

Regression

2/14/2023

- My dataset has 15 variables and 32561 observations
- read in dataframe.
- Take a peek at the head of the data.
- Create a dataframe of only Variable “sex” to closer look of the gender distribution of the data.
- Looks like we have more data from male group almost twice as much than female.
- summarize the observations of each variable sex, income, marital status , and native country.

```
df <- read.csv("adult.csv")
```

```
str(df)
```

```
## 'data.frame':    32561 obs. of  15 variables:
## $ age           : int  90 82 66 54 41 34 38 74 68 41 ...
## $ workclass     : chr   "?" "Private" "?" "Private" ...
## $ fnlwgt        : int  77053 132870 186061 140359 264663 216864 150601 88638 422013 70037
## ...
## $ education     : chr   "HS-grad" "HS-grad" "Some-college" "7th-8th" ...
## $ education.num : int    9 9 10 4 10 9 6 16 9 10 ...
## $ marital.status: chr   "Widowed" "Widowed" "Widowed" "Divorced" ...
## $ occupation    : chr   "?" "Exec-managerial" "?" "Machine-op-inspct" ...
## $ relationship  : chr   "Not-in-family" "Not-in-family" "Unmarried" "Unmarried" ...
## $ race           : chr   "White" "White" "Black" "White" ...
## $ sex           : chr   "Female" "Female" "Female" "Female" ...
## $ capital.gain   : int    0 0 0 0 0 0 0 0 0 0 ...
## $ capital.loss   : int  4356 4356 4356 3900 3900 3770 3770 3683 3683 3004 ...
## $ hours.per.week: int   40 18 40 40 40 45 40 20 40 60 ...
## $ native.country: chr   "United-States" "United-States" "United-States" "United-States"
## ...
## $ income         : chr   "<=50K" "<=50K" "<=50K" "<=50K" ...
```

```
head(df)
```

ag	workclass	fnlwgt	education	education.num	marital.status	occupation
<int>	<chr>	<int>	<chr>	<int>	<chr>	<chr>
1 90	?	77053	HS-grad	9	Widowed	?
2 82	Private	132870	HS-grad	9	Widowed	Exec-managerial
3 66	?	186061	Some-college	10	Widowed	?
4 54	Private	140359	7th-8th	4	Divorced	Machine-op-inspct
5 41	Private	264663	Some-college	10	Separated	Prof-specialty

age	workclass	fnlwgt	education	education.num	marital.status	occupation
<int>	<chr>	<int>	<chr>	<int>	<chr>	<chr>
634	Private	216864	HS-grad	9	Divorced	Other-service

