
PUBPOL 2130 / INFO 3130

Exam Review

February 11, 2025
Jennah Gosciak

General Announcements

- Exam on Thursday (*in-class*)
 - Makeup class tomorrow on Zoom @4pm
 - Questions graded on scale from 0-4 (like homeworks)
 - Adding explanations and showing work can help
 - E.g., explain *why* your proposed code may work
 - There aren't necessarily right answers
 - Be familiar with material and ready to discuss it thoughtfully
 - 1-2 sentences **true/false**; 3-4 sentences **short answer**
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Agenda

- Follow-ups from lab
 - Practice finding new ACS variables
 - Practice problems
 - 5 minutes discuss in pairs
 - 10 minutes discuss as a class
 - Homework + office hours
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Week 3 Follow-Ups

- Projections

- Projecting the earth's sphere onto a flat map creates *distortions*



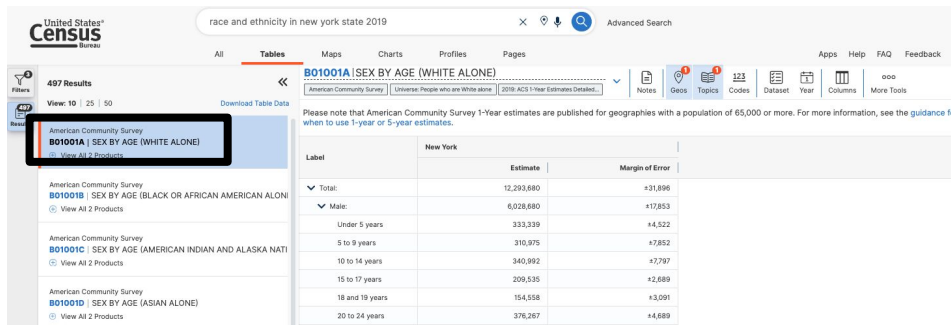
Week 3 Follow-Ups

- Projections
 - Projecting the earth's sphere onto a flat map creates *distortions*
 - Unprojected *datum* (will still be in degrees):
 - EPSG 4326/WGS 84
 - EPSG:4269/NAD 83 (common in the Census)
 - May create issues when plotting!
 - *Projected* coordinate system
 - U.S. National Atlas Equal Area projection (United States)
 - Universal Transverse Mercator (regional)
 - State plane coordinate system (regional in United States)
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**“E” stands
for
estimate**

Variable Type	Title	Related Products	Meaning
E	Estimate	Summary Files, Subject Tables, Data Profiles, Comparison Profiles	A numeric representation of the estimate.
EA	Estimate Annotation	Subject Tables, Comparison Profiles	A character representation of the estimate. If an Estimate Annotation exists, use this value in place of the Estimate. (See Example #1 in Estimate and Annotation Values)
M	Margin of Error	Summary Files, Subject Tables, Data Profiles	A numeric representation of the margin of error.
MA	Margin of Error Annotation	Subject Tables Only	A character representation of the margin of error. If a Margin of Error Annotation exists, use this value in place of the Margin of Error.
PE	Percent Estimate	Data Profiles Only	An estimate representing a percent of the total.
PM	Percent Margin of Error	Data Profiles Only	The Margin of Error for the corresponding Percent Estimate (PE) variable
SS	Statistical Significance	Comparison Profiles Only	<p>Returns "w" or "c" representing the Statistical Significance for the corresponding estimate (E) variable. (See Example #2 in Estimate and Annotation Values)</p> <p>An "w" indicates that the estimate is significantly different (at a 90% confidence level) than the estimate from the most current year. A "c" indicates the estimates for that year and the current year are both controlled; a statistical test is not appropriate.</p>

- Census API [documentation](#)
- Census [table shells](#) and our [Google sheet](#)
- <https://data.census.gov/>



Student examples of possible correct answers

- `df["Clinton_share"] = df["Clinton"]/(df["Clinton"] + df["Trump"])`
 - `arr = ['Cornell', 'campus', 'math', 'public policy', 'info', 'Ithaca']`
 - `returns: ['Cornell', 'campus', 'public policy', 'Ithaca']`
 - `df['B'].head(5).sum()`
 - `df.iloc[0:5, 1].sum()`
 - `df[df["B"]<60]["B"].sum()`
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