

17.871
Spring 2003
STATA demonstration handout
February 13, 2003

Files, etc. we will return to

I. Athena locker with data: `/mit/17.871/Examples`

A. To access the first time: (at the Athena prompt)

```
attach 17.871
cd /mit/17.871/Examples
```

B. To access after you've typed the "attach" command:

```
cd /mit/17.871/Examples
```

II. Within the Athena locker with the examples are the following files that are used in lecture:

File	Description
<code>black_officials.dat</code>	Raw data file. The data are ordered as follows: state name, % black elected officials, % population African-American, dummy variable for southern state. The data are "free form"
<code>black_officials.do</code>	STATA "do" file that records the commands necessary to set up <code>black_officials.dat</code> for analysis
<code>black_officials.dta</code>	STATA "data" file that saves data in binary form for easy re-use
<code>black_officials_no_space.dat</code>	Raw data file. The data are ordered the same as in <code>black_officials.dat</code> , except they are in "fixed format". The numbers in parentheses indicate how many columns each variable takes up: state name (2), % black elected officials (4), % population African-American (4), dummy variable for southern state (1)

III. STATA commands I will be typing

1. `log using black_officials.txt`
2. `infile str2 state beo bpop south using /mit/17.871/Examples/black_officials.dat`
3. `list`
4. `mvdecode beo bpop, mv(-9)`
5. `graph beo; graph bpop; graph bpop, bin(20)`
6. `graph beo bpop, box`
7. `graph beo bpop`
8. `graph beo bpop, xscale(0,40) yscale(0,40)`
9. `graph beo bpop, s([state])`
10. `graph bpop beo bpop, c(1.) s(i0) sort`
11. `graph bpop beo bpop, c(1.) s(i[south]) sort`
12. `sort south; graph beo, box by(south)`
13. `gen diff=beo-bpop`
14. `gen diff_pct=diff/bpop`
15. `graph diff, box by(south)`
16. `graph diff_pct, box by(south)`
17. `ttest diff, by(south)`
18. `ttest diff_pct, by(south)`
19. `reg beo bpop; predict py; graph beo py bpop, s(0i) c(.1) sort`
20. `graph beo bpop py bpop, s(0ii) c(.11) sort xlabel ylabel`
21. `save /mit/17.801/Examples/black_officials`
22. `use /mit/17.801/Examples/runoffs; list; list; clear`
23. `use /mit/17.801/Examples/black_officials`
24. `sort state`
25. `merge state using runoffs`

26. `use /mit/17.801/Examples/idaho_example`
`collapse (sum) sen_rep sen_dem, by(dist)`