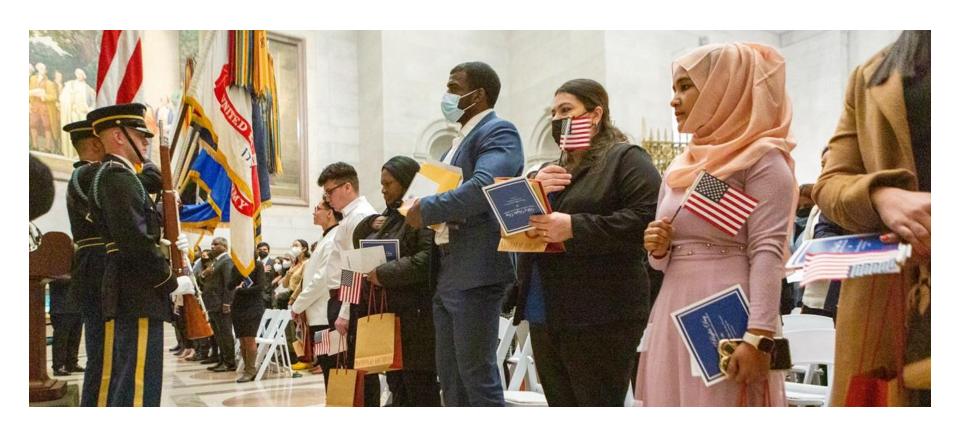
## Hands-On Activity: Online Tools for Analysis on IPUMS USA

Module 3: Using Data for Immigrants in the Gulf Region



### Step 1: Access the IPUMS USA Online Data Analysis System



 Navigate to the IPUMS USA Online Data Analysis System: https://usa.ipums.org/u sa/sda/



 This tool allows users to perform online analysis without downloading data.



### Step 2: Select a Dataset

- Choose a dataset relevant to your research.
- For analyzing immigrants in the Gulf Region, use 'American Community Survey, 2001-2022'.
- This dataset includes key variables for demographic and socioeconomic analysis.

Use data from multiple samples					
United States, 1850-2022**	Puerto Rico, 1910-2022***				
American Community Survey, 2001-2022**					

#### Considerations when using the multi-year data samples:

- Analyses should include the "year" variable.
- The U.S. file includes the single-year ACS samples and 1% versions of each decennial census, including the 1970 Form 1 metro sample.
- The ACS file includes all single-year ACS samples.
- \*\* Users should proceed with caution when using the 2020 1-year ACS PUMS file and should not compare it to other ACS years in the multi-year data samples. Please see ACS and COVID-19: Guidance for Using the PUMS with Experimental Weights of for more information.
- \*\*\* Users should also note that due to the effects of the COVID-19 pandemic on the 2020 ACS data collection and data quality, the 2020 1-year PRCS PUMS file was not released by the Census Bureau. Thus, it is not available in the multi-year data samples.

Research
Question
Formulation

What helps immigrants do well in the U.S.?

Speaking English

Having an education

Having an income

Let's write a research question related to speaking English

"How does nativity affect English proficiency?"

## Step 3: Define Variables for Analysis

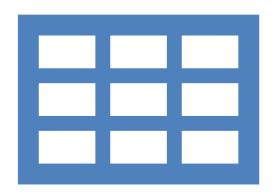
1

• Row Variable: Select a variable to analyze trends, e.g., 'speakeng' (speaks English)

2

• Column Variable: Choose a variable like 'nativity' (born in the US or Born outside of the US). 3

- Filter: Apply filters to focus on Gulf Region states:
- Use 'STATEFIP' and include Texas (48), Louisiana (22), Mississippi (28), Alabama (01), and Florida (12).



Research Queston ("How does nativity affect English proficiency?"), here's how you should organize the variables:

- For Independent Variable (Nativity):
   Place this in the column.
  - Reason: Columns often represent categories that define groups (e.g., born in the U.S. or born outside the U.S.).
- Dependent Variable (Speaks English):
   Place this in the row.
  - Reason: Rows typically show outcomes or response distributions (e.g., the range from "not at all" to "really well").
- This setup allows you to analyze how English proficiency (row variable) varies across different nativity groups (column variable).

