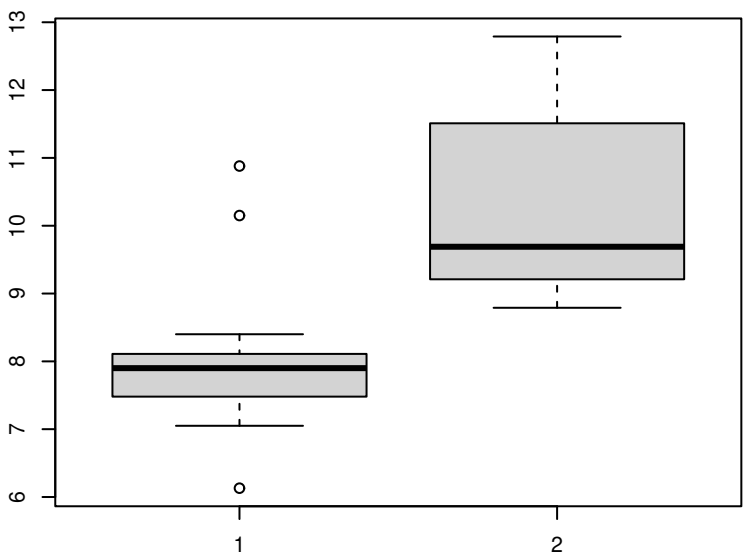

Normal Q–Q Plot
Sample Quantiles
Theoretical Quantiles
−2
−1
0
1
2
3

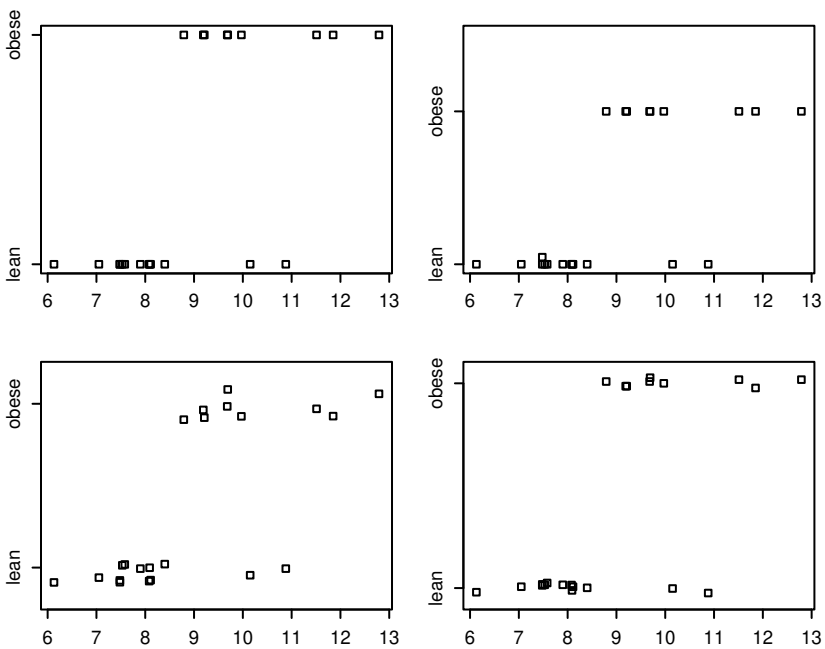

0
1
2
3
4

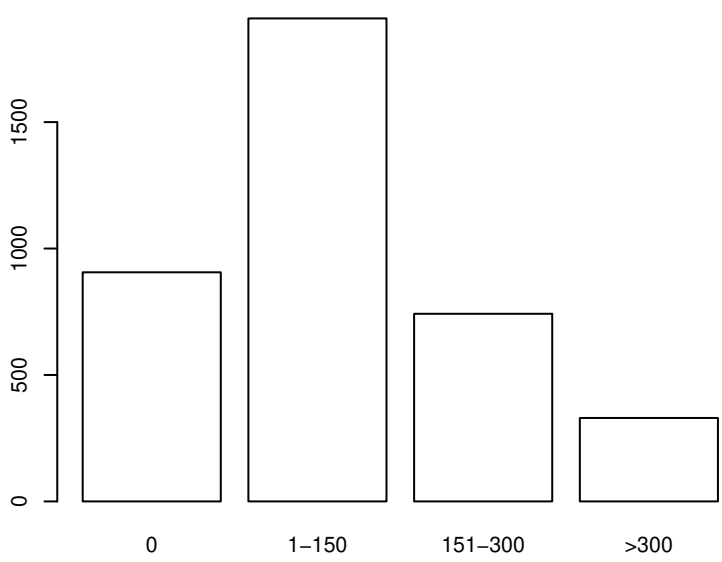

−2
−1
0
1

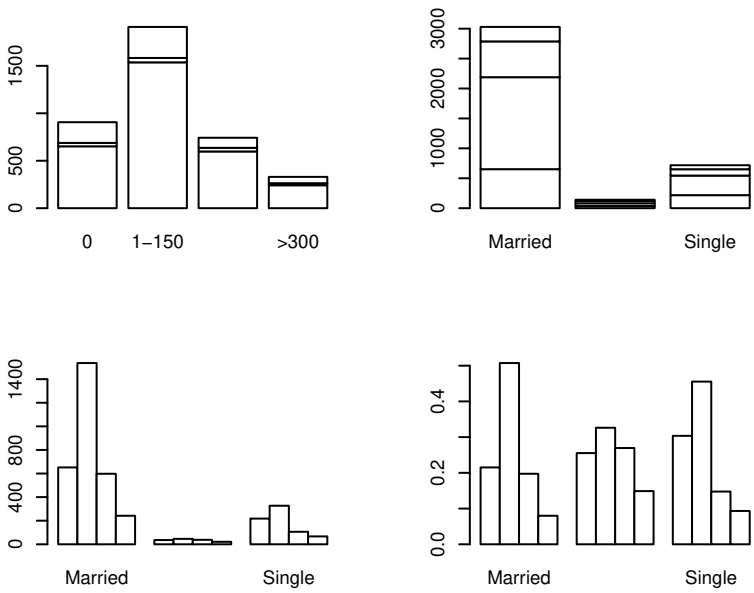

Histogram of expend.lean
Frequency
0
1
2
3
4
6
8
10
12
expend.lean
Histogram of expend.obese
Frequency
0
1
2
3
4
6
8
10
12
expend.obese