6 rows | 1-8 of 16 columns

```
df$sex <- factor(df$sex, levels = c("Male", "Female"))
df$marital.status <- factor(df$marital.status)
df$native.country <- factor(df$native.country)
df$education <- factor(df$education)
df$income <- factor(df$income)

summary(df$sex)
```

```
##      Male Female
## 21790 10771
```

```
summary(df$income)
```

```
## <=50K >50K
## 24720 7841
```

```
summary(df$marital.status)
```

```
##           Divorced   Married-AF-spouse   Married-civ-spouse
##           4443             23             14976
## Married-spouse-absent   Never-married           Separated
##           418             10683             1025
##           Widowed
##           993
```

```
summary(df$native.country)
```

```
##          ?                      Cambodia
##          583                     19
##          Canada                   China
##          121                     75
##          Columbia                  Cuba
##          59                      95
##          Dominican-Republic       Ecuador
##          70                      28
##          El-Salvador               England
##          106                      90
##          France                    Germany
##          29                      137
##          Greece                    Guatemala
##          29                      64
##          Haiti                    Holand-Netherlands
##          44                      1
##          Honduras                  Hong
##          13                      20
##          Hungary                   India
##          13                      100
##          Iran                     Ireland
##          43                      24
##          Italy                     Jamaica
##          73                      81
##          Japan                     Laos
##          62                      18
##          Mexico                    Nicaragua
##          643                     34
## Outlying-US(Guam-USVI-etc)       Peru
##          14                      31
##          Philippines               Poland
##          198                     60
##          Portugal                  Puerto-Rico
##          37                      114
##          Scotland                  South
##          12                      80
##          Taiwan                    Thailand
##          51                      18
##          Trinidad&Tobago           United-States
##          19                      29170
##          Vietnam                   Yugoslavia
##          67                      16
```

```
names(df)
```

```
## [1] "age"          "workclass"    "fnlwgt"      "education"
## [5] "education.num" "marital.status" "occupation"  "relationship"
## [9] "race"         "sex"          "capital.gain" "capital.loss"
## [13] "hours.per.week" "native.country" "income"
```

```
df$hours.per.week
```

```
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## [30097] 40 40 16 24 40 20 72 40 35 40 25 40 40 40 40 40 55 60 35 45 40 30 60
## [30121] 99 1 30 50 40 10 70 50 45 35 40 20 40 60 40 35 40 30 60 96 50 40 40 45
## [30145] 30 45 40 45 40 40 65 55 40 40 40 20 40 40 50 40 50 40 40 40 40 40 42
## [30169] 10 40 50 40 40 40 40 40 35 40 30 35 40 40 40 32 20 20 40 40 43 52 55 40
## [30193] 20 40 45 45 35 40 50 40 40 40 40 20 45 40 40 16 60 40 40 40 40 40 50
## [30217] 50 35 2 30 30 40 50 35 40 20 40 45 45 40 50 40 40 46 44 17 40 75 45 40
## [30241] 50 30 30 48 50 40 25 40 40 65 60 16 40 40 30 60 45 40 38 30 10 10 40 40
## [30265] 24 40 45 40 50 46 20 40 40 40 30 40 40 40 40 40 30 40 50 20 40 3 40
## [30289] 42 40 40 54 40 50 70 15 35 23 40 12 45 60 48 40 40 48 38 45 50 36 32 30
## [30313] 40 25 40 77 37 40 72 55 40 40 30 40 50 52 40 55 20 40 40 45 56 35 40 50
## [30337] 40 40 2 15 12 40 40 40 50 40 40 60 40 40 40 35 40 30 50 20 20 50 35 22
## [30361] 49 15 40 40 40 60 40 40 40 32 50 20 40 6 60 56 40 40 40 40 25 40 40 40
## [30385] 40 20 35 57 40 35 40 40 40 24 39 10 40 40 54 40 45 40 40 38 40 50 30 40
## [30409] 40 40 50 18 36 20 40 18 45 50 40 40 60 50 60 56 48 60 40 60 15 40 40 50
## [30433] 20 40 40 38 40 40 57 40 40 45 40 50 40 45 35 40 40 60 40 20 40 60 20 25
## [30457] 40 40 40 20 55 20 40 50 35 48 40 30 45 30 5 50 35 40 40 35 50 40 50 30
## [30481] 10 46 40 40 40 35 40 60 5 25 25 25 45 40 38 40 40 40 40 35 40 50 48 40
## [30505] 50 40 24 40 40 40 2 40 5 30 20 8 40 40 40 40 40 40 40 40 40 40 40 45
## [30529] 20 40 12 15 25 4 40 25 50 36 45 24 17 48 50 15 50 40 8 50 40 45 40 45
## [30553] 40 40 15 52 45 40 40 50 11 40 42 60 35 30 40 10 40 30 50 45 55 25 40 20
## [30577] 40 40 40 40 25 45 40 45 40 40 50 40 40 20 40 40 40 40 50 40 60 48 40 44
```

```
## [30601] 40 20 40 40 20 40 40 70 60 40 30 43 30 40 20 26 40 40 38 40 40 12 40 40
## [30625] 50 40 78 40 40 40 48 40 40 50 40 40 40 40 40 40 40 45 40 50 40 40 40
## [30649] 50 53 40 40 40 18 40 40 40 38 40 18 43 40 52 50 40 45 50 40 40 40 45 40
## [30673] 40 40 40 40 40 38 37 40 70 45 30 4 50 55 40 40 25 35 48 20 32 40 45 38
## [30697] 40 45 20 55 40 32 40 60 40 40 40 37 43 40 45 25 40 48 20 30 25 60 40 35
## [30721] 55 40 40 60 40 30 40 40 40 40 60 40 40 57 44 20 15 40 40 15 60 50 50 40
## [30745] 30 30 45 30 42 10 50 30 38 60 40 40 37 35 40 35 40 32 33 40 40 42 30 40
## [30769] 45 48 40 32 35 40 44 46 10 25 40 35 40 46 40 40 84 25 35 65 40 40 20 30
## [30793] 30 80 60 50 20 50 40 40 60 40 40 30 50 40 15 30 47 30 40 50 35 85 60 30
## [30817] 60 40 40 60 50 40 50 40 13 40 40 40 45 40 40 38 40 20 40 40 40 40 40 40
## [30841] 35 55 65 40 38 52 40 40 40 40 40 30 40 10 10 50 60 55 50 40 40 40 99 40
## [30865] 40 25 35 40 40 45 40 50 50 35 32 10 40 32 30 40 40 35 40 37 40 60 40 40
## [30889] 60 30 40 40 40 42 40 40 65 42 50 40 40 40 40 25 40 45 40 40 60 40 55 40
## [30913] 35 45 36 28 40 44 16 18 40 40 52 40 30 40 45 68 40 40 28 30 40 40 40 35
## [30937] 40 48 40 40 40 30 40 15 50 40 35 12 40 20 70 65 40 40 40 40 35 30 35 40
## [30961] 40 40 3 40 40 40 40 40 20 50 40 40 24 20 40 25 40 40 40 40 44 40 99
## [30985] 40 40 40 40 40 40 35 30 25 99 25 40 35 40 55 40 20 8 52 40 40 40 45 5
## [31009] 40 38 55 40 20 40 60 10 35 45 45 25 37 40 40 40 40 50 40 40 90 50 40 60
## [31033] 40 40 40 45 40 40 40 24 40 40 20 55 40 40 40 25 25 53 37 30 35 45 40 40
## [31057] 40 20 40 30 40 48 50 40 40 48 40 48 40 40 40 40 40 45 38 24 37 40 30
## [31081] 20 20 48 40 50 30 40 40 40 35 30 40 48 50 40 40 40 72 35 50 40 40 9 40
## [31105] 40 20 12 45 35 45 15 37 40 35 40 7 38 40 30 20 37 40 50 40 60 65 40 40
## [31129] 18 17 52 30 40 60 45 40 20 40 40 50 40 40 40 60 30 40 52 65 50 13 40 38
## [31153] 16 40 40 43 20 52 40 50 40 70 40 40 60 55 40 53 45 27 58 40 40 50 40 40
## [31177] 40 50 40 40 40 37 40 40 40 99 38 60 60 35 40 40 50 50 8 35 40 40 32 40
## [31201] 40 45 40 62 45 40 40 40 40 50 40 40 40 50 40 60 40 30 40 40 40 60 40 40
## [31225] 40 12 40 60 50 8 40 60 80 40 35 48 45 36 25 20 50 45 35 50 40 40 40 25
## [31249] 40 40 45 40 40 40 40 40 60 15 50 20 55 50 60 34 40 25 40 40 45 8 36 30
## [31273] 60 25 40 40 40 40 40 50 40 48 40 24 40 60 40 90 40 40 60 5 40 55 40 40
## [31297] 45 40 40 40 39 40 20 48 40 30 35 15 40 5 40 45 20 40 50 10 40 35 50 70
## [31321] 70 60 30 75 40 8 40 28 20 40 40 35 50 45 90 40 40 70 50 40 46 50 40 40
## [31345] 60 50 25 25 50 35 40 40 40 40 40 45 43 40 41 35 45 40 40 40 40 40 40 45
## [31369] 50 60 10 40 20 40 40 45 45 40 40 40 25 20 60 40 40 20 40 40 50 50 35 60
## [31393] 47 40 40 35 40 40 33 25 40 40 50 40 60 52 50 40 40 40 15 50 35 50 37 50
## [31417] 35 65 40 50 20 40 40 40 66 20 40 20 48 40 42 35 40 25 40 40 16 38 40 60
## [31441] 45 50 8 60 40 40 33 40 40 45 40 40 50 50 44 45 40 20 35 40 40 50 30 40
## [31465] 40 40 40 30 40 40 50 40 38 35 40 25 40 50 40 60 48 45 40 40 40 70 45 40
## [31489] 40 40 40 40 40 40 40 50 40 40 45 27 40 45 20 16 38 20 58 45 40 40 50 52
## [31513] 40 40 40 15 32 40 40 35 40 50 15 40 45 35 50 40 2 45 3 35 30 36 45 40
## [31537] 55 20 30 55 40 50 50 40 40 45 40 55 50 30 40 40 40 40 38 42 40 17 40 40
## [31561] 40 25 40 37 45 20 2 55 40 40 35 30 40 20 40 55 35 40 16 50 40 50 55 20
## [31585] 50 30 50 20 25 45 50 40 40 50 32 25 60 40 35 40 50 20 40 10 35 35 40 20
## [31609] 40 40 40 42 35 40 40 40 40 40 45 25 40 50 40 40 40 30 40 64 54 40 40 40
## [31633] 40 50 40 50 40 40 40 40 52 55 40 4 40 40 35 40 40 50 30 40 40 80 50 42
## [31657] 42 40 30 55 37 40 40 47 40 40 35 40 44 40 20 40 40 40 50 40 20 45 44 40
## [31681] 45 50 40 50 40 40 40 45 40 50 40 40 40 50 40 40 55 45 40 40 40 20 40 50
## [31705] 50 40 41 40 40 40 40 40 40 80 40 40 40 40 26 40 40 40 40 40 40 60 60
## [31729] 60 48 40 40 40 40 53 30 35 16 40 22 40 40 40 50 40 25 20 40 40 40 60 60
## [31753] 30 40 40 40 58 40 45 40 90 60 50 70 36 35 24 40 40 25 47 40 40 40 32
## [31777] 4 40 65 40 60 40 55 40 20 40 65 40 20 40 40 25 30 40 40 40 40 48 40 40
## [31801] 40 20 99 12 45 40 50 48 65 20 40 4 40 24 40 35 45 55 50 75 45 40 32 33
```

```
## [31825] 10 35 40 36 50 30 40 40 40 55 10 30 38 55 30 40 40 40 50 55 40 55 40 17
## [31849] 50 15 40 18 80 30 40 35 20 40 40 50 40 50 40 40 25 40 25 40 40 15 55 40
## [31873] 25 25 30 40 40 40 60 48 50 40 40 40 23 30 40 35 36 40 48 24 70 50 50 40
## [31897] 3 40 45 48 40 48 52 45 20 40 45 30 40 40 40 40 55 40 40 60 50 45 65 68
## [31921] 37 40 45 4 3 40 60 40 40 10 60 42 30 40 98 40 48 40 40 20 16 40 50 45
## [31945] 40 30 40 45 25 40 40 15 40 65 40 25 35 40 40 24 60 55 38 40 40 40 34 50
## [31969] 30 24 40 45 45 40 50 45 50 55 25 40 56 40 40 40 40 30 30 40 25 40 37 38
## [31993] 18 20 40 15 35 35 45 40 60 40 40 40 40 50 50 40 45 30 55 40 60 32 38 40
## [32017] 40 60 15 35 40 24 12 40 43 40 40 50 40 40 50 40 36 40 30 35 70 40 40 48
## [32041] 40 30 50 45 52 65 60 20 35 40 50 52 40 40 40 40 40 40 30 40 35 40 20 45
## [32065] 52 14 40 70 50 12 40 15 38 80 62 25 50 45 40 55 40 40 40 40 40 35 5 48
## [32089] 36 40 40 40 40 25 40 50 30 40 20 40 50 5 40 40 60 45 60 40 40 30 60 40
## [32113] 50 50 30 40 45 40 38 30 50 40 43 40 40 60 40 40 20 45 40 25 35 40 40 60
## [32137] 40 80 42 40 40 40 40 45 40 45 24 15 40 40 40 40 40 40 10 40 56 40 40 60
## [32161] 40 30 40 30 50 60 40 50 40 40 10 40 40 40 45 40 40 40 40 40 32 40 20 40
## [32185] 70 50 44 40 40 40 15 40 40 45 24 40 65 40 25 42 25 50 10 44 80 40 20 60
## [32209] 40 40 12 30 40 38 40 35 37 60 42 40 40 40 40 30 55 45 50 38 50 50 12 55
## [32233] 36 40 40 65 20 40 60 50 20 40 40 60 45 35 15 40 35 20 40 40 20 40 30 40
## [32257] 40 37 40 35 40 35 20 45 40 35 40 40 40 40 40 44 45 40 38 46 40 35 65 10
## [32281] 50 50 40 40 40 50 35 25 40 30 60 31 40 40 16 40 40 40 32 72 36 20 45 30
## [32305] 48 25 40 40 60 50 25 70 10 50 40 60 20 40 56 40 48 40 40 50 40 30 40 40
## [32329] 50 40 40 40 45 40 40 40 35 40 4 48 8 5 40 37 72 40 43 40 40 37 45 40
## [32353] 38 40 40 45 72 50 40 25 40 55 35 40 45 40 40 45 12 40 20 55 40 40 40 40
## [32377] 48 20 15 55 42 75 40 45 40 40 76 40 40 50 60 60 40 40 40 40 70 40 37 40
## [32401] 42 40 50 45 40 40 20 47 40 81 35 35 50 40 40 30 40 89 40 40 40 40 45 40
## [32425] 40 25 48 40 40 45 50 56 40 55 50 35 32 30 45 35 40 32 40 45 56 48 72 50
## [32449] 40 50 49 20 40 60 40 40 38 20 40 50 40 20 32 45 40 50 30 50 3 32 32 40
## [32473] 45 25 48 65 99 50 50 55 52 45 84 40 40 40 40 40 25 40 40 35 60 40 40
## [32497] 35 40 50 40 3 65 20 28 40 40 40 50 40 50 40 55 40 38 45 45 40 40 22 45
## [32521] 24 40 48 64 40 40 55 15 1 40 40 40 35 55 99 60 50 39 35 55 46 10 40 32
## [32545] 25 48 30 20 40 40 40 50 40 45 11 40 40 38 40 40 20
```

