

Reading Data

Code ▾

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```
# reading from a dat file
lecturerData <- read.delim('/home/atrides/Desktop/Applied-Statistics-with-R-master/statistics_with_R/03_R_Environment/Data_Files/Lecturer Data.dat', header=TRUE)
head(lecturerData)
```

name <chr>	birth_date <chr>	job <int>	friends <int>	alcohol <int>	income <int>	neurotic <int>
1 Ben	7/3/1977	1	5	10	20000	10
2 Martin	5/24/1969	1	2	15	40000	17
3 Andy	6/21/1973	1	0	20	35000	14
4 Paul	7/16/1970	1	4	5	22000	13
5 Graham	10/10/1949	1	1	30	50000	21
6 Carina	11/5/1983	2	10	25	5000	7
6 rows						

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```
?gl
job<- gl(2,5,length=2*5,labels=c('lecturers','students'))
job
```

```
[1] lecturers lecturers lecturers lecturers lecturers students students s
tudents students students
Levels: lecturers students
```

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```
# refactoring

job <- factor(job, levels=levels(job)[c(2,1)])
job
```

```
[1] lecturers lecturers lecturers lecturers lecturers students students s
tudents students students
Levels: students lecturers
```

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```
# saving Data
write.csv(lecturerData, 'df.csv')

# manipulating data
newData <- lecturerData[, c('friends','income','neurotic')]
head(newData)
```

	friends <int>	income <int>	neurotic <int>
1	5	20000	10
2	2	40000	17
3	0	35000	14
4	4	22000	13
5	1	50000	21
6	10	5000	7
6 rows			

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```
# lecturer only
lecturer <- lecturerData[job=='lecturers',]
lecturer
```

name <chr>	birth_date <chr>	job <int>	friends <int>	alcohol <int>	income <int>	neurotic <int>
1 Ben	7/3/1977	1	5	10	20000	10
2 Martin	5/24/1969	1	2	15	40000	17
3 Andy	6/21/1973	1	0	20	35000	14
4 Paul	7/16/1970	1	4	5	22000	13
5 Graham	10/10/1949	1	1	30	50000	21
5 rows						

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```
# personality variables but only for people who drink more than 1
0 units of alcohol
alcoholPersonality <- lecturerData[lecturerData$alcohol>10, c("friends", "al
cohol", "neurotic")]
alcoholPersonality
```

	friends <int>	alcohol <int>	neurotic <int>
2	2	15	17
3	0	20	14
5	1	30	21
6	10	25	7
7	12	20	13
8	15	16	9
9	12	17	14
10	17	18	13
8 rows			

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```
# Dataframe to matrix
alcoholPersonalityMatrix <- as.matrix(alcoholPersonality)
alcoholPersonalityMatrix
```

```
      friends alcohol neurotic
2         2      15      17
3         0      20      14
5         1      30      21
6        10      25       7
7        12      20      13
8        15      16       9
9        12      17      14
10       17      18      13
```