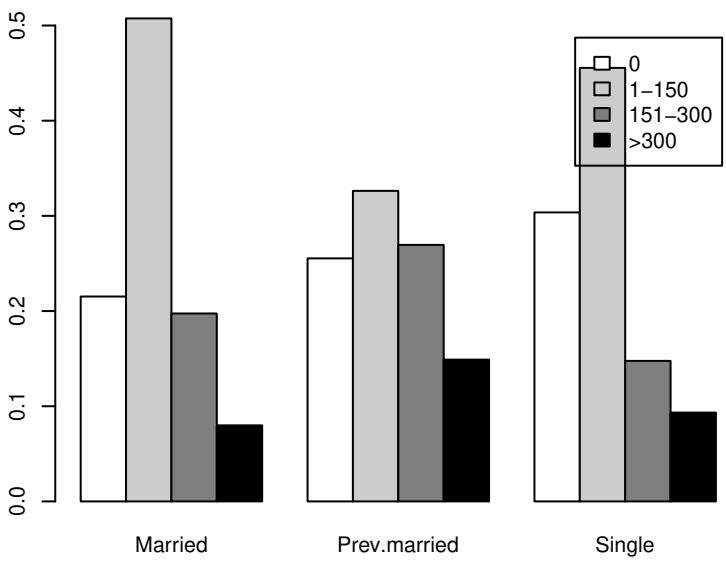

expend
6
7
8
9
10
11
12
13
lean
obese
stature

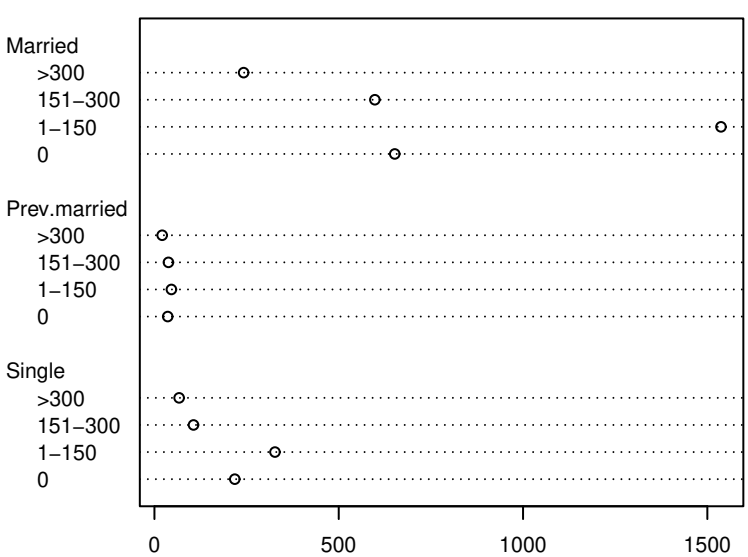

13
12
11
10
9
8
7
6
1
2

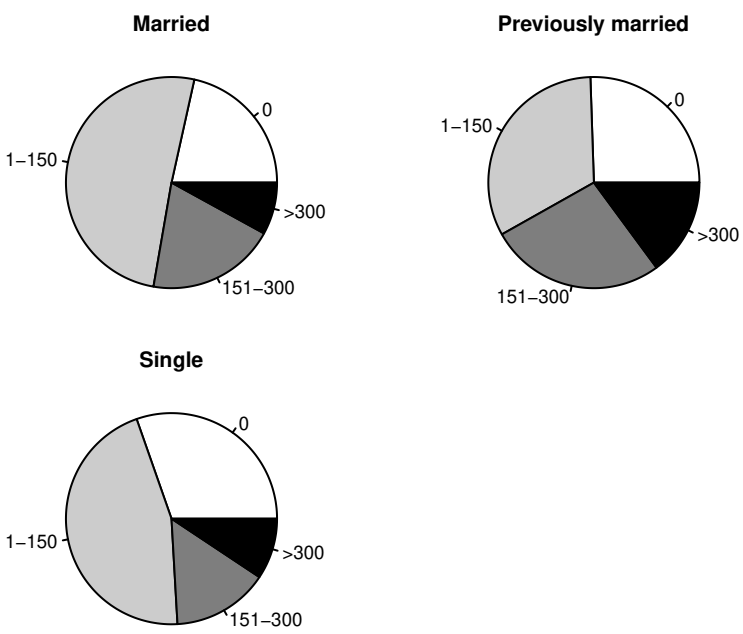

obese
lean
6
7
8
9
10
11
12
13

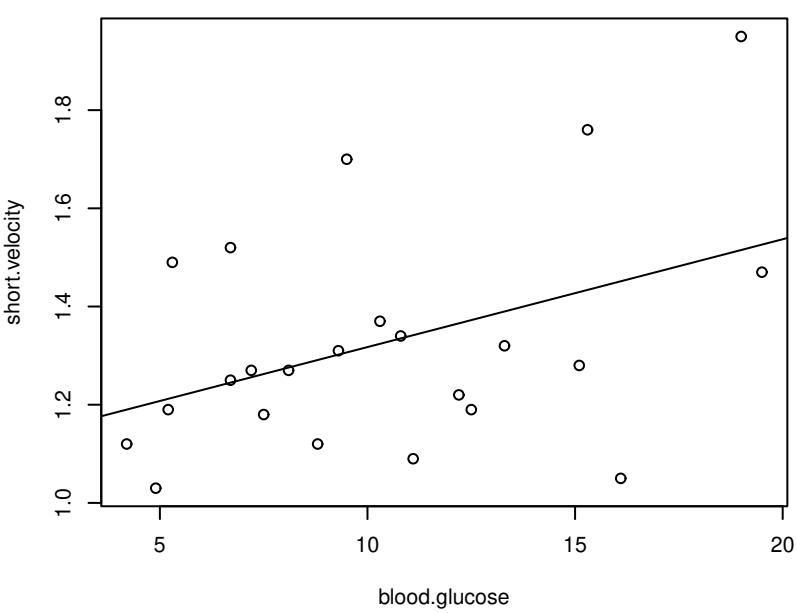

0
500
1000
1500
0
1–150
151–300
>300

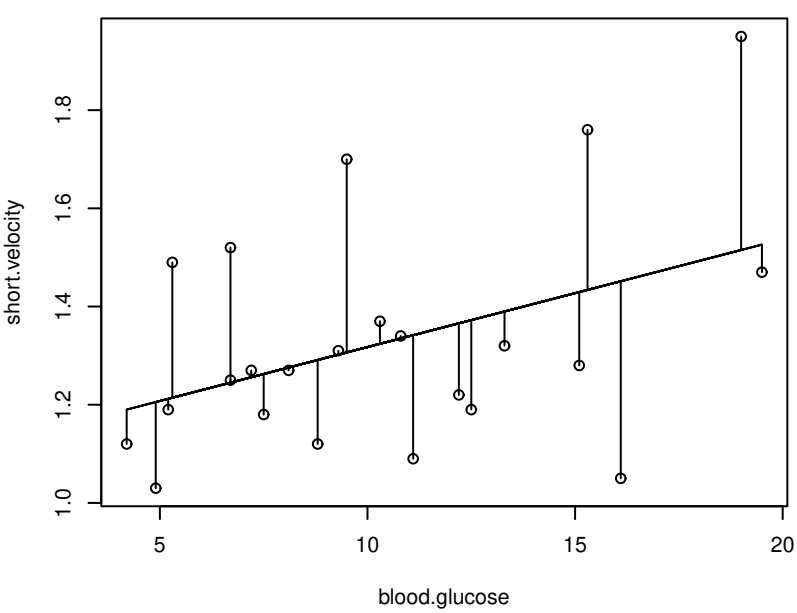

0
500
1500
0
1−150
>300
0
1000
2000
3000
Married
Single
0
400
800
1400
Married
Single
0.0
0.2
0.4
Married
Single