Try drawing out a linear model * first graph gives an overview of the relationship of age distribution amount different education level * Second graph draw out the age and income relationship with an ab line being drawn.
* Third graph shows there seem to be linear correlation between hour per week and income

```
plot(df$age~df$education, xlab = "Education level", ylab = " Age")
```



```
plot(df$age~df$income, xlab = "Income", ylab = " Age")
```




```
plot(df$income~df$hours.per.week, xlab = "Hours.per.week", ylab = "income")

abline(lm(df$age~df$income),col = "green")

abline(lm(df$income~df$hours.per.week),col = "yellow")
```

```
## Warning in model.response(mf, "numeric"): using type = "numeric" with a factor
## response will be ignored
```

```
## Warning in Ops.factor(y, z$residuals): '-' not meaningful for factors
```



*

Set the df again with only age(1), education.num (5), capital.loss (12) and hours.per.week(13)

```
df <- df[c(1,5,12,13)]  
summary(df)
```

##	age	education.num	capital.loss	hours.per.week
##	Min. :17.00	Min. : 1.00	Min. : 0.0	Min. : 1.00
##	1st Qu.:28.00	1st Qu.: 9.00	1st Qu.: 0.0	1st Qu.:40.00
##	Median :37.00	Median :10.00	Median : 0.0	Median :40.00
##	Mean :38.58	Mean :10.08	Mean : 87.3	Mean :40.44
##	3rd Qu.:48.00	3rd Qu.:12.00	3rd Qu.: 0.0	3rd Qu.:45.00
##	Max. :90.00	Max. :16.00	Max. :4356.0	Max. :99.00

- Divide into train and test

```
set.seed(3108)
i<- sample(1:nrow(df), 0.8*nrow(df),replace = FALSE)
train <-df[i,]
test<-df[-i,]
df
```

age <int>	education.num <int>	capital.loss <int>	hours.per.week <int>
90	9	4356	40
82	9	4356	18
66	10	4356	40
54	4	3900	40
41	10	3900	40
34	9	3770	45
38	6	3770	40
74	16	3683	20
68	9	3683	40
41	10	3004	60
1-10 of 10,000 rows		Previous	1 2 3 4 5 6 ... 1000 Next

- Build a linear regression model of age v.s capital loss
- plot residual in 2 by 2 layout

What is shows: * Normal Q-Q graph shows the residual line is nearly fitted to the regression graph. * Spread location graph shows our data seem to be more crowded in the middle * The last graph on the leverage doesn't show there are many outliers in the dataset *

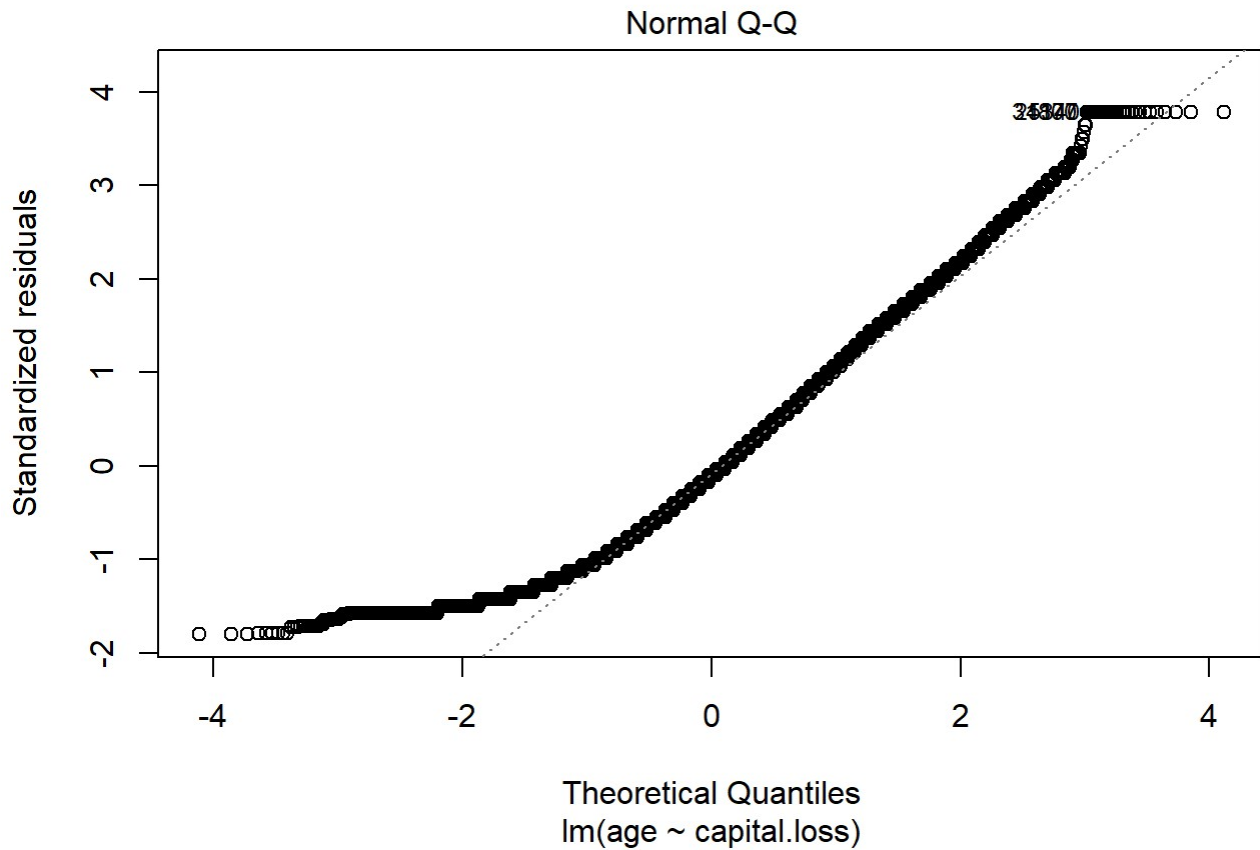
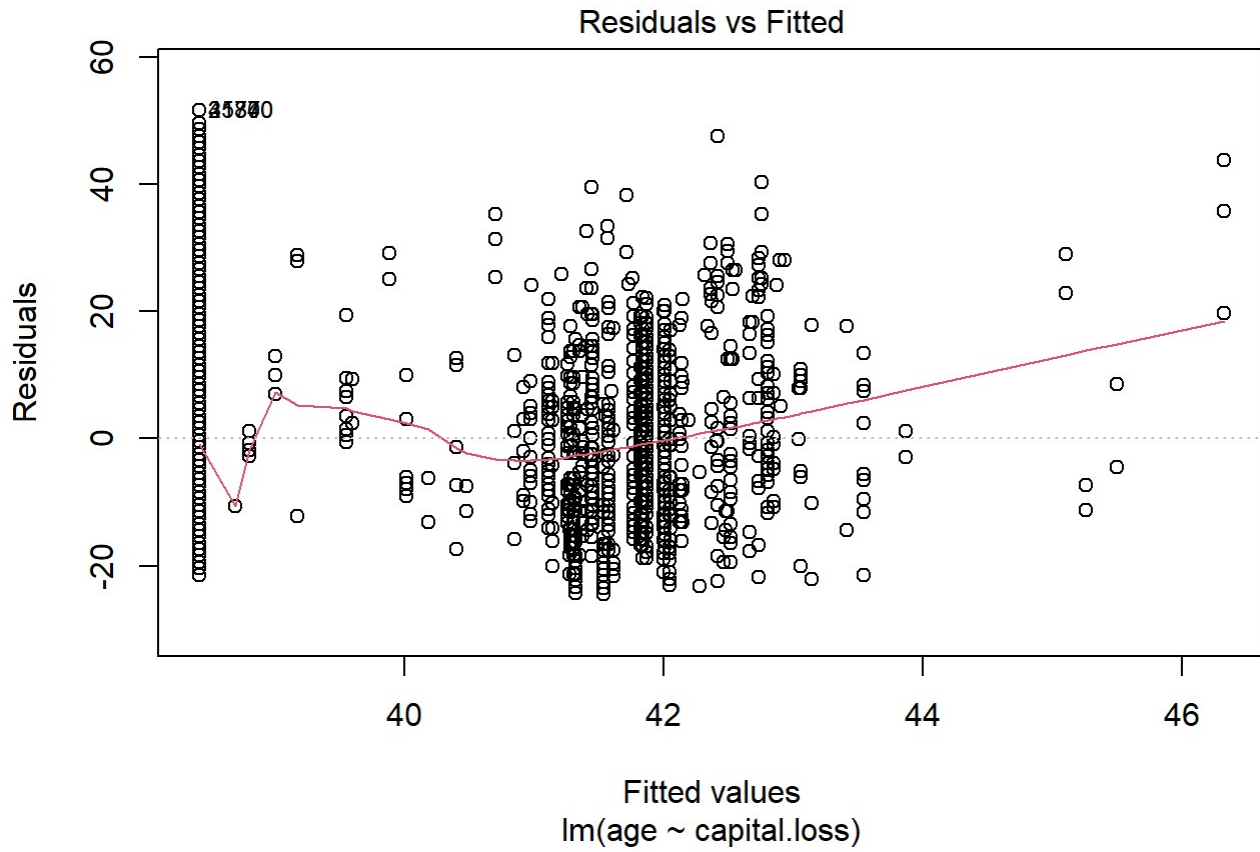
```
lm1<-lm(age~ capital.loss, data = train)
summary (lm1)
```

