Reshaping Data

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```
data = read.delim('/home/atrides/Desktop/Applied-Statistics-with-R-master/st
atistics_with_R/03_R_Enviroment/Data_Files/Honeymoon Period.dat', header=TRU
E)

head(data)
```

Per…	Satisfaction_Base	Satisfaction_6_Months	Satisfaction_12_Months
<int>	<int>	<int>	<int>
1 1	6	6	5
2 2	7	7	8
3 3	4	6	2
4 4	6	9	4
5 5	6	7	6
6 6	5	10	4

6 rows | 1-6 of 6 columns

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```
names(data)
```

```
[1] "Person"               "Satisfaction_Base"     "Satisfaction_6_Month
s"   "Satisfaction_12_Months" "Satisfaction_18_Months"
[6] "Gender"
```

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```
# converting wide df to long df
satisfactionStacked<-stack(data,select=c("Satisfaction_Base","Satisfaction_6
_Months","Satisfaction_12_Months","Satisfaction_18_Months"))

head(satisfactionStacked)
```

	values	ind
	<int>	<fctr>
1	6	Satisfaction_Base

	values <int>	ind <fctr>
2	7	Satisfaction_Base
3	4	Satisfaction_Base
4	6	Satisfaction_Base
5	6	Satisfaction_Base
6	5	Satisfaction_Base

6 rows

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```
# converting long to wide
satisfactionUnstacked <- unstack(satisfactionStacked, values~ind)
head(satisfactionUnstacked)
```

	Satisfaction_Base <int>	Satisfaction_6_Months <int>	Satisfaction_12_Months <int>	Satis
1	6	6	5	
2	7	7	8	
3	4	6	2	
4	6	9	4	
5	6	7	6	
6	5	10	4	

6 rows

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```
# install.packages("reshape")
library(reshape)

restructuredData<-melt(data, id = c("Person", "Gender"), measured = c("Satis
faction_Base", "Satisfaction_6_Months",
                                                                "Satis
faction_12_Months", "Satisfaction_18_Months"))

head(restructuredData)
```

	Person	Gender	variable	value
	<int>	<int>	<fctr>	<int>
1	1	0	Satisfaction_Base	6
2	2	1	Satisfaction_Base	7
3	3	1	Satisfaction_Base	4
4	4	0	Satisfaction_Base	6
5	5	0	Satisfaction_Base	6
6	6	1	Satisfaction_Base	5

6 rows

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```
wideData<-cast(restructuredData, Person + Gender ~ variable, value = "valu
e")
head(wideData)
```

	Per…	Gen…	Satisfaction_Base	Satisfaction_6_Months	Satisfaction_12_M
	<int>	<int>	<int>	<int>	
1	1	0	6	6	
2	2	1	7	7	
3	3	1	4	6	
4	4	0	6	9	
5	5	0	6	7	
6	6	1	5	10	

6 rows | 1-6 of 6 columns