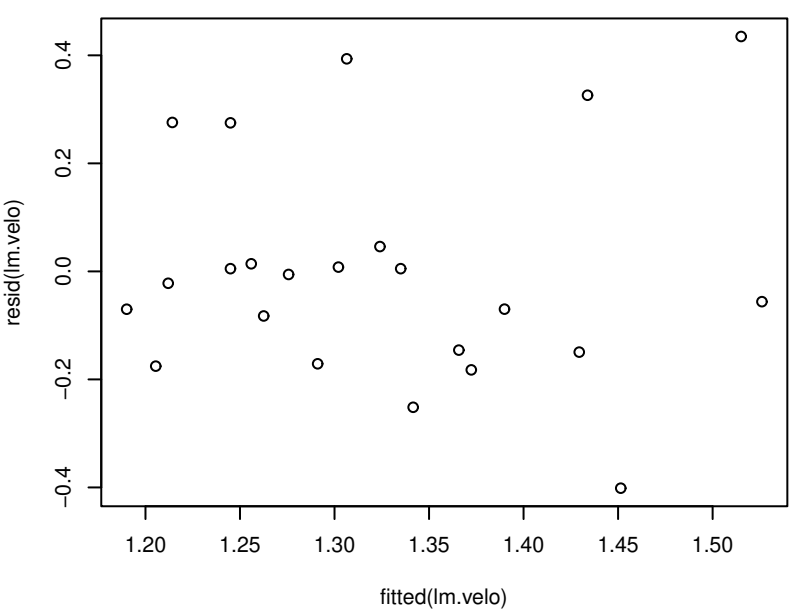

0.0
0.1
0.2
0.3
0.4
0.5
0
1−150
151−300
>300
Married
Prev.married
Single

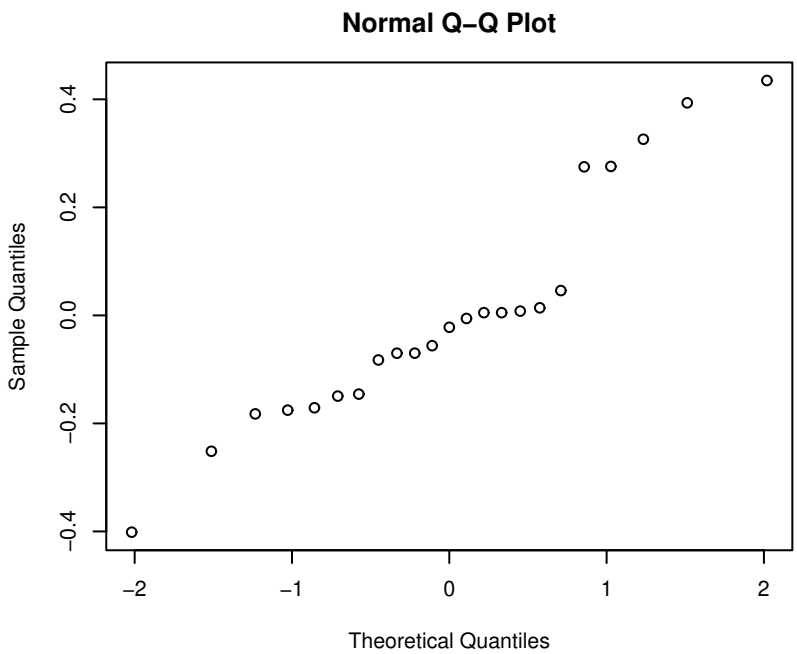

Married
>300
151–300
1–150
0
Prev.married
>300
151–300
1–150
0
Single
>300
151–300
1–150
0
0
500
1000
1500

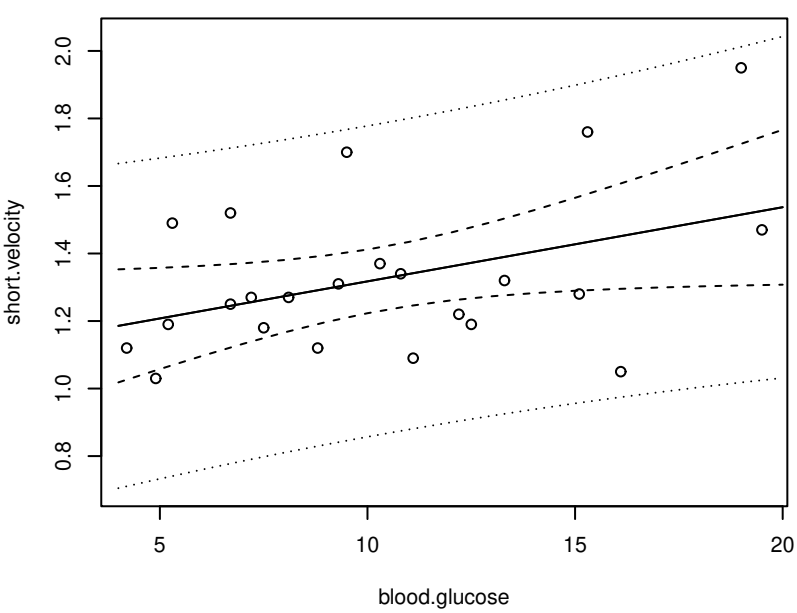

Married
0
1–150
>300
151–300
Previously married
0
1–150
>300
151–300
Single
0
1–150
>300
151–300

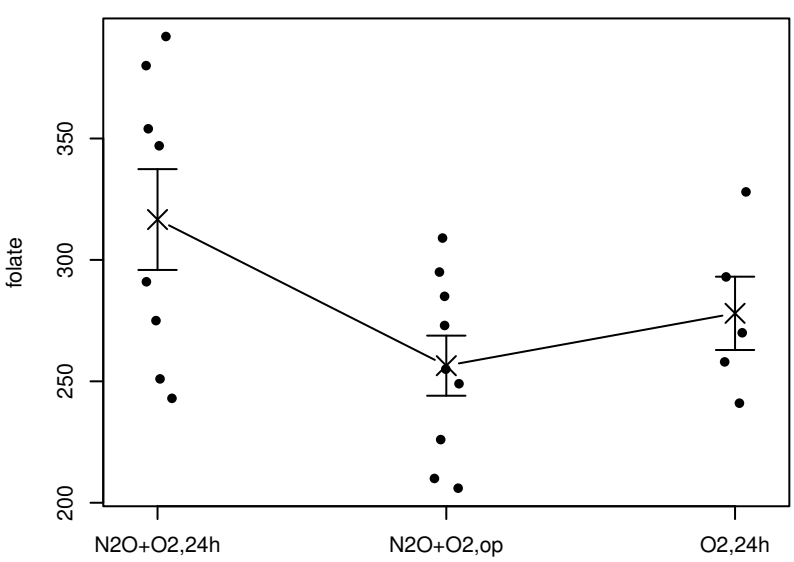

short.velocity
1.0
1.2
1.4
1.6
1.8
5
10
15
20
blood.glucose

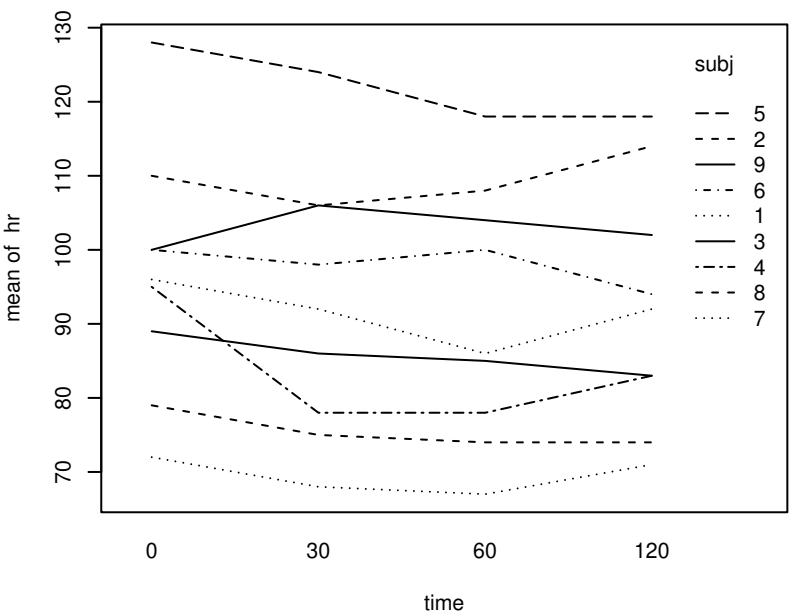

short.velocity
1.0
1.2
1.4
1.6
1.8
5
10
15
20
blood.glucose

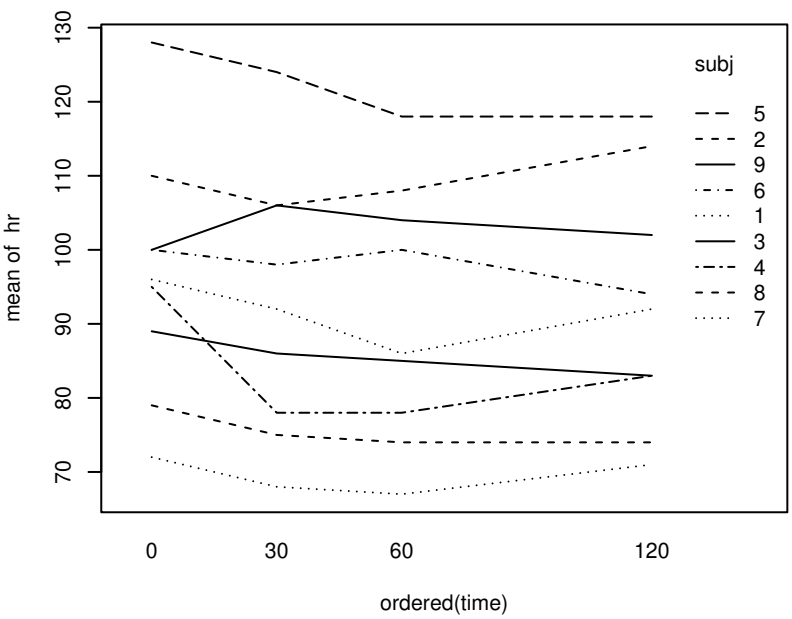

resid(lm.velo)
0.4
0.2
0.0
−0.2
−0.4
1.20
1.25
1.30
1.35
1.40
1.45
1.50
fitted(lm.velo)

