

# **INTRO TO EXCEL GRAPHICS**

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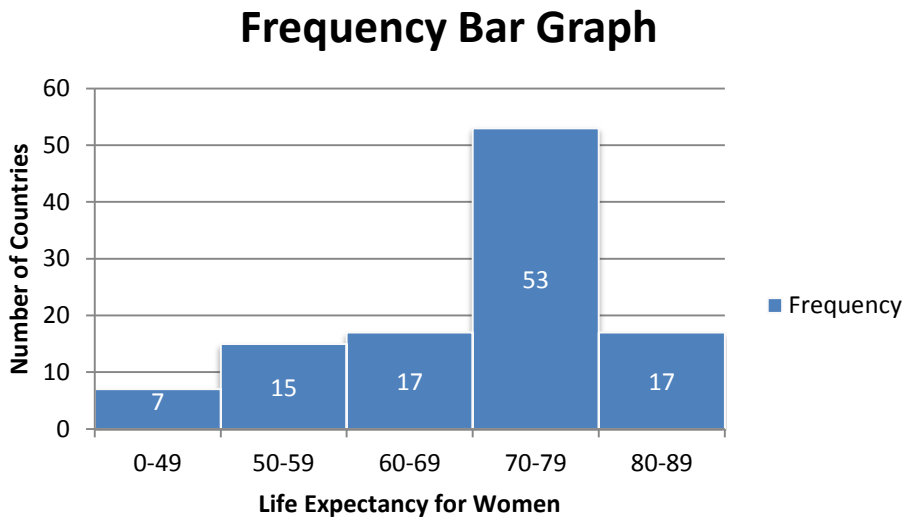
CENTER FOR SOCIAL SCIENCE COMPUTATION AND  
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# AGENDA

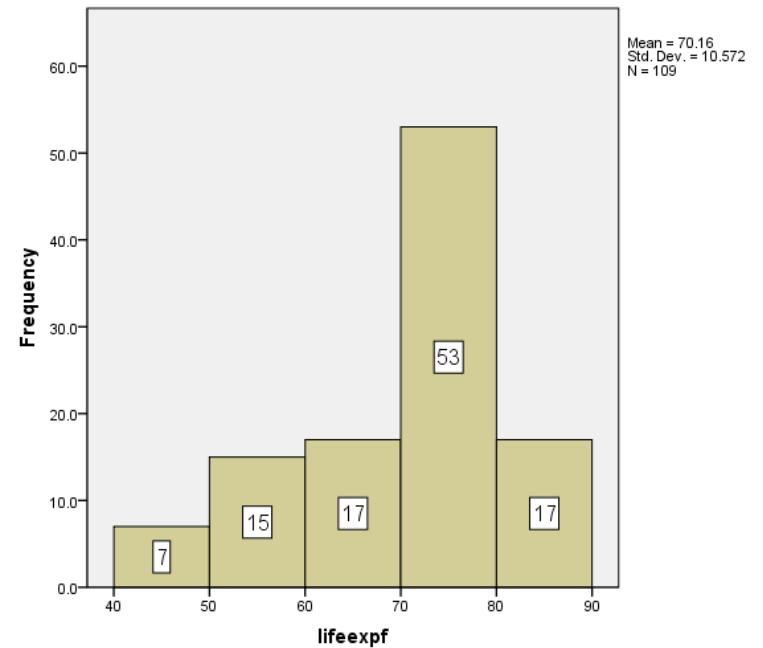
- Graphing in Excel 2010 for PC (vs. other versions)
- Sample data
- Excel tools:
  - Freezing panes, sorting data, compiling frequencies
  - Formulas (especially COUNTIF)
  - Bar graphs, Pie charts, Scatter plots & “regression” lines
- Installing and using the Data Analysis Add-In:
  - Descriptives
  - Regression example
  - Histogram example
- Exporting final graphs and charts
  - Exporting to Word
  - Printing
- Additional resources

# WHY GRAPH IN EXCEL?

- **Pros:**
  - Better graphics
  - More flexible options for look-and-feel, legends, etc.



- **Cons:**
  - Excel is very particular
  - Using formulas
  - Limited statistical tools (Data Analysis Add-In)



# SAMPLE DATA: WORLD 95

- Unit of analysis: Country (109 total observations)
- Contains information (variables) on:
  - Population (continuous)
  - Religion (categorical - nominal)
  - Life expectancy (continuous): for women and men
  - Literacy (continuous)
  - Population increase (continuous)

# EXCEL TOOLS

- Freezing panes, sorting data, compiling frequencies
- Formulas (especially COUNTIF)
- Bar graphs, Pie charts, Scatter plots & “regression” lines
- Data Analysis Add-In (free for Excel 2010 PC only)
  - Install
  - Descriptives
  - Regression example
  - Histogram
- **Tips for what NOT to do in Excel:**
  - Graph only the data (without the labels)
  - Insert legend elements & type labels in directly
  - Count frequencies by hand

# EXPORTING EXCEL GRAPHS

- Exporting final graphs and charts
  - Exporting to Word
  - Printing

# ADDITIONAL RESOURCES

- **CSSCR website – handouts and videos:**
  - <http://julius.csscr.washington.edu/software.htm>
- **Pivot Tables:**
  - <http://youtu.be/I0a0dCgFA5g>
- **Microsoft’s Excel online how-to:**
  - <http://office.microsoft.com/en-us/excel-help/excel-help-and-how-to-FX101814052.aspx>
- **Data Pig video tutorials (may be older Excel versions):**
  - <http://www.datapigtechnologies.com/ExcelMain.htm>
- **Data Analysis Add-In for Excel 2010 (PC only):**
  - <http://www.addictivetips.com/windows-tips/excel-2010-data-analysis/>
- **Search and you shall find!**
  - University resources and YouTube videos