

```
library(data.table)
library(ggplot2)
library(plyr)
HireArt_Data_Analyst_Exercise_10_12_17_ <- read_excel("Downloads/HireArt - Data
Analyst Exercise 10.12.17\357\274\210\345\211\257\346\234\254\357\274\211.xlsx")
```

```
##### Read and format the data
```

```
client_data <- as.data.table(HireArt_Data_Analyst_Exercise_10_12_17_)
```

```
client_data <- client_data[ , year:= year(`Date of Contact`)]
```

```
client_data <- client_data[ , month:= month(`Date of Contact`)]
```

```
####count monthly contacts
```

```
client_month <- as.data.table(count(client_data,"month"))
```

```
client_month <- client_month[,percentage:= freq/sum(freq)]
```

```
####visualize the results
```

```
ggplot(data=client_month, aes(x=month,y=percentage))+geom_line()+labs(title="Client
contacts, by month")
```

```
client_data <- client_data[,month_year := format(as.Date(`Date of Contact`),"%Y-%m")]
```