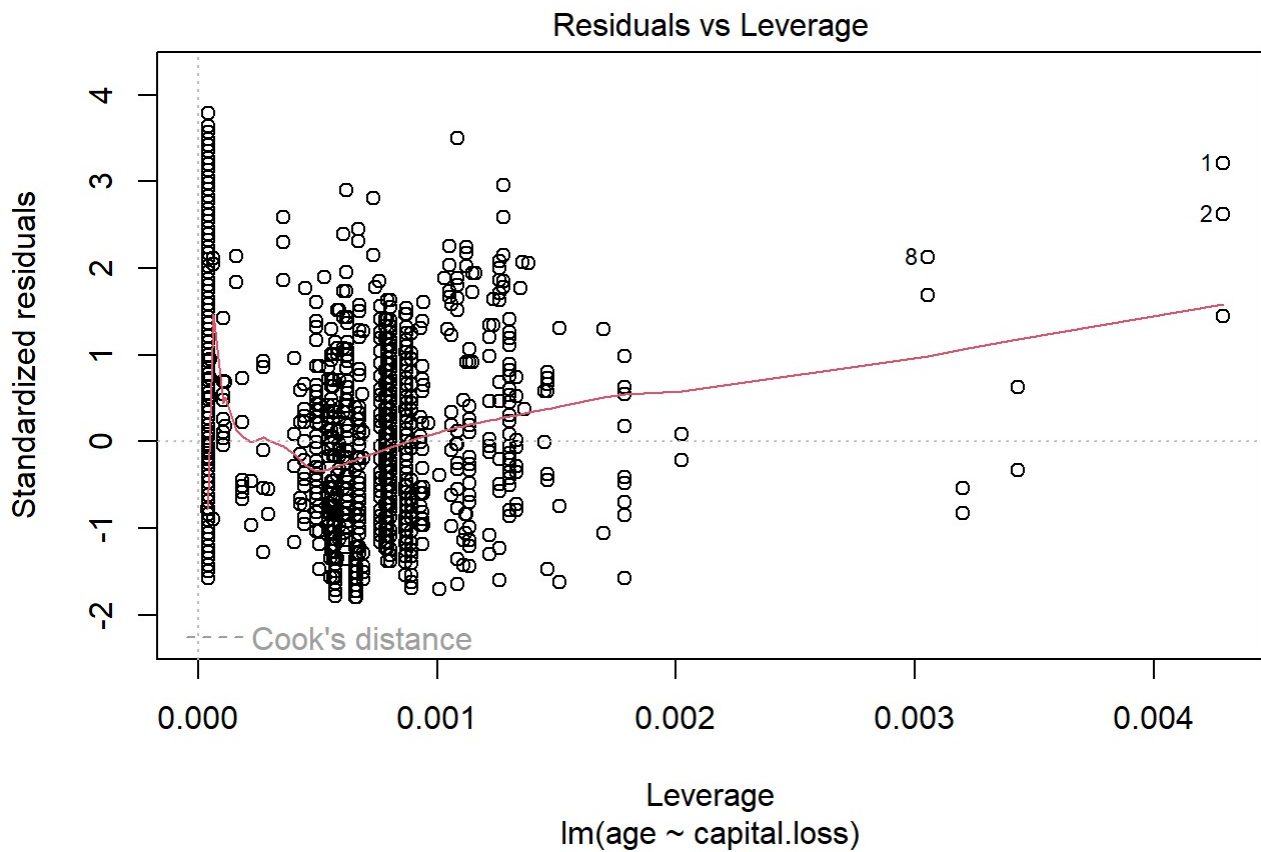
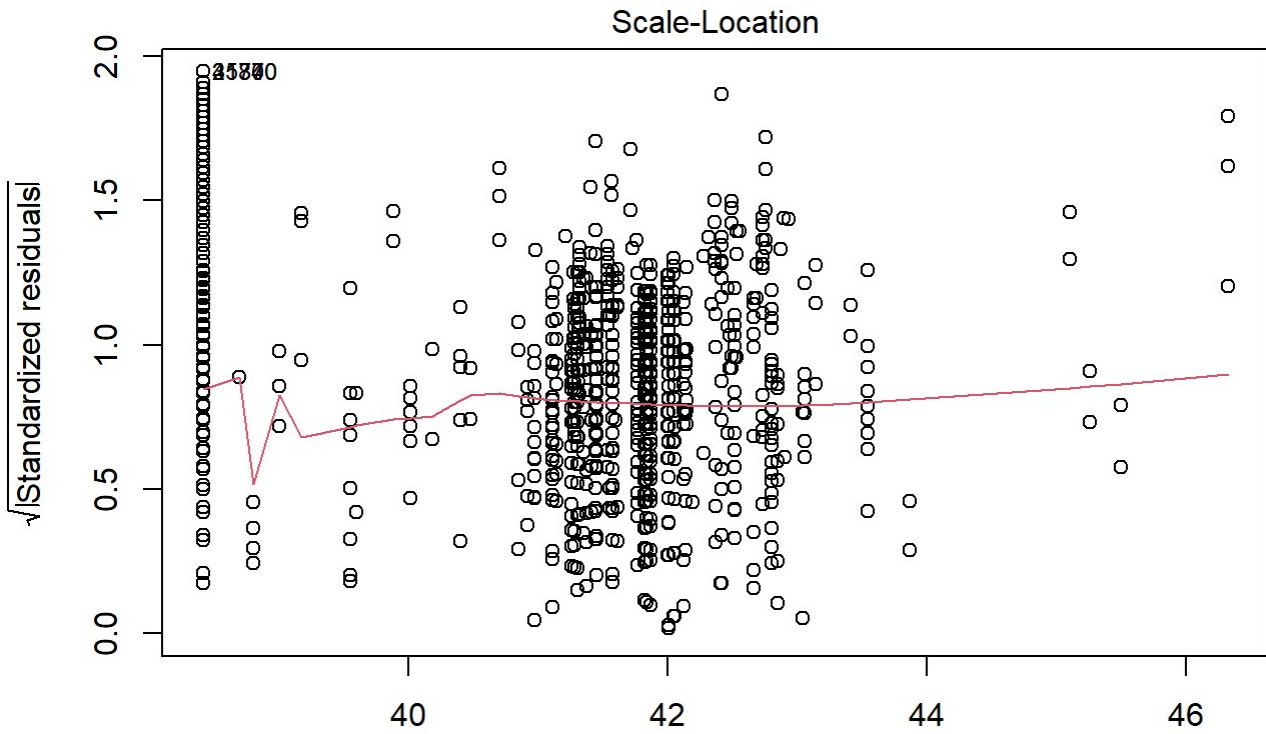
```
##
## Call:
## lm(formula = age ~ capital.loss, data = train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -24.540 -10.868  -1.414   8.586  51.586
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  3.841e+01  8.637e-02  444.767  <2e-16 ***
## capital.loss  1.816e-03  2.081e-04   8.728  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 13.62 on 26046 degrees of freedom
## Multiple R-squared:  0.002916,    Adjusted R-squared:  0.002878
## F-statistic: 76.17 on 1 and 26046 DF,  p-value: < 2.2e-16
```

```
lm1
```

```
##
## Call:
## lm(formula = age ~ capital.loss, data = train)
##
## Coefficients:
## (Intercept) capital.loss
##    38.414380     0.001816
```

```
plot(lm1)
```





