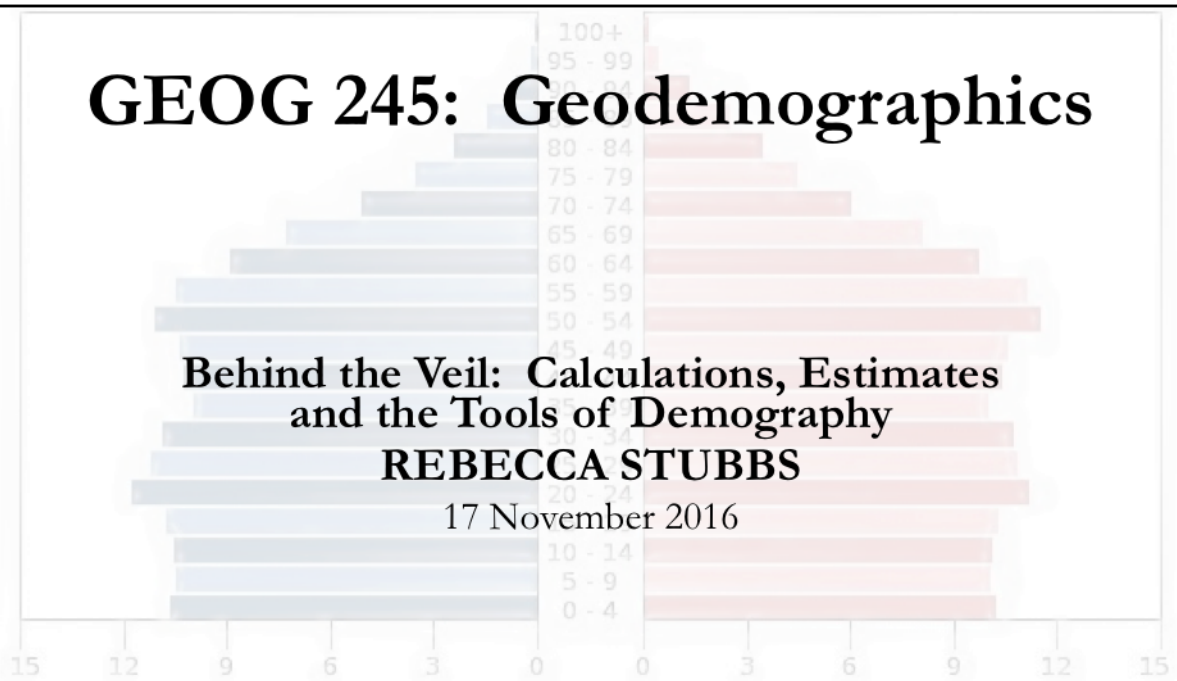


GEOG 245: Geodemographics

**Behind the Veil: Calculations, Estimates
and the Tools of Demography**

REBECCA STUBBS

17 November 2016



Announcements

- No sections, lecture, or office hours next week (Happy Thanksgiving!)
 - Watch Gran Torino
- Final exam on December 8th in class
- Assignment 3 due by midnight tonight

Next week, in lieu of lecture, please watch the film Gran Torino and come to class on 11/28 prepared to discuss the film. If you recall from the syllabus, your section participation grade is worth 10% of your class grade and since that is the only true discussion in section, it will be weighted heavily toward that grade. So please come prepared to participate!

If you feel uncomfortable watching Gran Torino (Possible trigger warnings: language: curse words, racial slurs; violence: gang violence and initiations, implied rape) please send me an email so that we can discuss an alternative.

Population Research Discovery Seminar

How Does Big Data Contribute to Improved Demographic Knowledge

***Patrick Gerland**, Chief of Mortality Section, Population Division, United Nations*

***Thomas LeGrand**, Department of Demography, University of Montreal*

***Adrian Raftery**, Department of Sociology & Department of Statistics, UW*

***Emilio Zagheni**, Department of Sociology & eSciences Institute, UW*

Join us for a provocative panel discussion among leading demographers about the opportunities and pitfalls of big data for improving population health knowledge.

Date: Friday, 11/18/16
Time: 12:30-1:30 pm, PST
Location: 121 Raitt Hall

Plan for Today

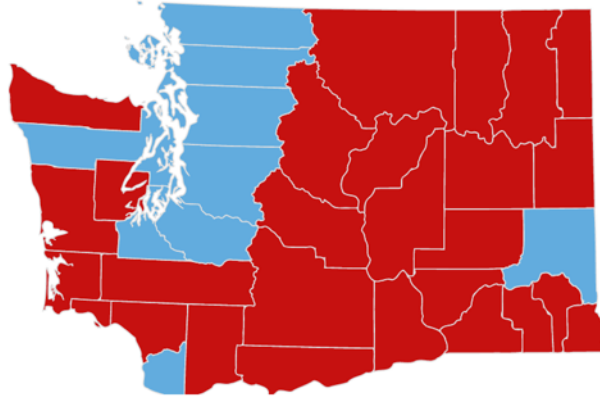
- A few more graphics about the election...
- Guest Lecture: Rebecca Stubs
- Sampling Activity

King County had a 75.52% turnout of registered voters!

