

R마크다운파일

나의 첫번째 R마크다운

알파고

2018-09-27

Contents

1	데이타셋 로딩	1
1.0.1	구분 추가 단축키	2
1.0.2	- Ctrl + Alt + i	2
2	mtcars 시각화	2
3	차량무게에 따른 연비	2
3.1	산점도 매트릭스와 차량무게 - 연비간 산점도 2개 그래프 작성	2
3.2	내부 구조 파악	4
3.2.1	utils패키지와 str() 함수이용	4
3.2.2	4

1 데이타셋 로딩

```
data(mtcars)
mtcars
```

```
##           mpg  cyl  disp  hp drat   wt  qsec vs  am gear carb
## Mazda RX4      21.0    6 160.0 110 3.90 2.620 16.46 0   1    4    4
## Mazda RX4 Wag  21.0    6 160.0 110 3.90 2.875 17.02 0   1    4    4
## Datsun 710     22.8    4 108.0  93 3.85 2.320 18.61 1   1    4    1
## Hornet 4 Drive  21.4    6 258.0 110 3.08 3.215 19.44 1   0    3    1
## Hornet Sportabout 18.7    8 360.0 175 3.15 3.440 17.02 0   0    3    2
## Valiant        18.1    6 225.0 105 2.76 3.460 20.22 1   0    3    1
## Duster 360     14.3    8 360.0 245 3.21 3.570 15.84 0   0    3    4
## Merc 240D      24.4    4 146.7  62 3.69 3.190 20.00 1   0    4    2
## Merc 230       22.8    4 140.8  95 3.92 3.150 22.90 1   0    4    2
## Merc 280       19.2    6 167.6 123 3.92 3.440 18.30 1   0    4    4
## Merc 280C      17.8    6 167.6 123 3.92 3.440 18.90 1   0    4    4
## Merc 450SE     16.4    8 275.8 180 3.07 4.070 17.40 0   0    3    3
## Merc 450SL     17.3    8 275.8 180 3.07 3.730 17.60 0   0    3    3
## Merc 450SLC    15.2    8 275.8 180 3.07 3.780 18.00 0   0    3    3
## Cadillac Fleetwood 10.4    8 472.0 205 2.93 5.250 17.98 0   0    3    4
## Lincoln Continental 10.4    8 460.0 215 3.00 5.424 17.82 0   0    3    4
## Chrysler Imperial 14.7    8 440.0 230 3.23 5.345 17.42 0   0    3    4
```

## Fiat 128	32.4	4	78.7	66	4.08	2.200	19.47	1	1	4	1
## Honda Civic	30.4	4	75.7	52	4.93	1.615	18.52	1	1	4	2
## Toyota Corolla	33.9	4	71.1	65	4.22	1.835	19.90	1	1	4	1
## Toyota Corona	21.5	4	120.1	97	3.70	2.465	20.01	1	0	3	1
## Dodge Challenger	15.5	8	318.0	150	2.76	3.520	16.87	0	0	3	2
## AMC Javelin	15.2	8	304.0	150	3.15	3.435	17.30	0	0	3	2
## Camaro Z28	13.3	8	350.0	245	3.73	3.840	15.41	0	0	3	4
## Pontiac Firebird	19.2	8	400.0	175	3.08	3.845	17.05	0	0	3	2
## Fiat X1-9	27.3	4	79.0	66	4.08	1.935	18.90	1	1	4	1
## Porsche 914-2	26.0	4	120.3	91	4.43	2.140	16.70	0	1	5	2
## Lotus Europa	30.4	4	95.1	113	3.77	1.513	16.90	1	1	5	2
## Ford Pantera L	15.8	8	351.0	264	4.22	3.170	14.50	0	1	5	4
## Ferrari Dino	19.7	6	145.0	175	3.62	2.770	15.50	0	1	5	6
## Maserati Bora	15.0	8	301.0	335	3.54	3.570	14.60	0	1	5	8
## Volvo 142E	21.4	4	121.0	109	4.11	2.780	18.60	1	1	4	2