- Build a linear regression model of age ~ income with added predictor of education
- What is shows:
 1. Fitted graph shows there is no obvious linear relationships between these predictors 2. Normal Q-Q shows the data are normally distributed
 2. Leverage graph shows there are no significant influential cases in the data

With the R squared being 0.0547, R doesn't think is is that good of a model.

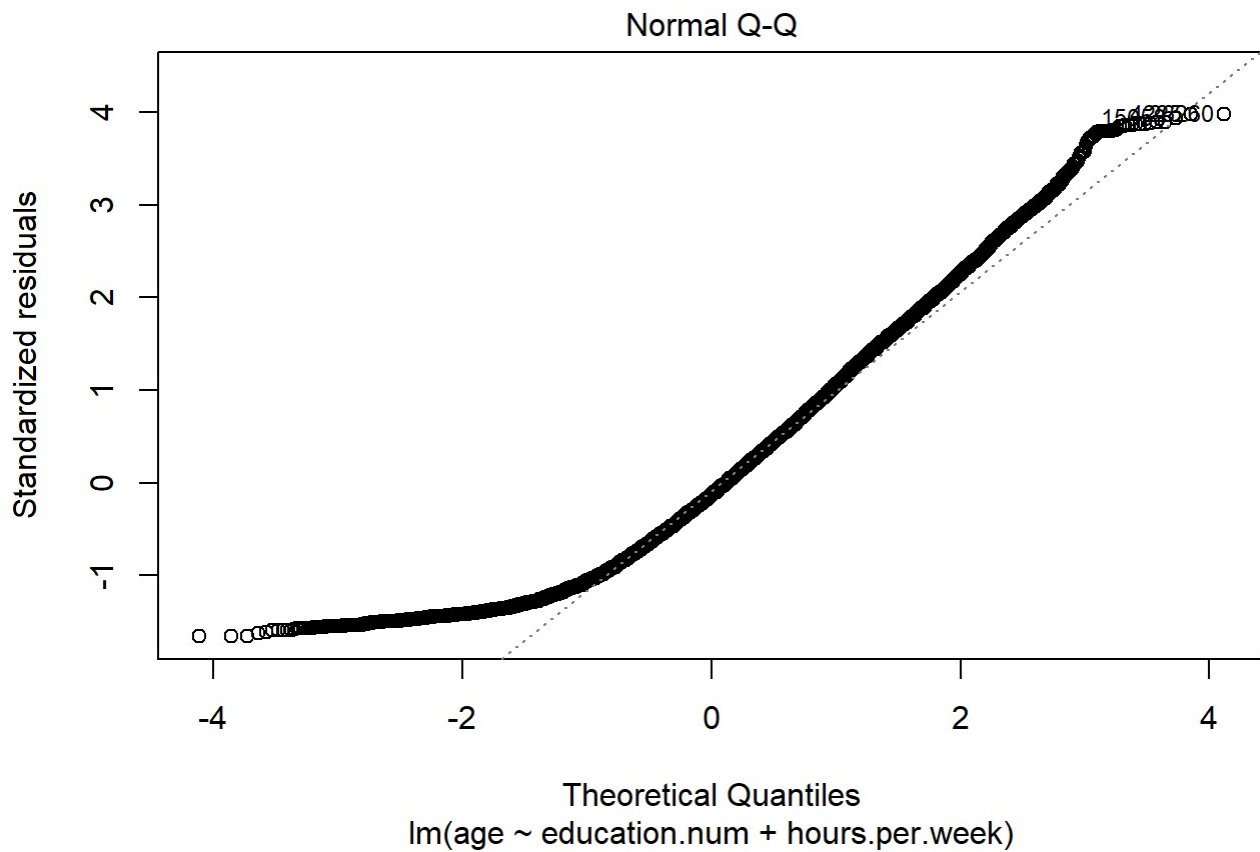
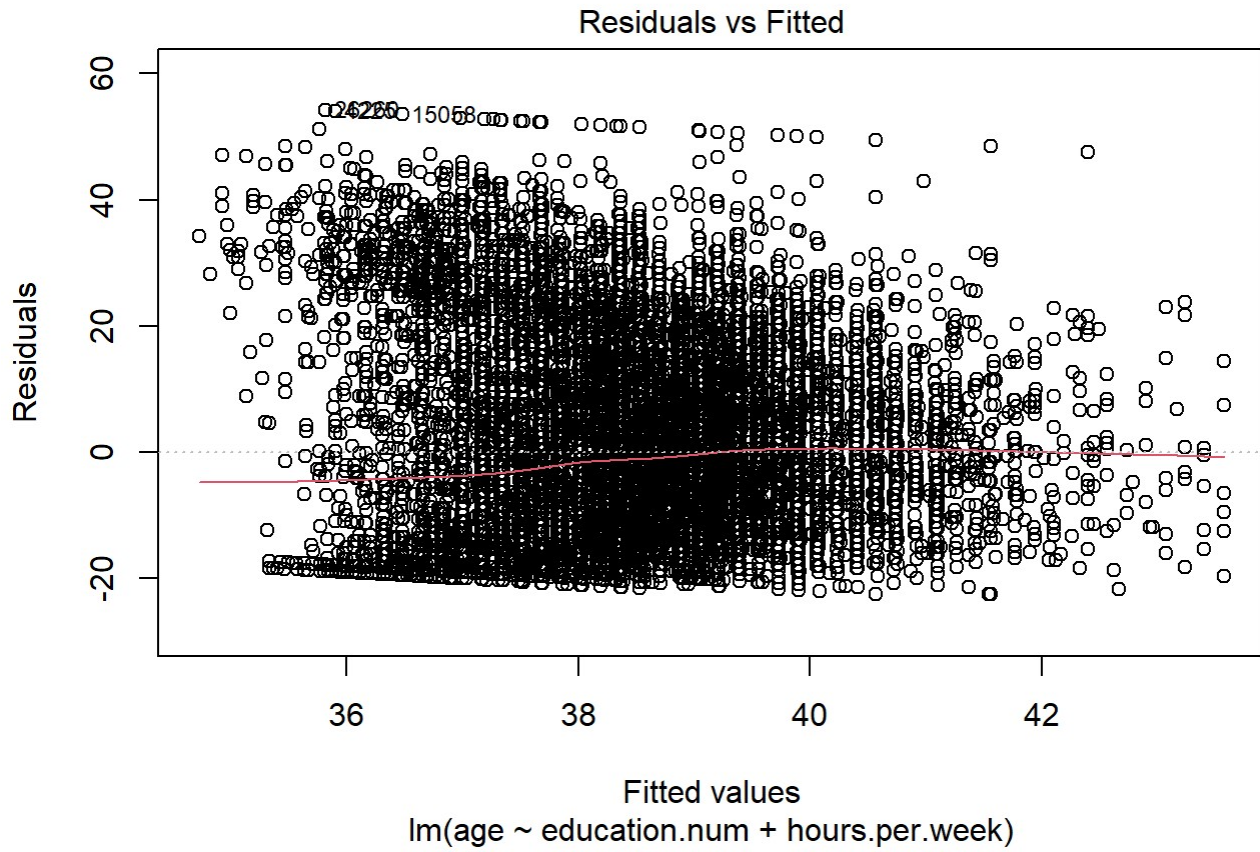
```
lm2<- lm(age ~ education.num+hours.per.week, data = train)
summary (lm2)
```