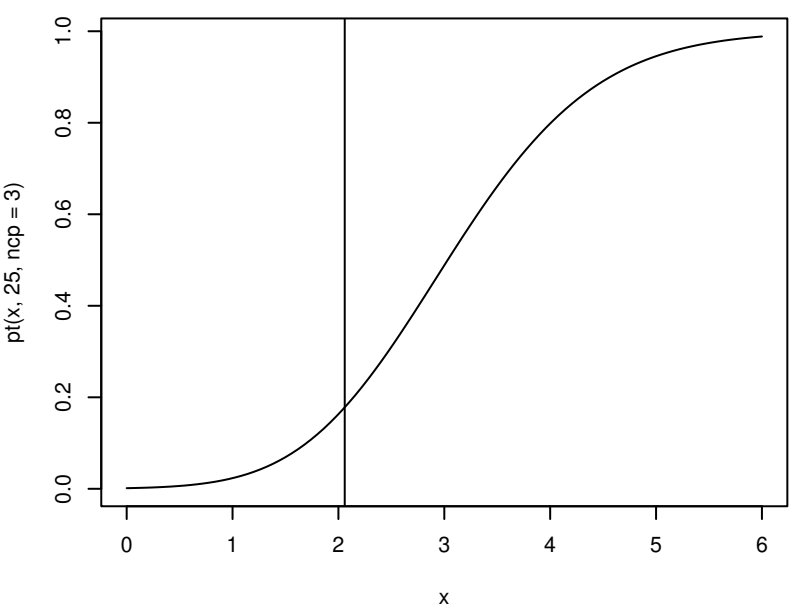

Normal Q–Q Plot
Sample Quantiles
Theoretical Quantiles
−0.4
−0.2
0.0
0.2
0.4
−2
−1
0
1
2

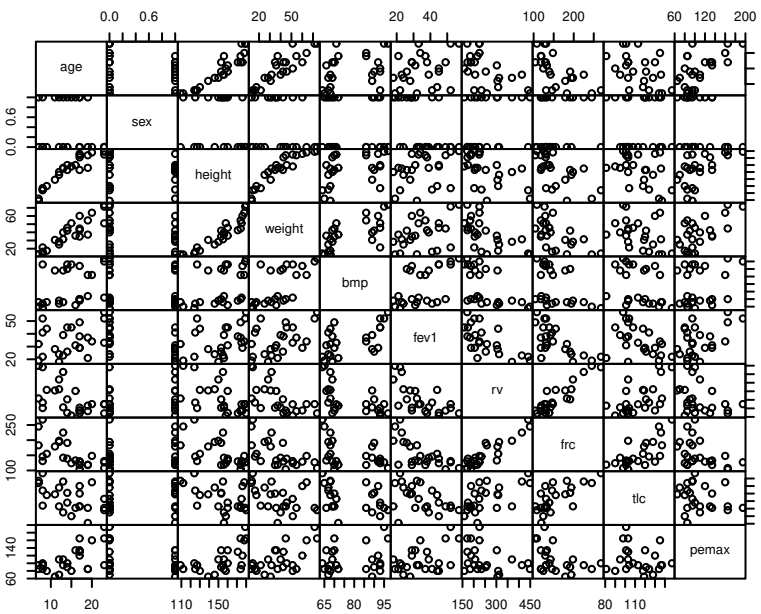

short.velocity
0.8
1.0
1.2
1.4
1.6
1.8
2.0
5
10
15
20
blood.glucose

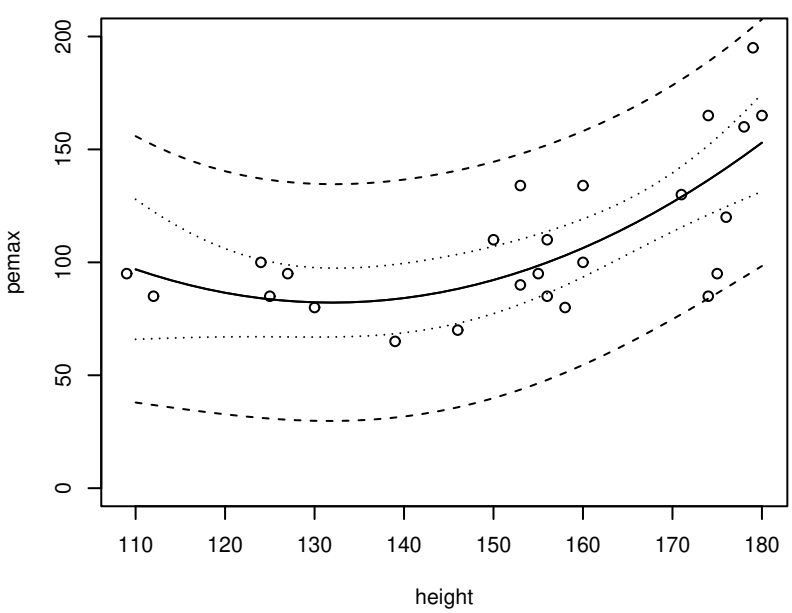

folate
200
250
300
350
N2O+O2,24h
N2O+O2,op
O2,24h

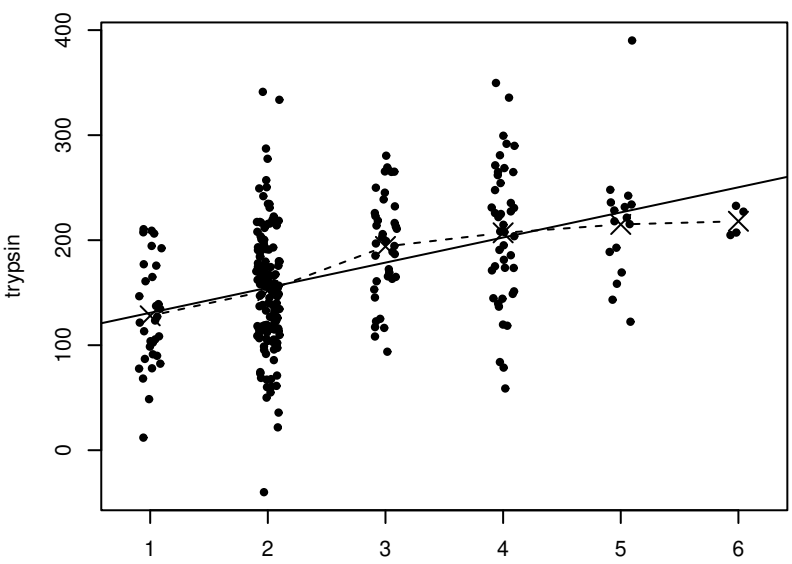

mean of hr
130
120
110
100
90
80
70
0
30
60
120
time
subj
5
2
9
6
1
3
4
8
7

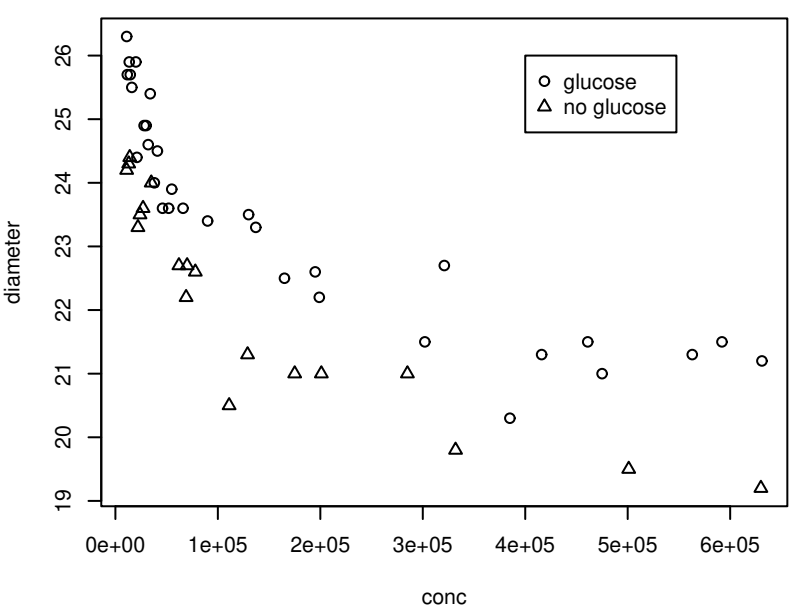

mean of hr
130
120
110
100
90
80
70
0
30
60
120
ordered(time)
subj
5
2
9
6
1
3
4
8
7