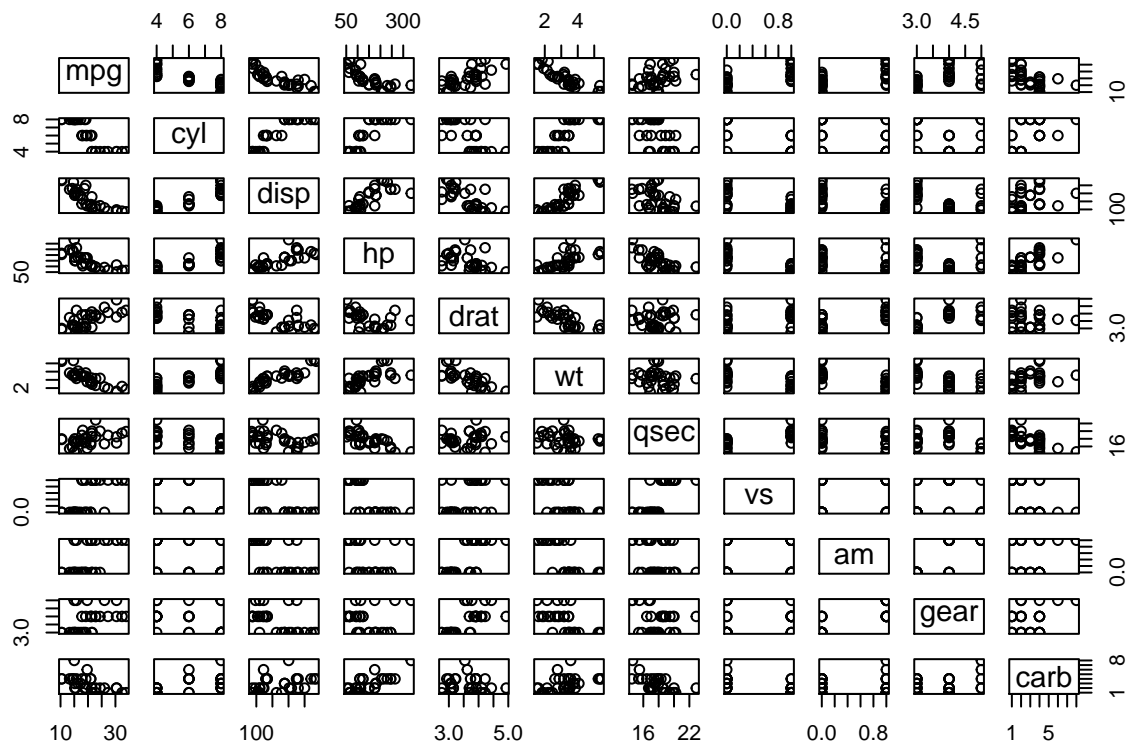
1.0.1 구분 추가 단축키

1.0.2 - Ctrl + Alt + i

2 mtcars 시각화

- using mtcars's factors, make a plot graph.

