hw2

Shuangshuang Xu

2019/9/8

Problem 3

The version control can help keep all my codes, and help compare the difference between two versions. It is indispensable if I need to work with classmates on a project.

Problem 4

sensory data

Table 1: summary of sensory data.

X1	X2	X3	X4	X5
Min. :0.900	Min. :1.500	Min. :0.800	Min. :0.900	Min. :0.700
1st Qu.:2.850	1st Qu.:3.450	1st Qu.:2.650	1st Qu.:3.925	1st Qu.:2.250
Median :4.550	Median :4.950	Median :4.150	Median :5.400	Median :4.600
Mean :4.593	Mean :5.063	Mean :4.167	Mean :5.193	Mean :4.267
3rd Qu.:5.950	3rd Qu.:6.225	3rd Qu.:5.400	3rd Qu.:6.275	3rd Qu.:5.800
Max. :9.000	Max. :9.200	Max. :9.000	Max. :9.400	Max. :8.800

gold medal

Table 2: summary of gold medal data.

year	long.dump
Min. :-4.00	Min. :249.8
1st Qu.:21.00	1st Qu.:295.4
Median :50.00	Median :308.1
Mean :45.45	Mean :310.3
3rd Qu.:71.00	3rd Qu.:327.5
Max. :92.00	Max. :350.5

body weight and brain weight

Table 3: summary of weight data.

Body.Wt	Brain.wt
Min. : 0.005	Min. : 0.10
1st Qu.: 0.600	1st Qu.: 4.25
Median : 3.342	Median : 17.25

Body.Wt	Brain.wt
Mean : 198.790	Mean : 283.13
3rd Qu.: 48.203	3rd Qu.: 166.00
Max. :6654.000	Max. :5712.00

tomato

Table 4: table of tomato data.

variable	10000	20000	30000
Ife#1	16.1,15.3,17.5	16.6,19.2,18.5	20.8,18.0,21.0
PusaEarlyDwarf	8.1,8.6,10.1,	12.7,13.7,11.5	14.4,15.4,13.7

Problem 5

Table 5: table of linear regression result

	Dependent variable:
	pH_range
Foliage_ColorGray-Green	0.535^{***}
	(0.180)
Foliage_ColorGreen	0.191^{**}
	(0.092)
Foliage_ColorRed	-0.252
	(0.403)
Foliage_ColorWhite-Gray	0.468^{*}
	(0.276)
Foliage_ColorYellow-Green	-0.202
	(0.196)
Constant	2.177^{***}
	(0.087)
Observations	832
R^2	0.020
Adjusted R^2	0.014
Residual Std. Error	0.786 (df = 826)
F Statistic	3.322^{***} (df = 5; 826)
Note:	*p<0.1; **p<0.05; ***p<0.01

Table 6: table of anova result

(Intercept)	green	yellow_green	dark_green	white_gray	gray_green	red
1.925	0.443	0.050	0.252	0.719	0.787	