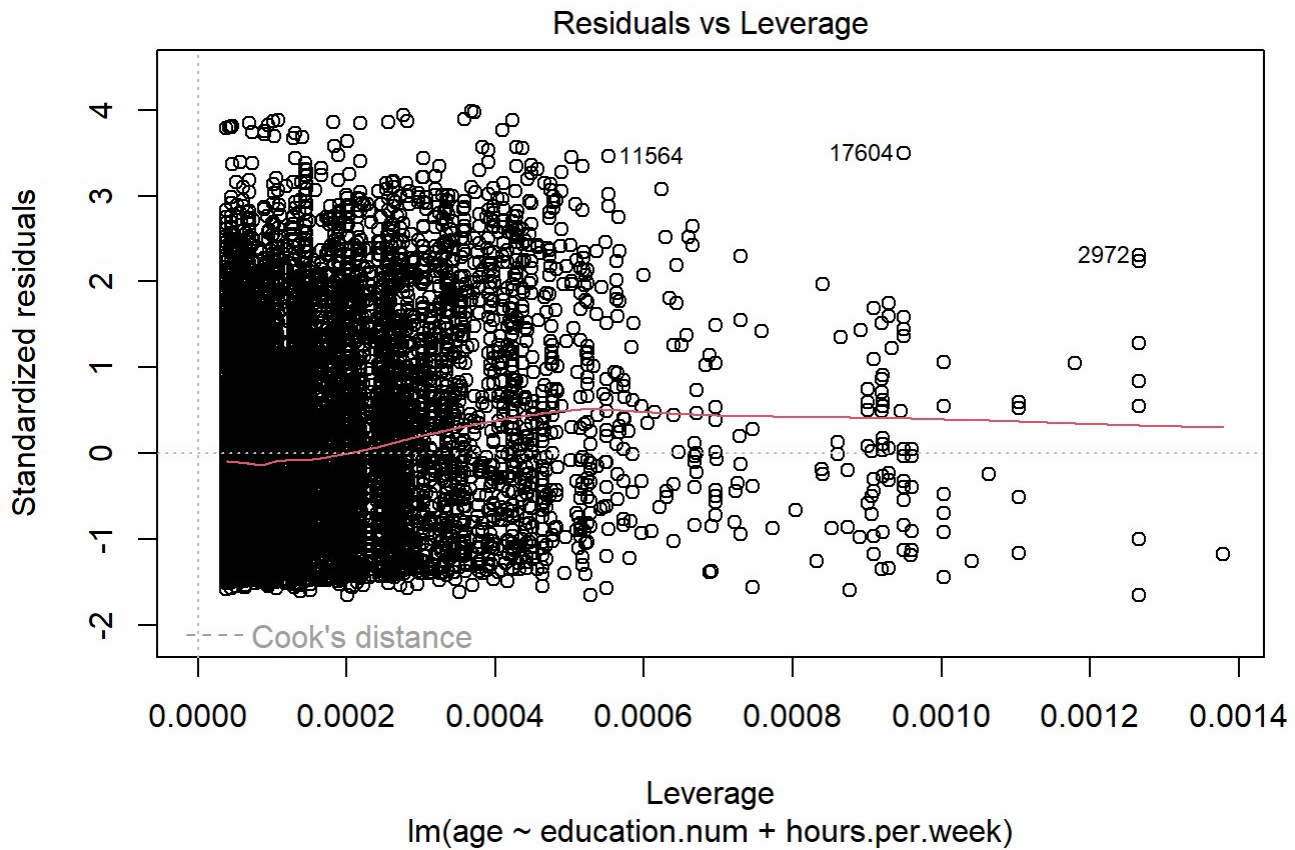
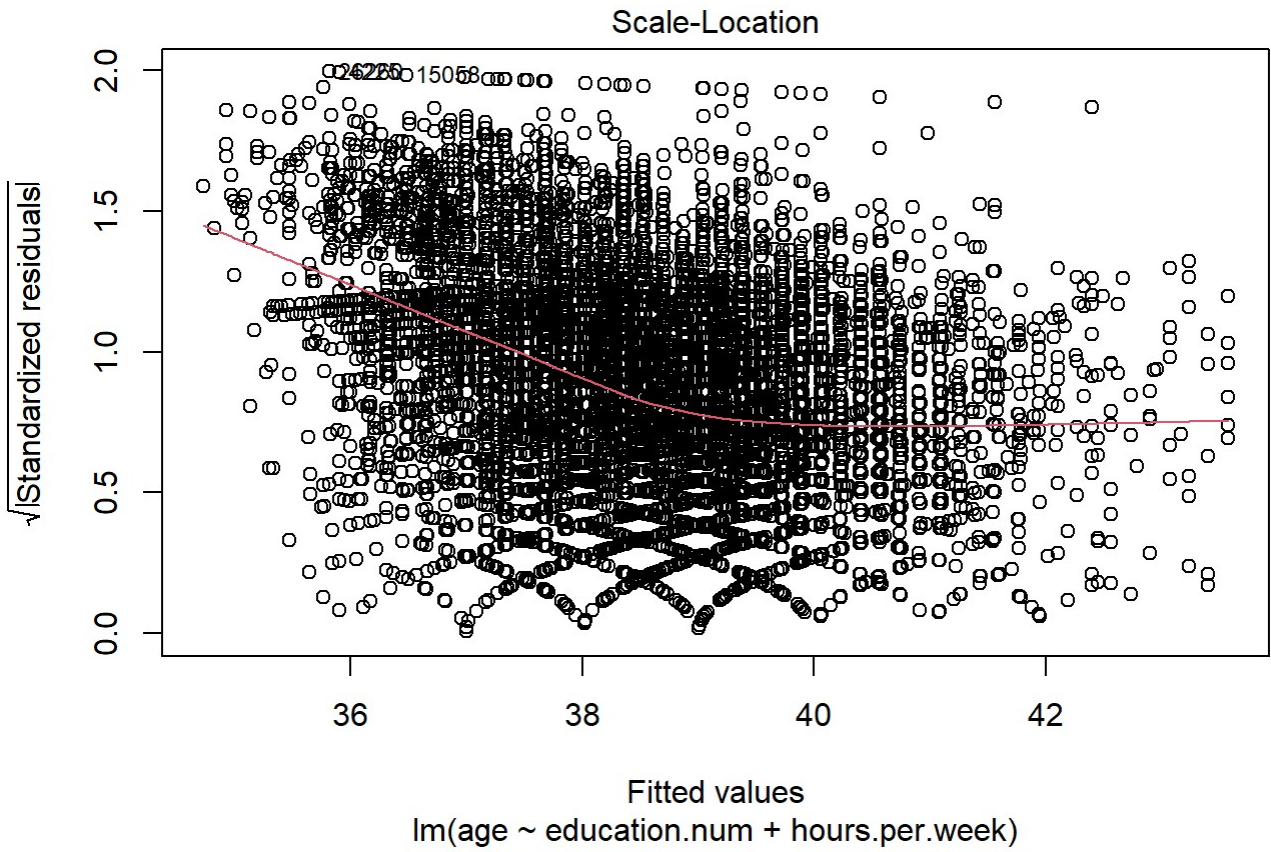
```
##
## Call:
## lm(formula = age ~ education.num + hours.per.week, data = train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -22.569 -11.035  -1.718   8.665  54.180
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   34.125491    0.411151  83.000  < 2e-16 ***
## education.num    0.167522    0.033097   5.061 4.19e-07 ***
## hours.per.week   0.068304    0.006897   9.904  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 13.6 on 26045 degrees of freedom
## Multiple R-squared:  0.005394,    Adjusted R-squared:  0.005318
## F-statistic: 70.62 on 2 and 26045 DF,  p-value: < 2.2e-16
```

```
lm2
```

```
##
## Call:
## lm(formula = age ~ education.num + hours.per.week, data = train)
##
## Coefficients:
##      (Intercept)  education.num  hours.per.week
##           34.1255           0.1675           0.0683
```

```
plot(lm2)
```