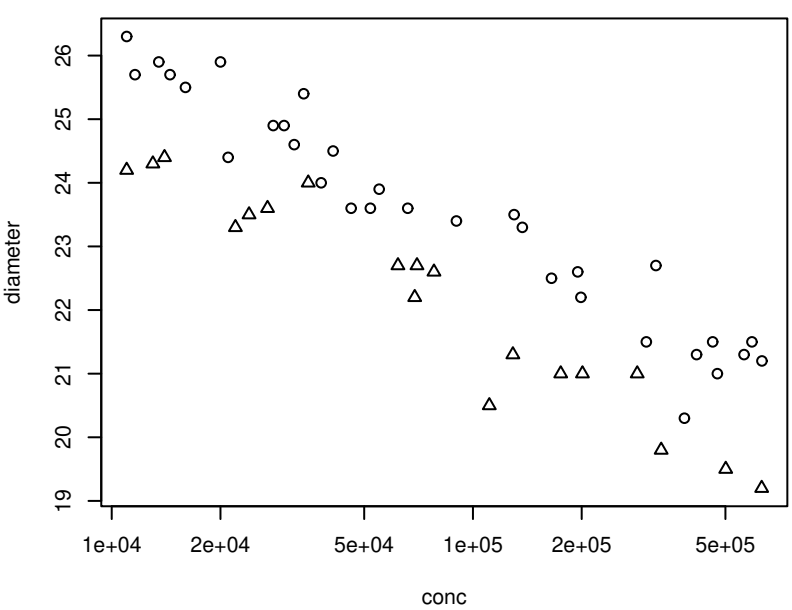

pt(x, 25, ncp = 3)
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
x

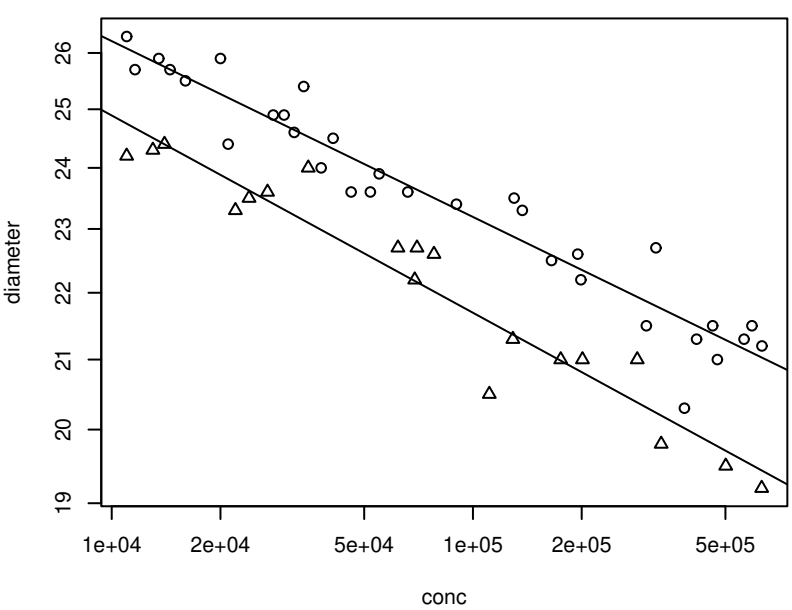

age
sex
height
weight
bmp
fev1
rv
frc
tlc
pemax

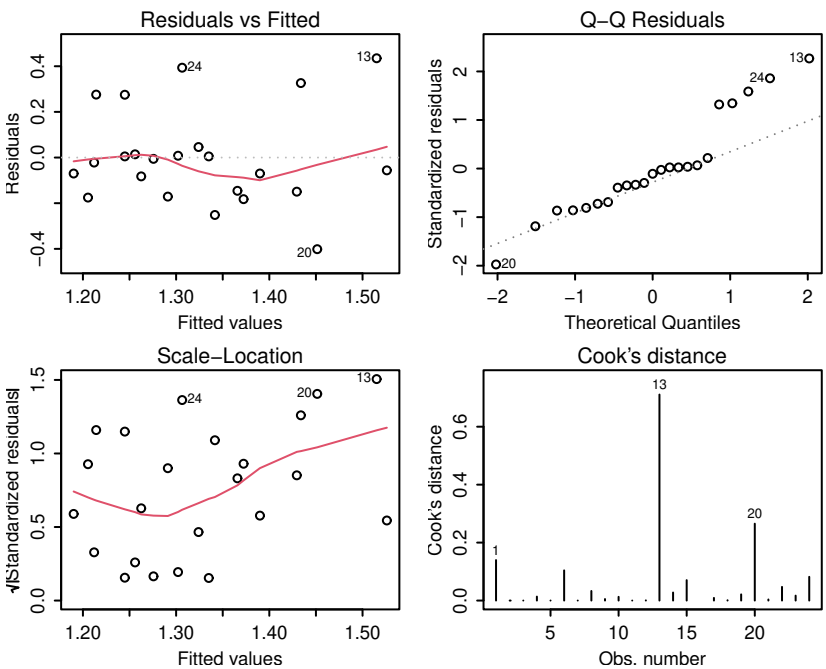

pemax
0
50
100
150
200
110
120
130
140
150
160
170
180
height

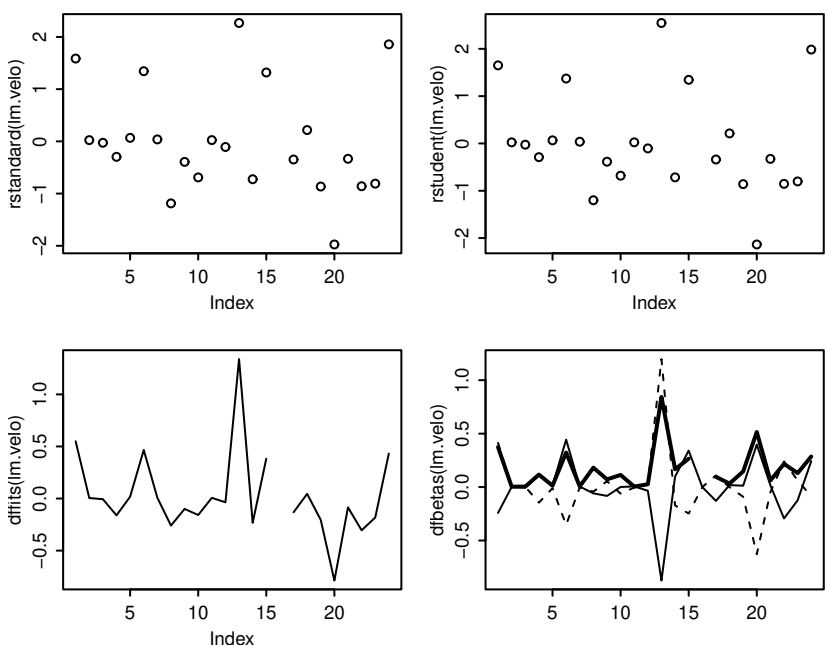

trypsin
0
100
200
300
400
1
2
3
4
5
6

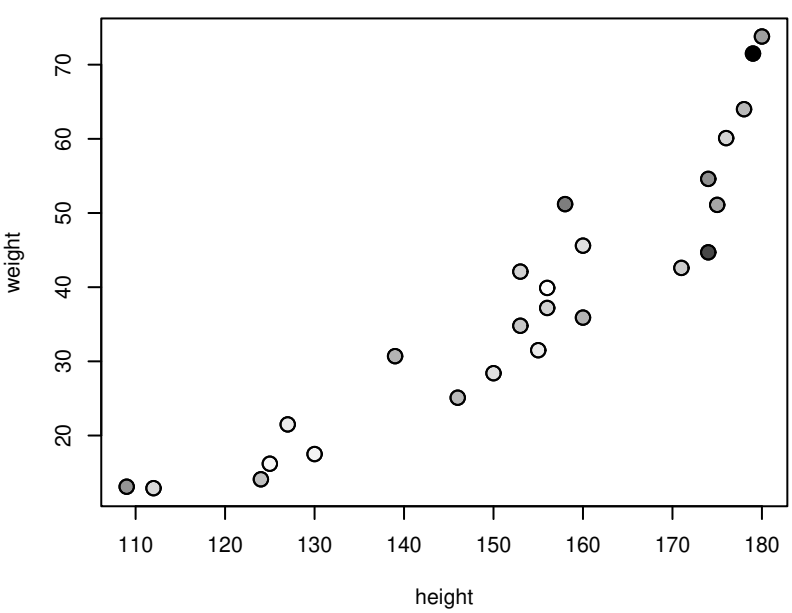

glucose
no glucose
diameter
conc
19
20
21
22
23
24
25
26
0e+00
1e+05
2e+05
3e+05
4e+05
5e+05
6e+05