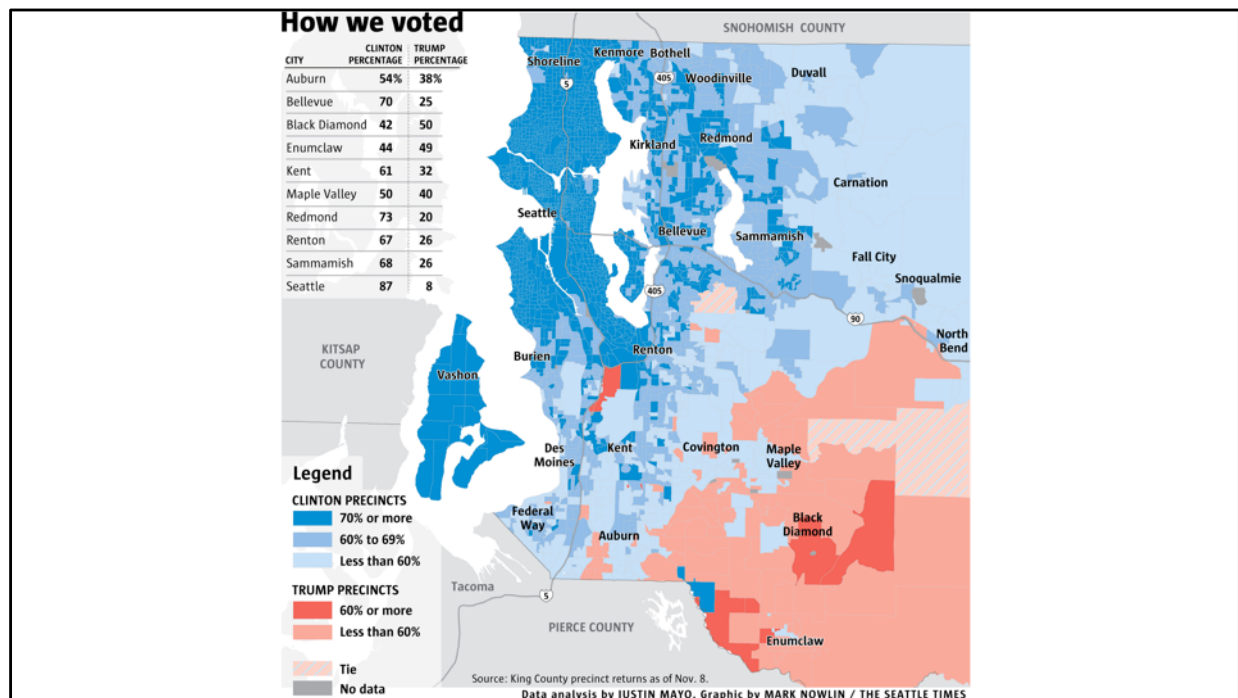
Significantly higher than the state (62.5%) and national average (58.1%)

President/Vice President

Hillary Clinton - D	1,647,074	54.4%
Donald J. Trump - R	1,155,538	38.2%
Gary Johnson - L	149,122	4.9%
Jill Stein - G	53,123	1.8%



From The Seattle Times.



From The Seattle Times

Not all votes have been tabulated yet, but so far, there are two precincts (areas of 5-10 blocks) with no trump voters at all (one in Wallingford). Seattle is one of the bluest cities (but both DC and Detroit are bluer).

Questions?

Plan for Today

- A few more graphics about the election...
- Guest Lecture: Rebecca Stubs
- Sampling Activity

Rebecca Stubs

- BA in Geography at the University of Colorado at Boulder
- Worked on the GIS team at National Renewable Energy labs doing spatial analysis and data visualization
- Completed a fellowship at the Institute of Health Metrics and Evaluation
- Is currently a researcher at IHME and a graduate student in geography at UW

Plan for Today

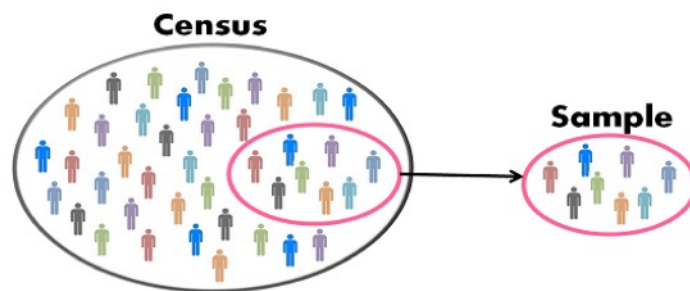
- A few more graphics about the election...
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A Quick Refresher:

- What is a sample?

A Quick Refresher:

- What is a sample?
 - A subsection of a population that is used to infer characteristics of the population



A Quick Refresher:

- What is a representative sample?

A Quick Refresher:

- What is a representative sample?
 - A subsection of a population that reflects the demographics of the entire population

So how do we know?

A Quick Refresher:

- What is a stratified sampling technique?

A Quick Refresher:

- What is a stratified sampling technique?
 - Also called stratification
 - The process of dividing members of a population into homogeneous, mutually exclusive subgroups before sampling

A Quick Refresher:

- What is a quota sampling technique?

A Quick Refresher:

- What is a quota sampling technique?
 - Deciding on the number of people you wish to sample in each given group and choosing the first people from that group you wish to sample

Why isn't a quota sample as scientifically sound as a stratified sample?

A Quick Refresher:

- What is weighting?

A Quick Refresher:

- What is weighting?
 - Counting survey responses differently by subgroup to adjust for likely biases