Third linear model

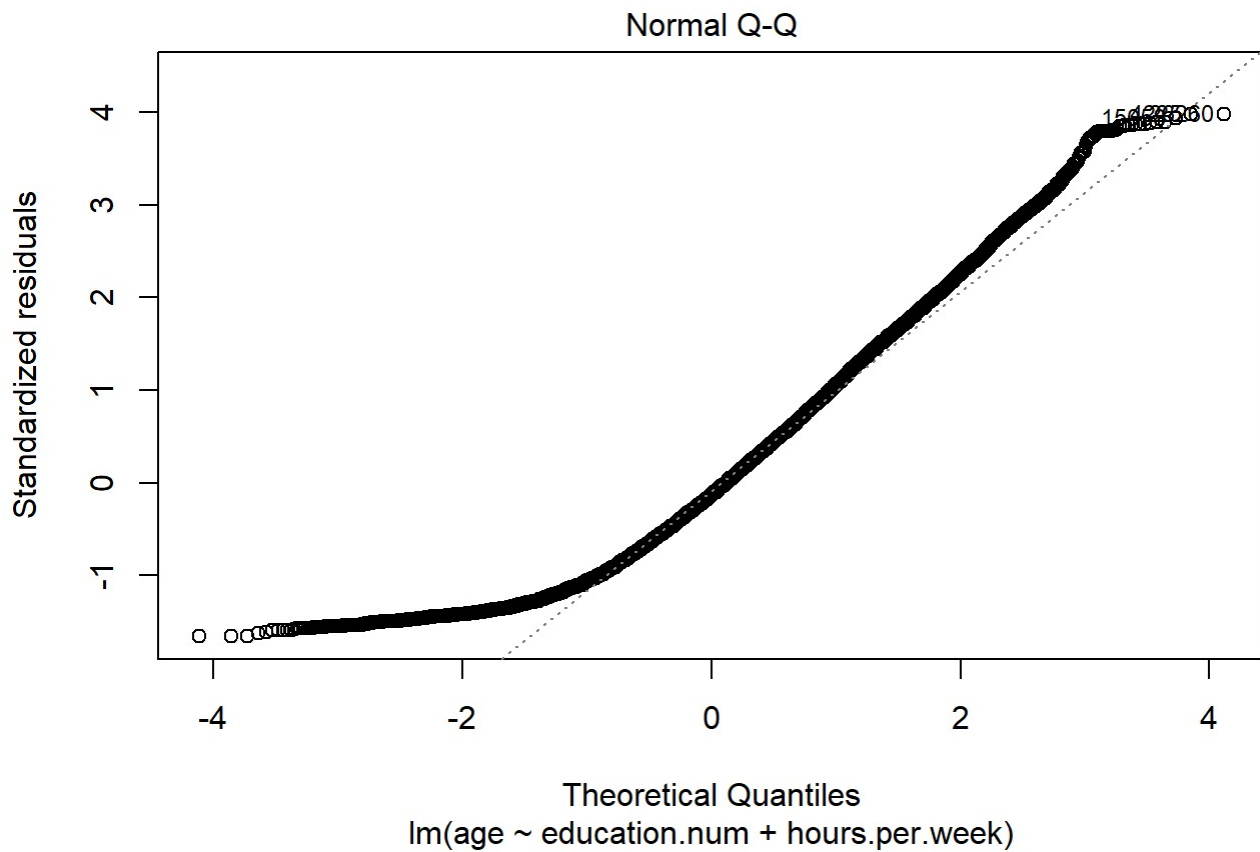
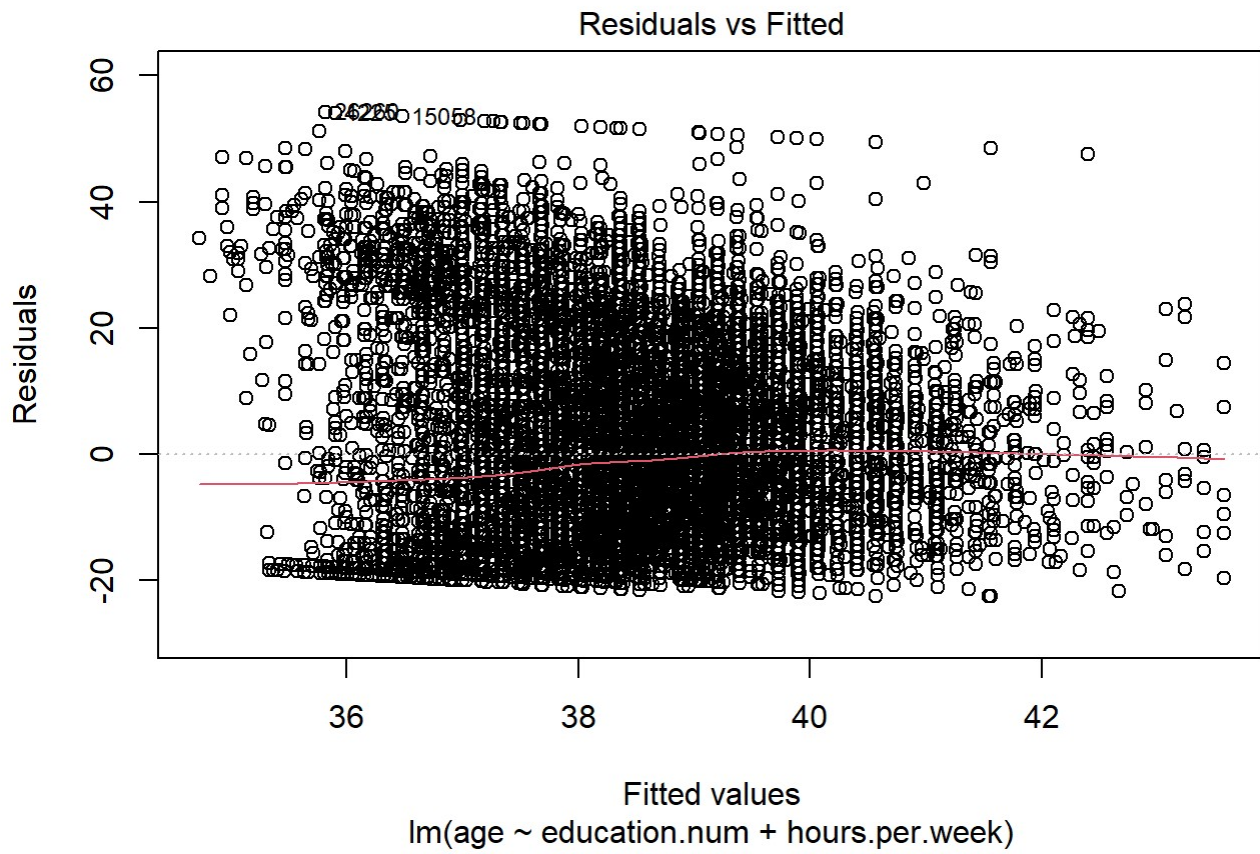
```
lm3<- lm(age~ education.num+hours.per.week , data = train)
summary (lm3)
```