diameter
19
20
21
22
23
24
25
26
1e+04
2e+04
5e+04
1e+05
2e+05
5e+05
conc


diameter
19
20
21
22
23
24
25
26
1e+04
2e+04
5e+04
1e+05
2e+05
5e+05
conc


Residuals vs Fitted
Residuals
Fitted values
Q–Q Residuals
Standardized residuals
Theoretical Quantiles
Scale–Location
√|Standardized residuals|
Fitted values
Cook's distance
Cook's distance
Obs. number


rstandard(lm.velo)
Index
rstudent(lm.velo)
Index
dffits(lm.velo)
Index
dfbetas(lm.velo)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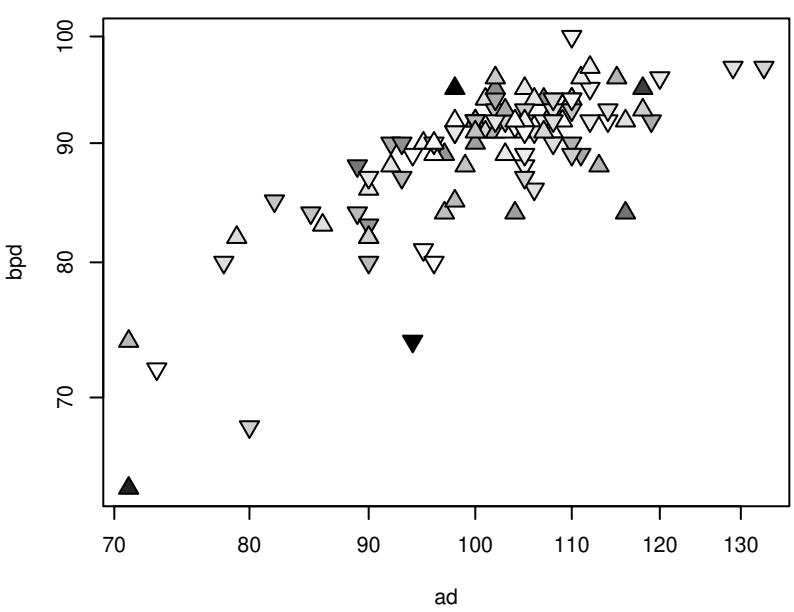
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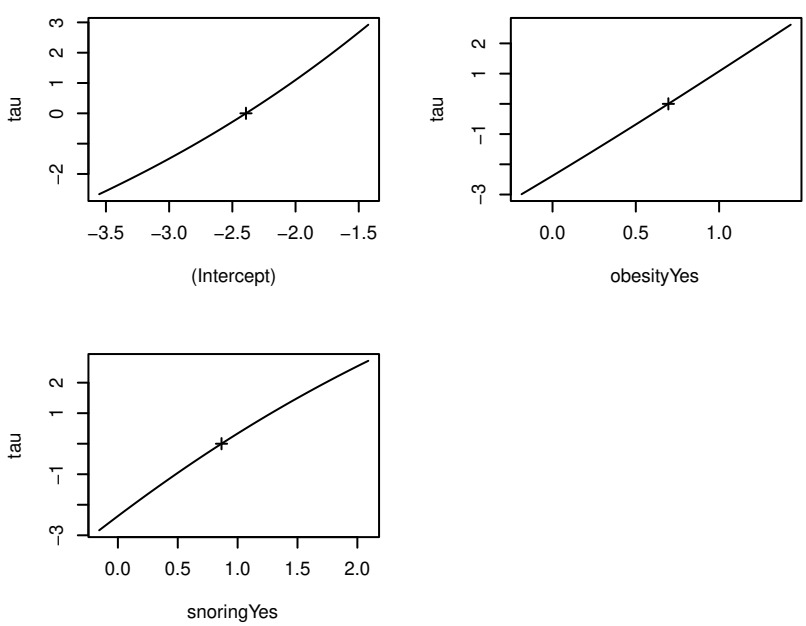
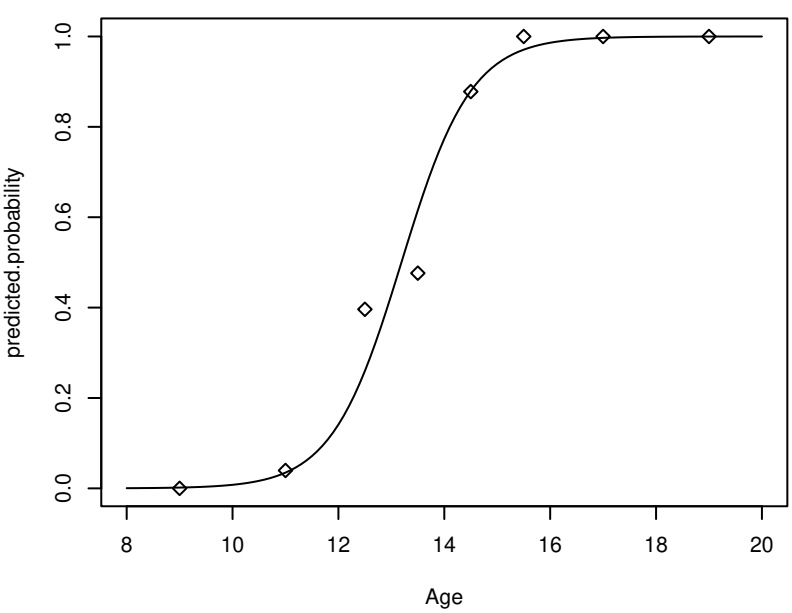

tau
−2
0
1
2
3
−3.5
−3.0
−2.5
−2.0
−1.5
(Intercept)
tau
−3
−1
1
2
0.0
0.5
1.0
obesityYes
tau
−3
−1
1
2
0.0
0.5
1.0
1.5
2.0
snoringYes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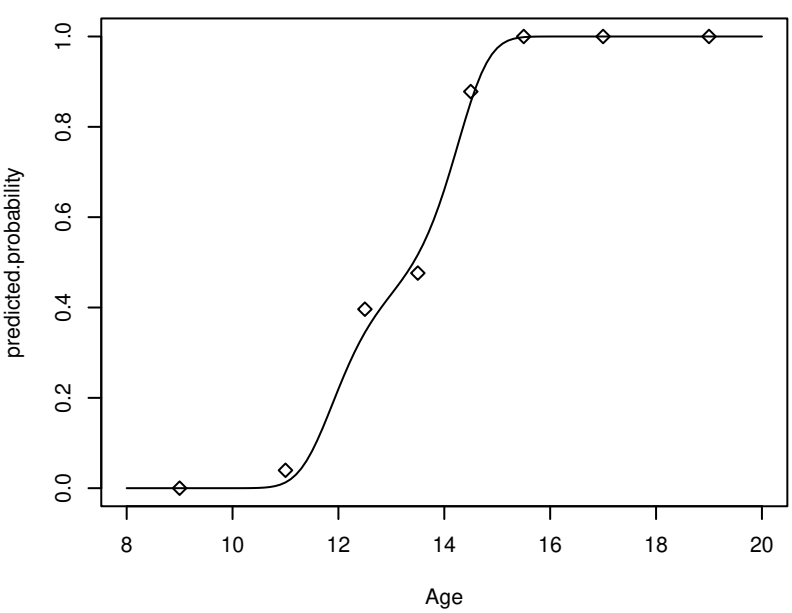
0.4
0.6
0.8
1.0
8
10
12
14
16
18
20
Age