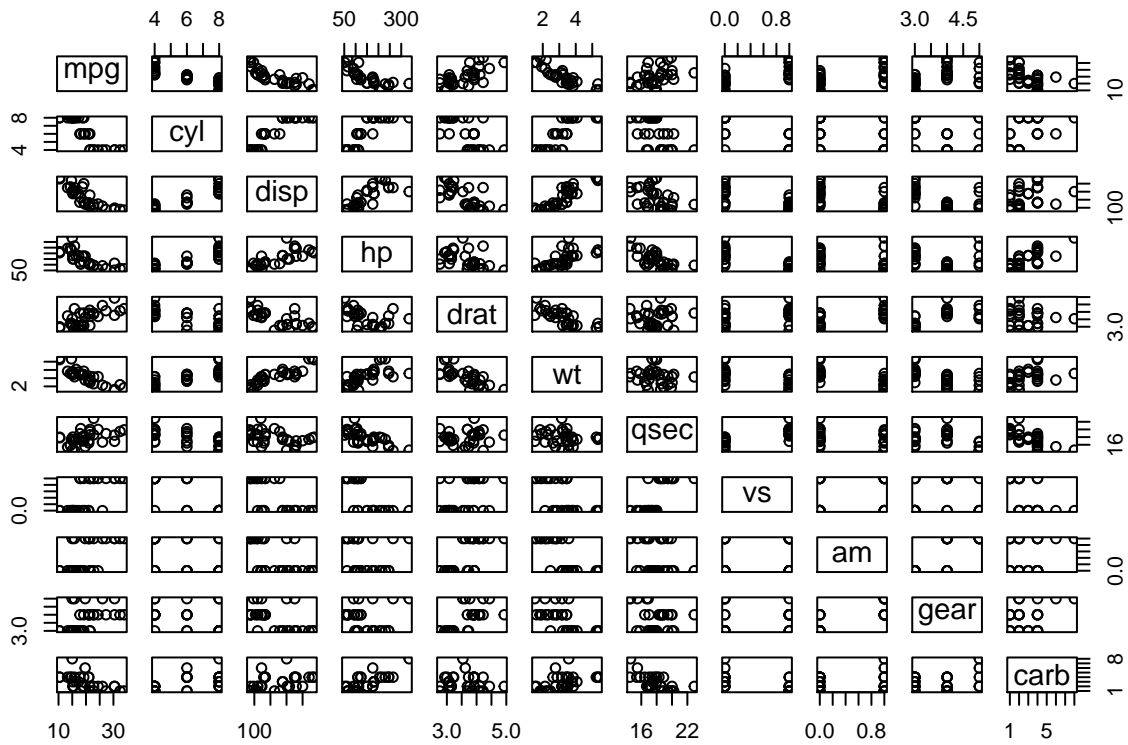
```
plot(mtcars)
```



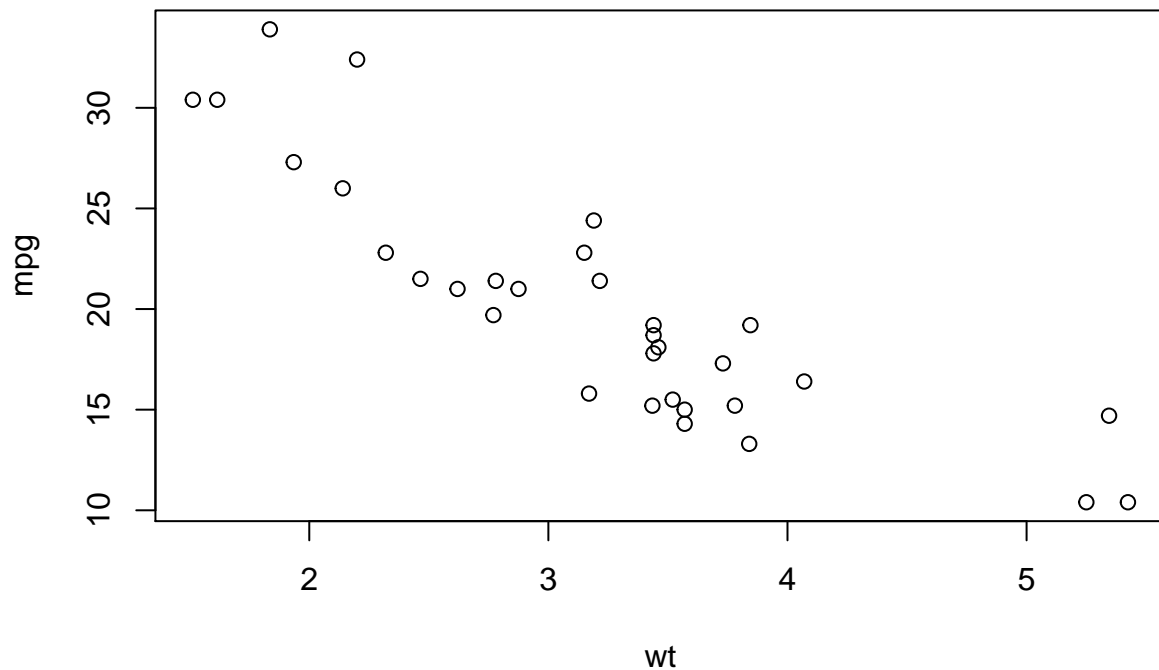
3 차량무게에 따른 연비

3.1 산점도 매트릭스와 차량무게 - 연비간 산점도 2개 그래프 작성

```
plot(mtcars)
```



```
plot(mpg ~ wt, mtcars)
```



3.2 내부 구조 파악

3.2.1 utils패키지와 str() 함수이용

```
str(mtcars)
```

```
## 'data.frame':  32 obs. of  11 variables:
## $ mpg : num  21 21 22.8 21.4 18.7 18.1 14.3 24.4 22.8 19.2 ...
## $ cyl : num   6  6  4  6  8  6  8  4  4  6 ...
## $ disp: num  160 160 108 258 360 ...
## $ hp  : num  110 110  93 110 175 105 245  62  95 123 ...
## $ drat: num   3.9 3.9 3.85 3.08 3.15 2.76 3.21 3.69 3.92 3.92 ...
## $ wt  : num   2.62 2.88 2.32 3.21 3.44 ...
## $ qsec: num   16.5 17 18.6 19.4 17 ...
## $ vs  : num    0  0  1  1  0  1  0  1  1  1 ...
## $ am  : num    1  1  1  0  0  0  0  0  0  0 ...
## $ gear: num    4  4  4  3  3  3  3  4  4  4 ...
## $ carb: num    4  4  1  1  2  1  4  2  2  4 ...
```

3.2.2