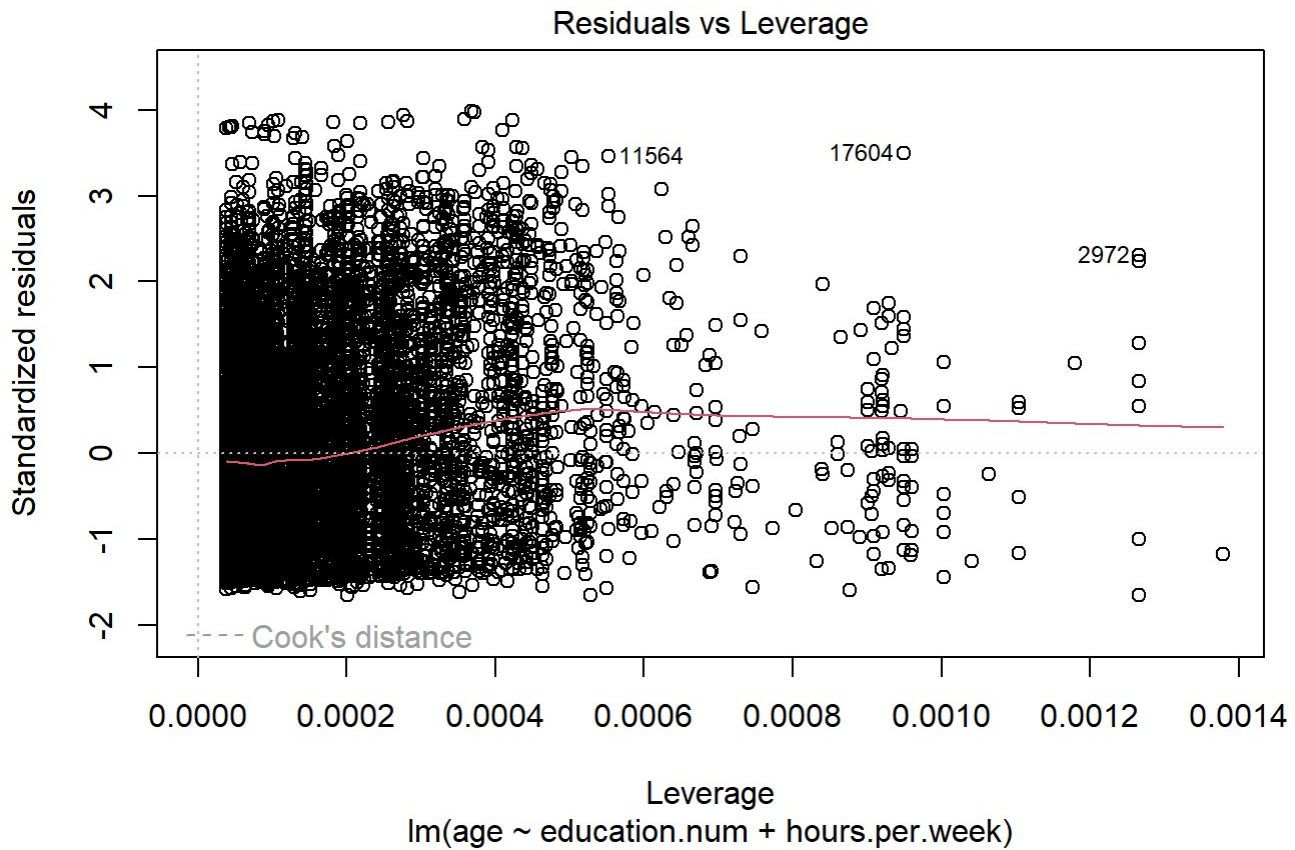
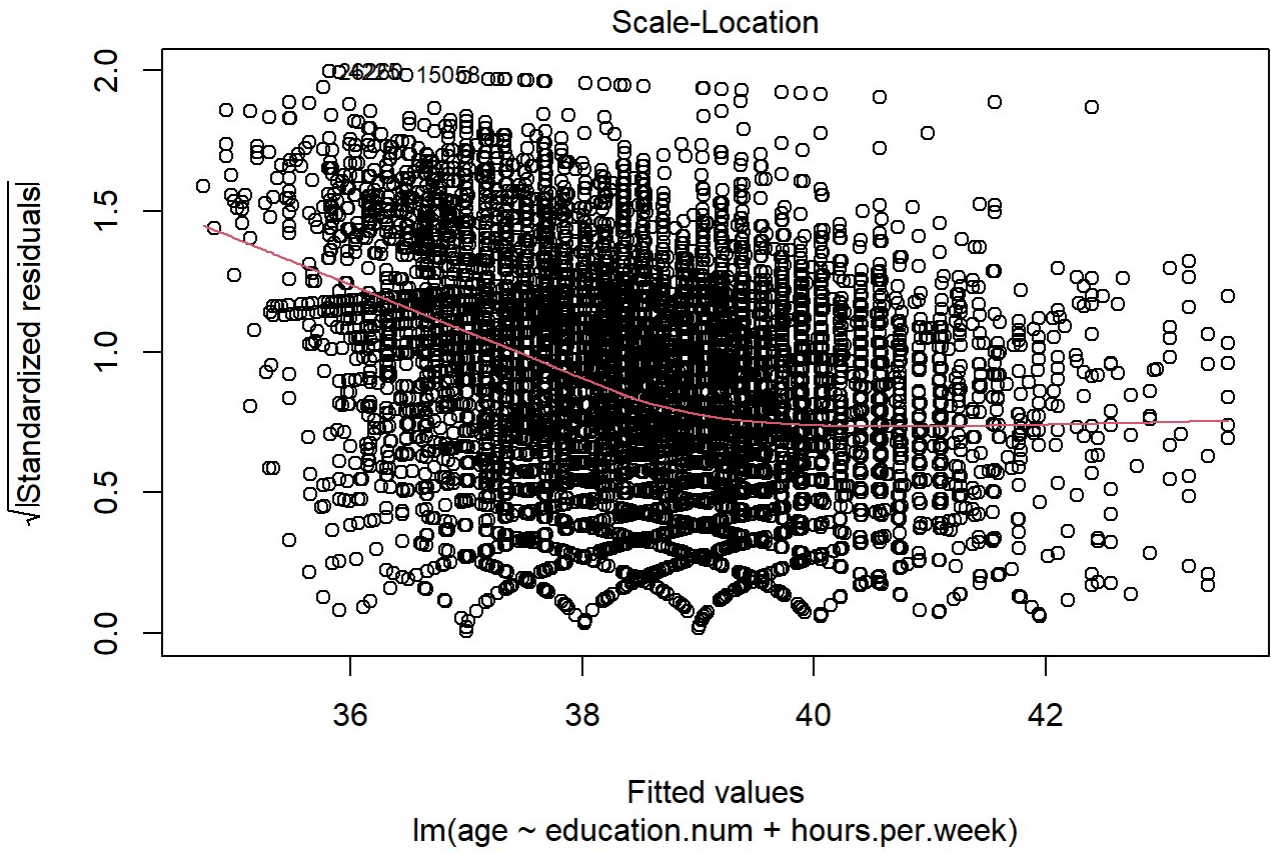
```
##
## Call:
## lm(formula = age ~ education.num + hours.per.week, data = train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -22.569 -11.035  -1.718   8.665  54.180
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   34.125491    0.411151  83.000  < 2e-16 ***
## education.num    0.167522    0.033097   5.061 4.19e-07 ***
## hours.per.week  0.068304    0.006897   9.904  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 13.6 on 26045 degrees of freedom
## Multiple R-squared:  0.005394,    Adjusted R-squared:  0.005318
## F-statistic: 70.62 on 2 and 26045 DF,  p-value: < 2.2e-16
```

```
lm3
```

```
##
## Call:
## lm(formula = age ~ education.num + hours.per.week, data = train)
##
## Coefficients:
##      (Intercept)  education.num  hours.per.week
##           34.1255           0.1675           0.0683
```

```
plot(lm3)
```





Comparison of lm1 lm2 lm3. Model 2 and 3 has a lowed residual sun or squared error which means the model was improving Model 2 has a better fit as it has the lowest p value.

```
anova(lm1, lm2, lm3)
```

	Res.Df <dbl>	RSS <dbl>	Df <dbl>	Sum of Sq <dbl>	F <dbl>	Pr(>F) <dbl>
1	26046	4831836	NA	NA	NA	NA
2	26045	4819828	1	12008.05	64.88813	8.263921e-16
3	26045	4819828	0	0.00	NA	NA

3 rows

Evaluate

Prediction section: Correlation between lm 1, 2, 3 shows my model a has a perfect correlation

```
pred1 <- predict(lm1, newdata = test)
pred2 <- predict(lm2, newdata = test)
pred3 <- predict(lm3, newdata = test)
cor1 <- cor(pred1, test$capital.loss)
print(paste('correlaton: ', cor1))
```

```
## [1] "correlaton: 1"
```

```
cor2 <- cor(pred2, test$capital.loss)
print(paste('correlaton: ', cor2))
```

```
## [1] "correlaton: 0.0722102258052378"
```

```
cor3 <- cor(pred3, test$capital.loss)
print(paste('correlaton: ', cor3))
```

```
## [1] "correlaton: 0.0722102258052378"
```

Lower mean squared error on model 3 indicating it has better accuracy Adding a predictor on model2 and 3 had a positive impact on our data model. Adjusting the order of the predictor "education.num hours.per.week had also made positive impact on the mse.

```
mse1 <- mean(pred1 - test$age)^2
print(paste('mse: ', mse1))
```

```
## [1] "mse: 0.00190341465225723"
```

```
mse2<-mean(pred2 - test$age)^2  
print(paste('mse: ',mse2))
```

```
## [1] "mse:  0.000726758125926413"
```

```
mse3<-mean(pred3 - test$age)^2  
print(paste('mse: ',mse3))
```

```
## [1] "mse:  0.000726758125926413"
```

When you save the notebook, an HTML file containing the code and output will be saved alongside it (click the *Preview* button or press *Ctrl+Shift+K* to preview the HTML file).

The preview shows you a rendered HTML copy of the contents of the editor. Consequently, unlike *Knit*, *Preview* does not run any R code chunks. Instead, the output of the chunk when it was last run in the editor is displayed.