predicted.probability
0.0
0.2
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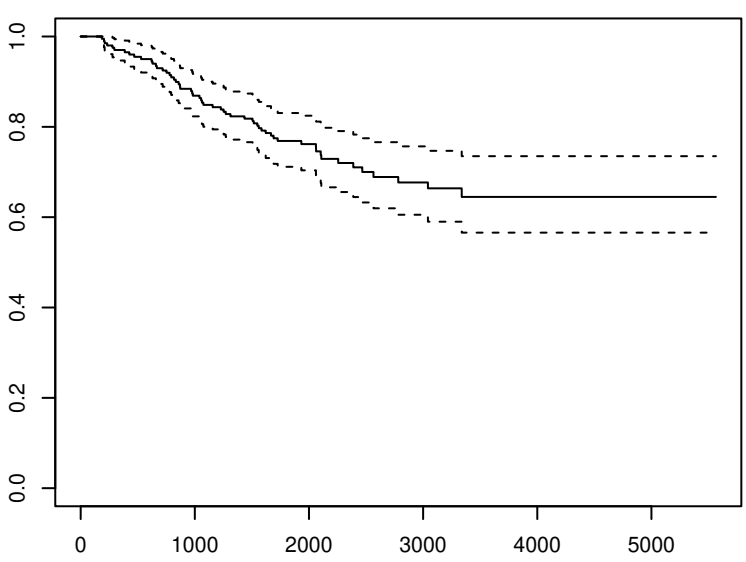
18
20
Age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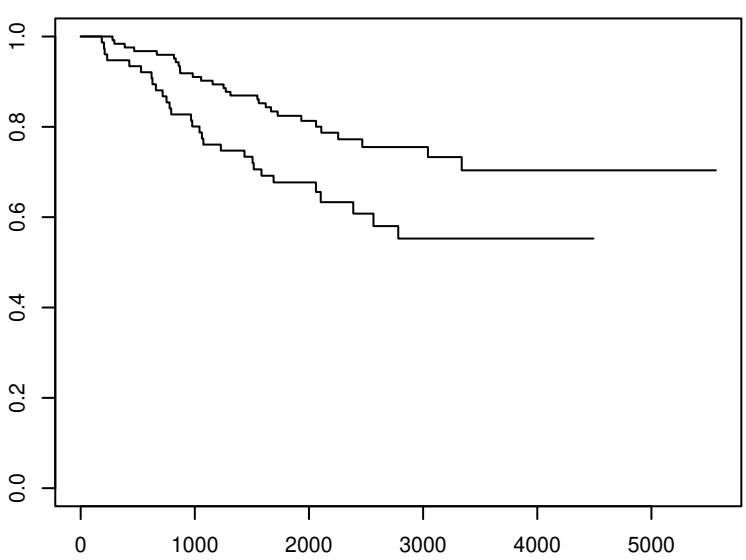
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
5000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0.6
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0
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2000
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4000
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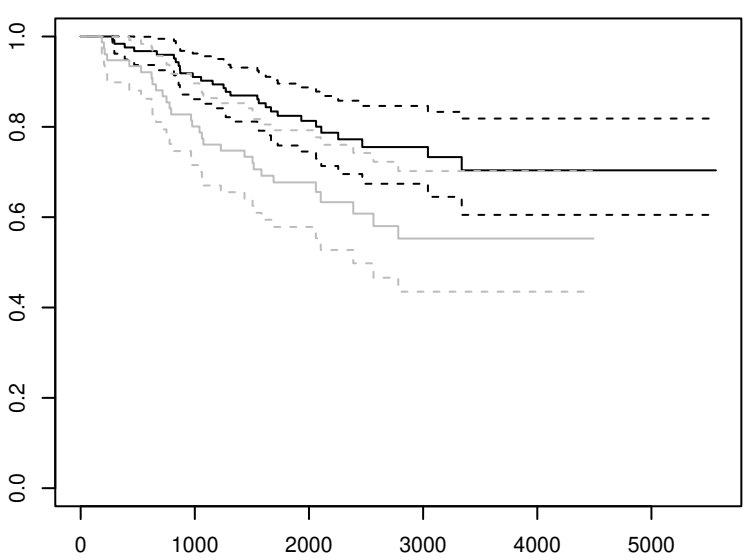
1.0
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0.6
0.4
0.2
0.0
0
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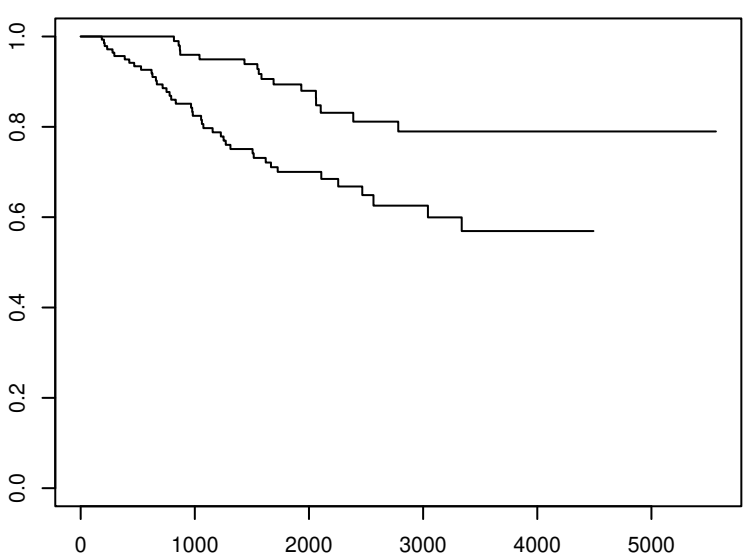
2000
3000
4000
5000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0.6
0.4
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0.0
0
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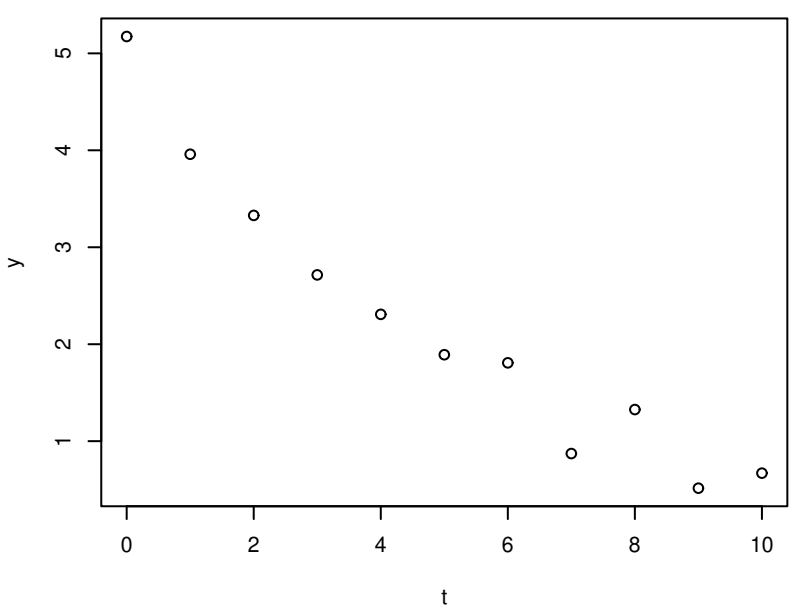
y
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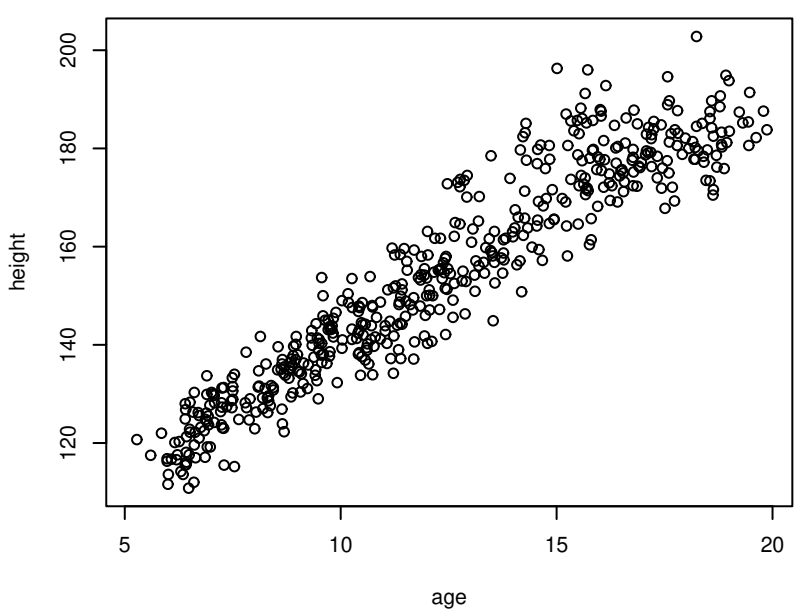
1
2
3
4
5
0
2
4
6
8
10