## Step 4: Run the Analysis

- Execute the analysis to generate tables or charts.
- Analyze patterns such as immigrant trends by country of origin or socioeconomic status.

Variables							
Role	Name	Label	Range	MD	Dataset		
Row	speakeng	Speaks English	0-6		1		
Column	nativity		0-1		2		
Weight	perwt	Person weight	1.00-4,044.00		1		
Filter	statefip(48)	State (FIPS code)(=Texas)	1-56		1		

	Frequen	cy Distribution			
Cells contain: -Column percent -Weighted N		nativity			
		0 US Born	1 Born outside US	ROW TOTAL	
speakeng	0: N/A (Blank)	<b>8.9</b> 41,179,730.0	<b>1.1</b> 1,057,569.0	<b>7.5</b> 42,237,299.0	
	1: Does not speak English	<b>.2</b> 1,082,165.0	<b>14.1</b> 14,076,865.0	<b>2.7</b> 15,159,030.0	
	3: Yes, speaks only English	<b>71.0</b> 330,043,904.0	<b>12.8</b> 12,831,633.0	<b>60.7</b> 342,875,537.0	
	4: Yes, speaks very well	<b>16.2</b> 75,201,612.0	<b>31.9</b> 31,888,903.0	<b>19.0</b> 107,090,515.0	
	5: Yes, speaks well	<b>2.7</b> 12,781,483.0	<b>19.2</b> 19,249,823.0	<b>5.7</b> 32,031,306.0	
	6: Yes, but not well	<b>1.0</b> 4,563,550.0	<b>21.0</b> 20,984,673.0	<b>4.5</b> 25,548,223.0	
	COL TOTAL	<b>100.0</b> 464,852,444.0	<b>100.0</b> 100,089,466.0	<b>100.0</b> 564,941,910.0	
Color coding	g: <-2.0 <-1.0 <0.0 >0.0	>1.0 >2.0 Z			
N in each ce	II: Smaller than expected Larger	than expected			

# Interpreting Nativity and English Proficiency Data

Understanding Relationships in Frequency Distribution Tables

## Overview of the Variables

- Row Variable: 'speakeng' (Speaks English)
- Scale ranges from 0 to 6 (e.g., 'Does not speak English' to 'Speaks very well').
- Column Variable: 'nativity'
  - Categories:
  - 0: U.S.-born
  - 1: Born outside the U.S.
- Filter Applied: Data focuses on Texas (state FIPS code = 48).

### Table Structure

- What does the table show?
- The relationship between nativity (columns) and English proficiency (rows).

### Interpreting the Columns

Column Percentages show the distribution of English proficiency within each nativity group.

U.S.-Born (Column 0):

- 71.0% speak only English (row 3).
- 16.2% speak very well (row 4).

Born Outside the U.S. (Column 1):

- 31.9% speak very well (row 4).
- 21.0% speak 'but not well' (row 6).

### **Key Observations**

- U.S.-Born Population:
  - Majority (71%) speak only English.
  - Very few (0.2%) do not speak English.
- Born Outside the U.S.:
- Significant proportion (31.9%) speak English very well.
- Higher percentages (21.0%) report speaking English 'but not well'.

### **Color Coding**

- Color Coding:
  - Red: Higher than expected values (>1.0 or >2.0 standard deviations).
- Blue: Lower than expected values (<-1.0 or <-2.0 standard deviations).
- Example:
- Born Outside the U.S. (Column 1):
- 'Does not speak English' (Row 1): 14.1% is larger than expected (red).
  - U.S.-Born (Column 0):
- 'Does not speak English' (Row 1): 0.2% is smaller than expected (blue).



## Insights and Implications

- Key Insights:
- Nativity significantly affects English proficiency.
- U.S.-born individuals overwhelmingly speak only English.
- Immigrants show varying levels of English proficiency.
- Implications:
- Highlights the need for targeted language services and programs for immigrants.

### **Discussion Questions**

1. How does the nativity group influence English proficiency trends?

2. How could this data inform social or educational policy?