Quantitative Methods in Political Science
Recitation

Mai Nguyen

New York University

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Review from Last Week's Lab Session

The Process:

- Step One: Theory

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- Step Two: Generate Hypotheses

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- Step Three: Gather Data

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- Step One: Theory
- Step Two: Generate Hypotheses
- Step Three: Gather Data
- Step Four: Analyze the Data
  - STATA!!

Basics

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Stata

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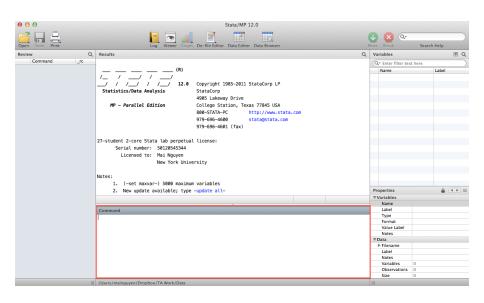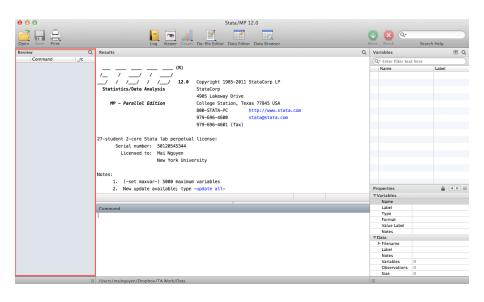
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Review Window

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- You can use a variety of mathematical functions:
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    - *display* 8^4
    - *display* ln(7891)
- Additionally, many Stata commands can be shortened. Instead of typing out *display* everytime, you can type *di* 7*6

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  - File → Import → Excel spreadsheet (*.xls;*.xlsx)
  - Click "Browse" and locate the class excel file
  - Select the "Import first row as variable names" option
  - Click "OK"; notice the variables now appear in the variables window

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    - This will sort your data in descending order by income per capita

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  - Type *gsort -gdppc*
  - Type *list name gdppc*
- I can take it one step further and only look at the top ten countries
  - Type *list name gdppc in 1/10*
  - Cool, it gives me the top ten countries with the highest GDP
- Now it's your turn. What commands would I need to input to get a list of the ten countries with the highest rate of economic growth?

```
. gsort -growth

. list name growth in 1/10
```

	name	growth
1.	Rwanda	52.14
2.	Afghanistan	19.42
3.	Malawi	18.2
4.	Bosnia-Herzegovina	16.97
5.	Albania	11.96
6.	Lesotho	11.59
7.	Equatorial Guinea	11.38
8.	Ireland	9.45
9.	Uganda	8.93
10.	Thailand	7.86

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Getting something out of the data:

- Let's now work with the tabulate command: type *tabulate* **variablename(s)**

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Getting something out of the data:

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  - Example: *tabulate hinst*
  - Again, you can shorten the command and instead type *tab hinst*; it will give you the same result
- Looking at the tabulate output can give you a sense of how your data are distributed.

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  - Example: *tab hinst britcol*
- What does this give you?
- You can do some simple hypothesis testing using the tabulate command

Now it's your turn again:

- Research question: Does being an oil producer contribute to a country's regime type (democracy or autocracy)?

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- Your task:
  - Find the relevant variables
  - Produce the appropriate cross tab
  - Answer the research question

```
. tab regime oil
```

Regime	Oil producing country		
type	Not oil-p	Oil-produ	Total
Democracy	105	3	108
Autocracy	68	14	82
Total	173	17	190

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- You can make things even more interesting by using options!

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