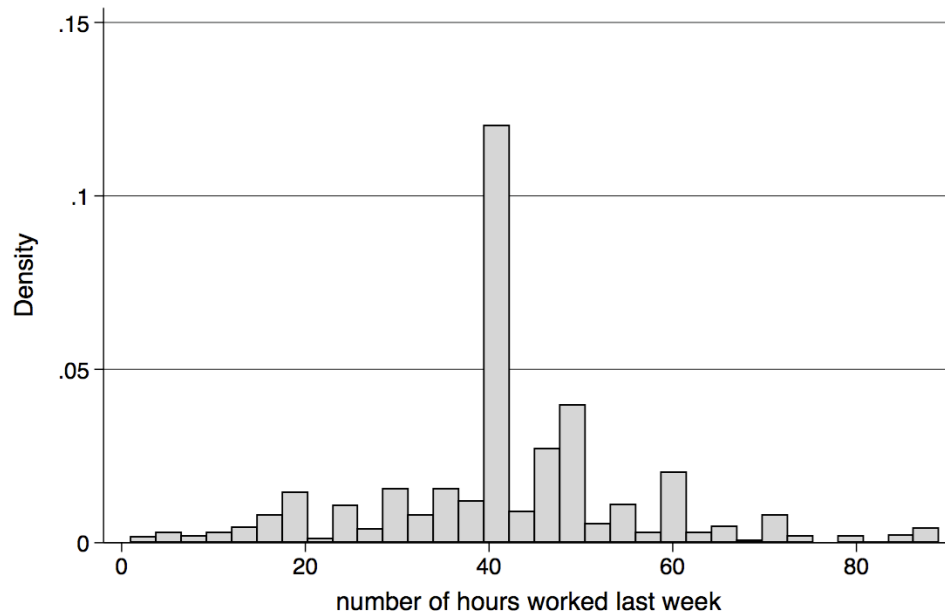


Unit 6 – STATA for Graphs Homework

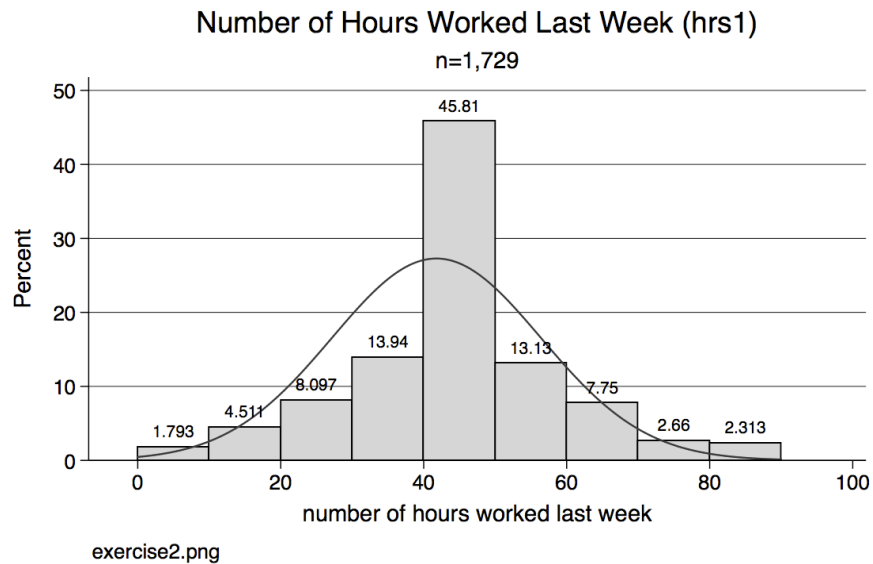
SOLUTIONS

```
. *
. **** Preliminaries
. set more off
. use "/Users/cbigelow/Desktop/descriptive_gss.dta", clear
. set scheme lean2

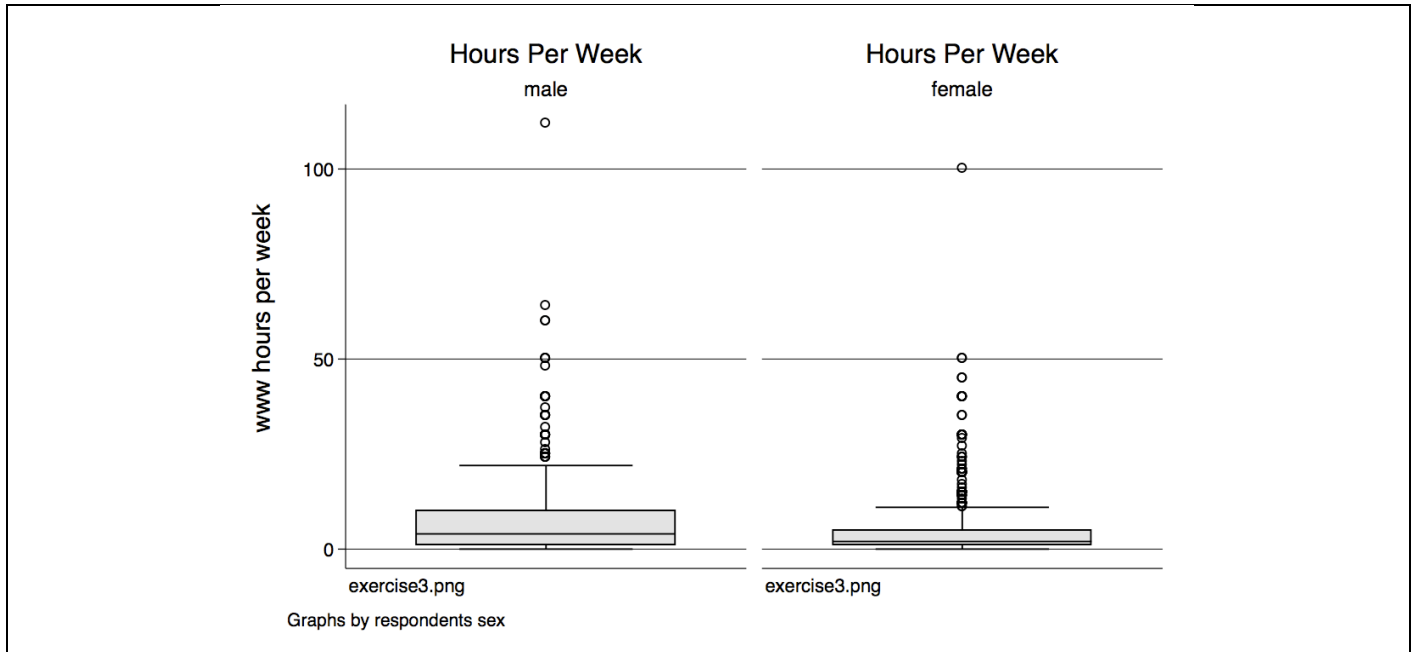
. *
. **** 1.) Simple histogram: hrs1
. histogram hrs1
(bin=32, start=1, width=2.75)
```



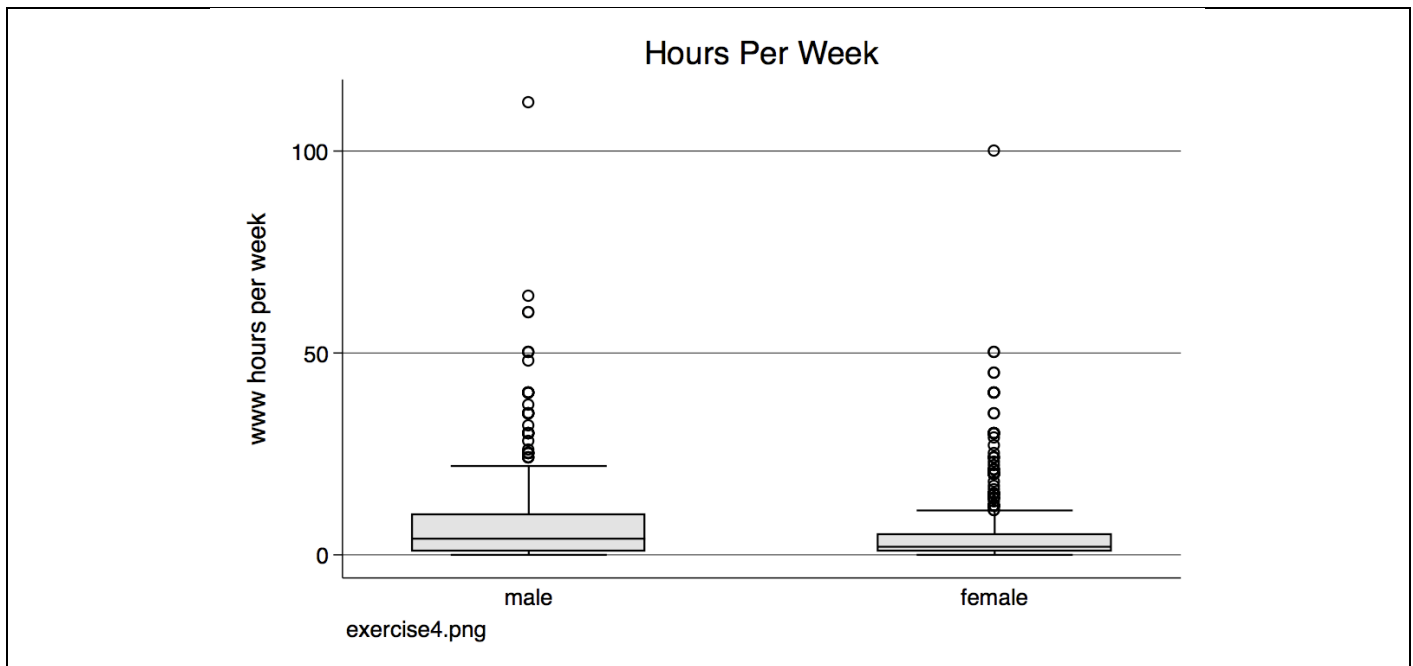
```
. *
. **** 2.) Histogram with overlay normal & aesthetics: hrs1