height
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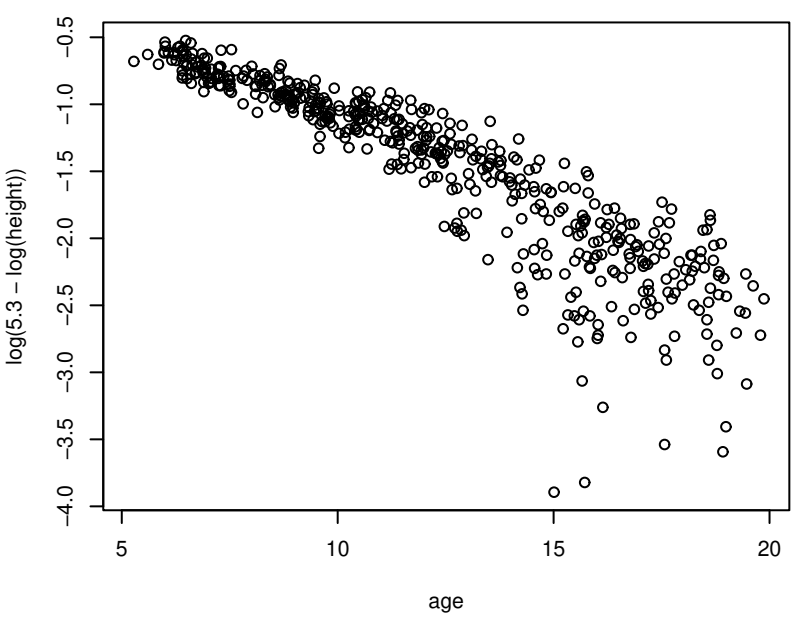
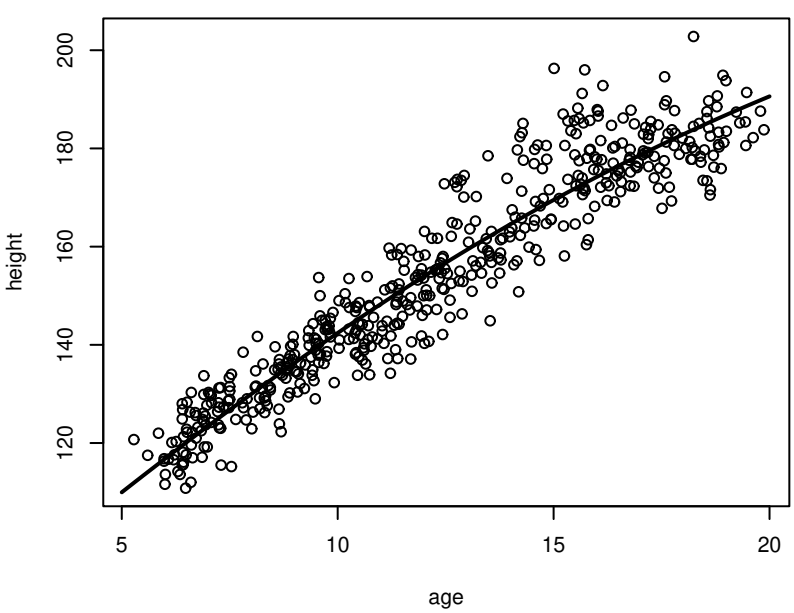
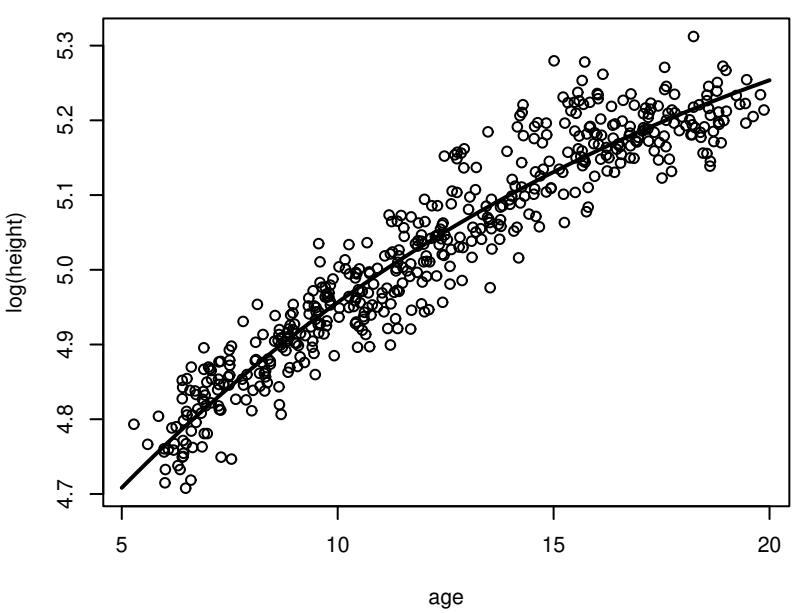
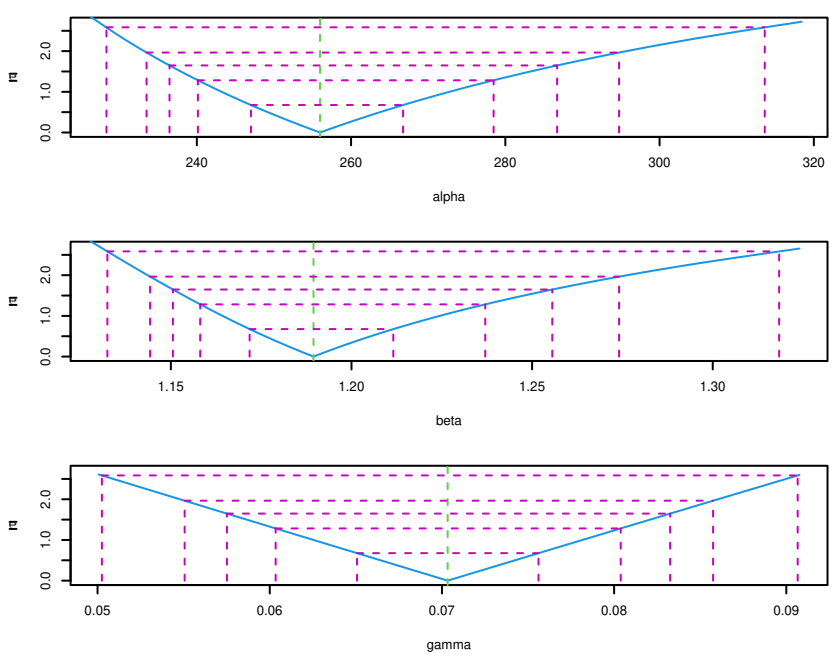
140
160
180
200
5
10
15
20
age


log(5.3 − log(height))
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
−3.5
−4.0
5
10
15
20
age


height
120
140
160
180
200
5
10
15
20
age


log(height)
4.7
4.8
4.9
5.0
5.1
5.2
5.3
5
10
15
20
age


RSS
0.0
1.0
2.0
240
260
280
300
320
alpha
RSS
0.0
1.0
2.0
1.15
1.20
1.25
1.30
beta
RSS
0.0
1.0
2.0
0.05
0.06
0.07
0.08
0.09
gamma