

# Dcast

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3/29/2017

## Read in an example dataset

```
library(faraway)
myhsb <- hsb[c("gender", "race", "prog")]
aa <- as.data.frame(xtabs( ~ race + gender + prog , myhsb))
aa # this is the same format as the "afterlife" dataset
```

##		race	gender	prog	Freq
## 1	african-amer	female	academic	6	
## 2	asian	female	academic	4	
## 3	hispanic	female	academic	5	
## 4	white	female	academic	43	
## 5	african-amer	male	academic	3	
## 6	asian	male	academic	2	
## 7	hispanic	male	academic	6	
## 8	white	male	academic	36	
## 9	african-amer	female	general	3	
## 10	asian	female	general	3	
## 11	hispanic	female	general	3	
## 12	white	female	general	15	
## 13	african-amer	male	general	2	
## 14	asian	male	general	1	
## 15	hispanic	male	general	1	
## 16	white	male	general	17	
## 17	african-amer	female	vocation	4	
## 18	asian	female	vocation	1	
## 19	hispanic	female	vocation	3	
## 20	white	female	vocation	19	
## 21	african-amer	male	vocation	2	
## 22	asian	male	vocation	0	
## 23	hispanic	male	vocation	6	
## 24	white	male	vocation	15	

## Reshape the data

```
library(reshape2)
pr <- dcast(aa, race + gender ~ prog, value.var = "Freq")
pr
```

##		race	gender	academic	general	vocation
## 1	african-amer	female	6	3	4	
## 2	african-amer	male	3	2	2	
## 3	asian	female	4	3	1	
## 4	asian	male	2	1	0	
## 5	hispanic	female	5	3	3	

## 6	hispanic	male	6	1	6
## 7	white	female	43	15	19
## 8	white	male	36	17	15