. histogram hrs1, normal percent addlabels start(0) width(10) title("Number of Hours
Worked Last Week (hrs1)") subtitle("n=1,729") caption("exercise2.png")
(bin=9, start=0, width=10)
```



```
. *
. **** 3.) Boxplot summary of wwwhr separately by sex using option by( )
. sort sex
. graph box wwwhr, by(sex) title("Hours Per Week") caption("exercise3.png") legend(off)
```



```
. *
. **** 4.) Boxplot summary of wwvhr separately by sex using option over
. sort sex
. graph box wwvhr, over(sex) title("Hours Per Week") caption("exercise4.png")
```

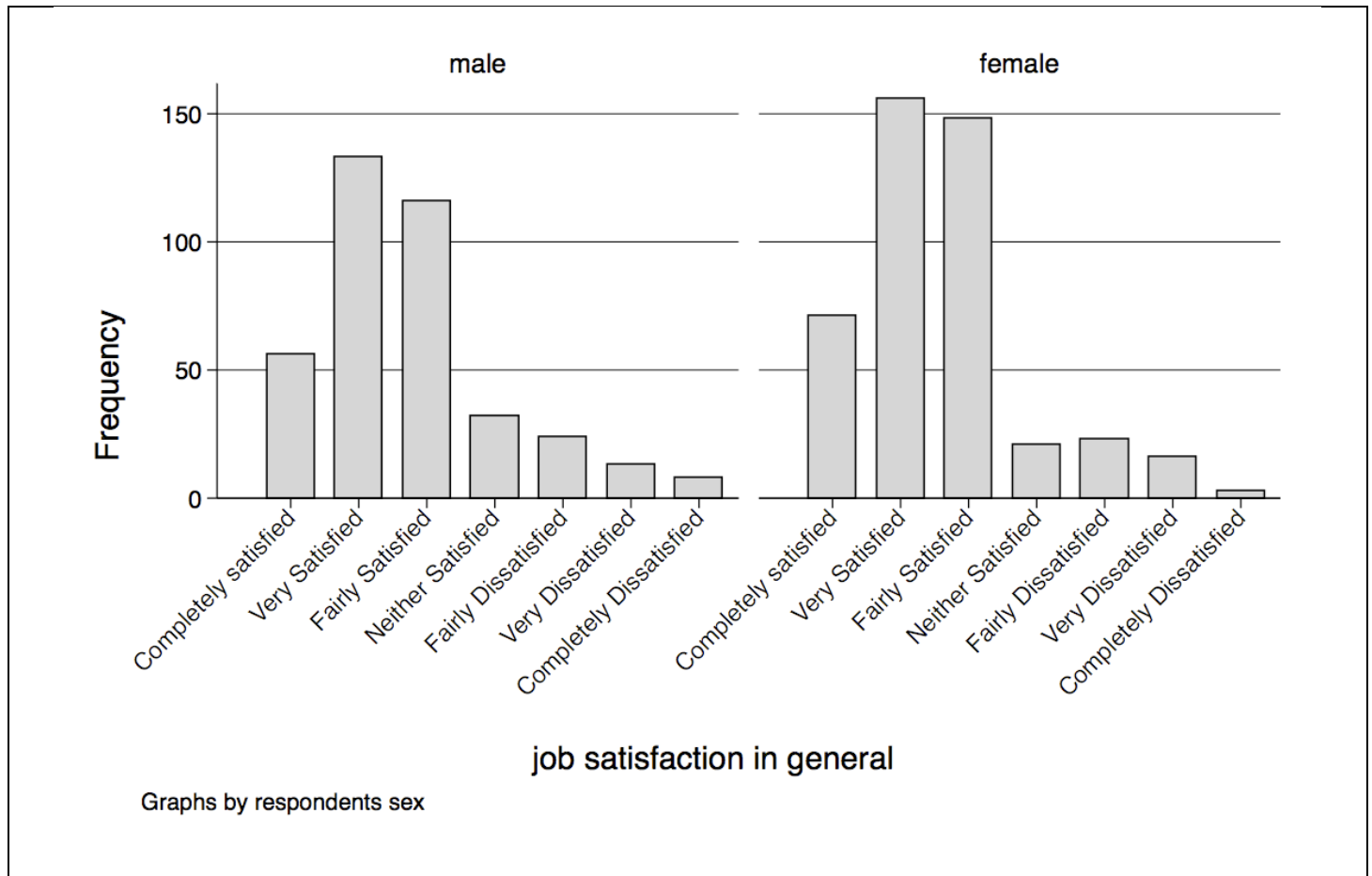


```
. *
. **** 5.) histogram discrete to produce bar chart of satjob7 separately by sex.
. sort sex
. numlabel, add
. tab2 satjob7 sex, missing
```

-> tabulation of satjob7 by sex

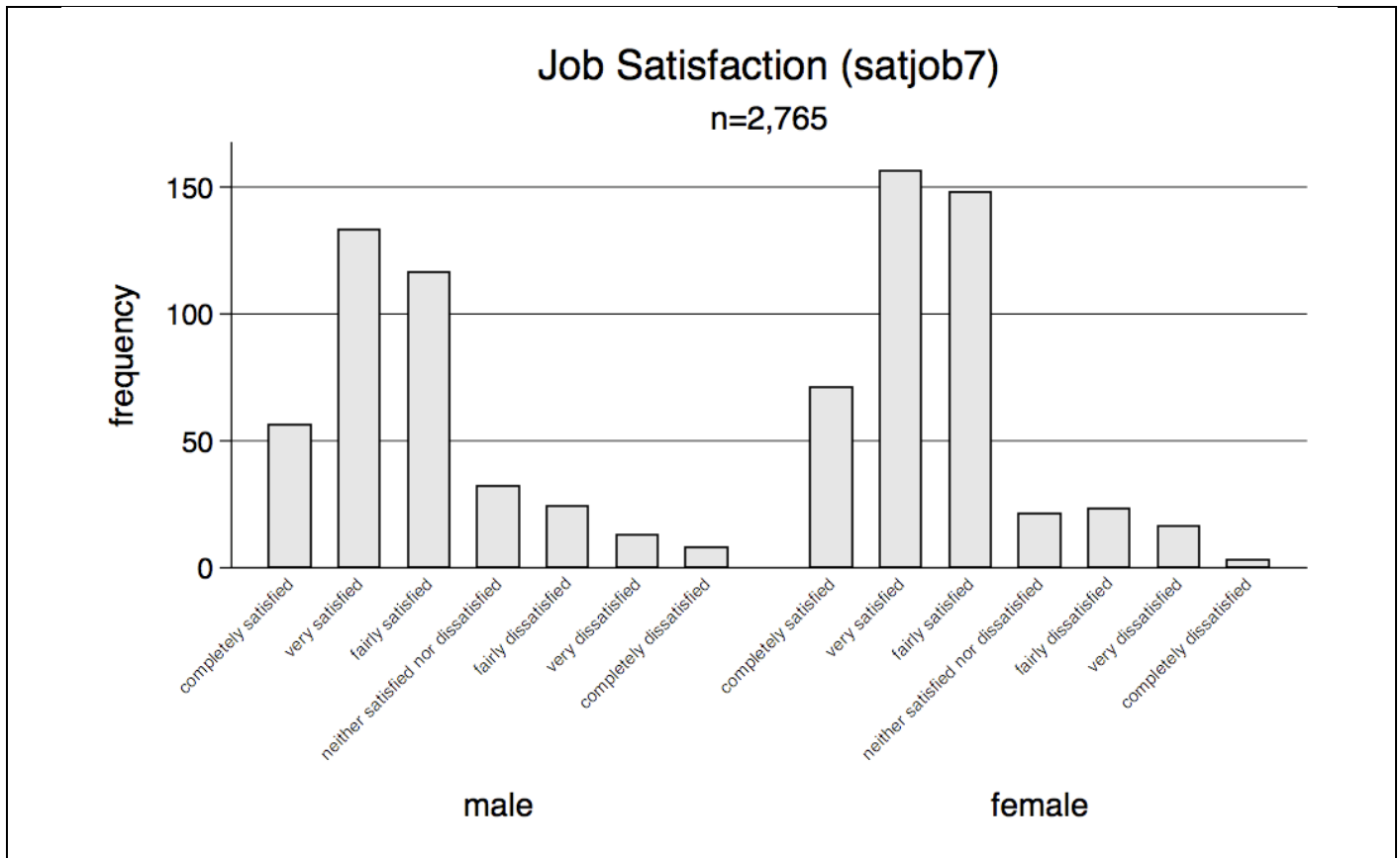
job satisfaction in general	respondents sex		Total
	1. male	2. female	
1. completely satisfi	56	71	127
2. very satisfied	133	156	289
3. fairly satisfied	116	148	264
4. neither satisfied	32	21	53
5. fairly dissatisfie	24	23	47
6. very dissatisfied	13	16	29
7. completely dissati	8	3	11
.	846	1,099	1,945
Total	1,228	1,537	2,765

```
. numlabel, remove
. histogram satjob7, discrete by(sex) frequency gap(30) xlabel(1 "Completely satisfied"
2 "Very Satisfied" 3 "Fairly Satisfied" 4 "Neither Satisfied" 5 "Fairly Dissatisfied" 6
"Very Dissatisfied" 7 "Completely Dissatisfied", angle(45))
```



Tip! I used the graph editor to modify the angle of the job satisfaction code labels.

```
. *
. **** 6.) catplot recast(bar) to produce bar chart of satjob7 separately by sex
. catplot satjob sex, recast(bar) title("Job Satisfaction (satjob7)")
. subtitle("n=2,765")
```



Again - I used the graph editor to modify the angle of the job satisfaction code labels.

```
. *
. **** 6.) EXTRA SOLUTION - catplot to produce bar chart of satjob7 separately by sex
. set scheme s2color
. sort sex
. catplot satjob, over(sex) blabel(bar, position(outside)) title("Job Satisfaction, by
Gender") caption("exercise6.png",size(vsmall))
```

