Alignment Between Open- and Closed-ended Responses for Gender and Sexuality

Christina Pao and Dashram Pai

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Americans' Self-Identification as Lesbian, Gay, Bisexual, Transgender or Something Other Than Heterosexual, 2012-2022

Which of the following do you consider yourself to be? You can select as many as apply. Straight or heterosexual; Lesbian; Gay; Bisexual; Transgender



Respondents who volunteer another identity (e.g., queer, same-gender-loving; pansexual) are recorded as "Other LGBT" by interviewers. These responses are included in the LGBT estimate. Data were not collected in 2018 and 2019. 2012-2013 wording: Do you, personally, identify as lesbian, gay, bisexual or transgender?

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be you. be counted.

Increase in movement to collect populationlevel LGBTQ+ data

Increase in

LGBTQ+ Disclosure

National LGBTQ Task Force



CONSENSUS STUDY REPORT

Measuring **Sex**, **Gender Identity**, and **Sexual Orientation**



Hidden No Longer: Expanding Our Knowledge on Sexual Orientation and Gender Identity

June 26, 2024 Written by: Robert L. Santos, Director, U.S. Census Bureau

Happy Pride Month, everyone! In June our nation celebrates the accomplishments and resilience of our lesbian, gay, bisexual, transgender, queer, intersex, and asexual (LGBTQIA+) community. To further that celebration, I want to talk about how we at the U.S. Census Bureau are expanding our knowledge on measuring sexual orientation and gender identity (SOGI).

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Best Practices for Asking Questions to Identify Transgender and Other Gender Minority Respondents on Population-Based Surveys (GenIUSS)

Topics

Publications

Experts

September 2014

UCLA Williams Institute

Publications > Data Collection

Two-Step Gender Question

Q10.2	*
What sex were you assigned at birth? (For example, on your birth certificate.)	
○ Female	
O Male	
○ Other	
O Prefer not to say	

Gradational Gender Scales

.1							*
general, how do y	Not at all	urself? Please a	answer on both s	cales below:	Ve		
	0	1	2	3	4	5	6
Feminine							0
	•						
Masculine	<u> </u>						

Q10.3	
What is your current gender?	
O Woman	
O Man	
O Non-binary / third gender	
A gender not listed here (please specify)	





Q2			
How would you describe you	sexuality?		
		11	

What about open-text?

Tradeoffs

Pros	Cons
Detailed responses	Coding logistics
Responsive to	Concordance with old
emergent identities	measures
Inclusivity	Trolls and respondent
	confusion

Total Survey Error Framework

Measurement

Representation



Total Survey Error Framework

Measurement

Representation



RQ1: How well do open text measures align with traditional (closed-ended) categorical measures?

RQ2: How much new information do we gather about majority and minority groups, respectively, from open text?

Case Study: Gender Identity and Sexual Orientation

Data and Methods

Data

- **Lucid** (opt-in convenience sample)
- **Quotas** (age, region, sex, education, race—in US sample)

Dependent Vars.

- Alignment: correspondence between closed-ended and open-text responses
- New information: information gleaned from open-ended that was not provided in closed-ended

Gender

- Open Text
- Two Step Gender Question
 - Sex
 - Gender

Sample Two-Step

What sex were you assigned at birth? (For example, on your birth certificate.)

○ Female

O Male

0	Other

Prefer not to say

Q10.3
What is your current gender?
🔿 Woman
O Man
O Non-binary / third gender
A gender not listed here (please specify)

Gender

• Open Text

- Two Step Gender Question
 - Sex

• Gender

Sample Two-Step

Q10.2

What sex were you assigned at birth? (For example, on your birth certificate.)

○ Female

O Male

○ Other

Prefer not to say

Q10.3

What is your current gender?

\bigcirc	Woman
\sim	

O Man

Non-binary / third gender

O A gender not listed here (please specify)

Sexuality

- Open Text
- UK census categories
 - straight, gay/lesbian, bisexual, prefer not to say
 - select one
- Expansive categories (used on university surveys)
 - 12 categories
 - select all that apply

Expansive List

Out of this expanded list, please select all that apply to you:

- Aromantic
- Asexual
- Bisexual
- Fluid
- 🗌 Gay
- Lesbian
- Pansexual
- Queer
- Questioning or unsure
- Straight (heterosexual)
- Prefer not to disclose
- Additional category/identity not listed

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Overview of Coding Open-ended Responses



Coding Process

Thanks to two undergraduate RAs, Dash Pai (left) and Yan Zhen Zhu (right)!

















Findings

Finding 1

RQ1: How well do open text measures align with traditional (closedended) categorical measures?

Gender identity open text has **high alignment** with a closed-ended measure among men and women.

Sexual orientation open text has **low alignment** with a closed-ended measure, particularly among non-straight respondents.

Gender Response Alignment

What is your gender?

99%

of responses align between open text and closed-ended responses within respondents.

Gender Response Alignment

What is your gender?

High alignment among both men and women between closed- and openended formats



Sexuality Response Alignment

How would you describe your sexuality?

of responses align 80% between open text and closed-ended responses within respondents.

Sexuality Response Alignment

How would you describe your sexuality?

However, there are large differences in alignment between majority and minority group members.



Finding 2

RQ2: How much new information do we gather about majority and minority groups, respectively, from open text?

Gender identity open text does not allow us to gain much information about the majority group, but it does allow us to gain information about the minority group.

Sexual orientation open text allows us to gain information about both the majority and minority group.

Gender Responses: New information

What is your gender?

Out of those who did not fit into "man" or "woman" categories...

Code	#	Examples
Trans, nonbinary, or other gender term	11	"nonbinary", "Gender queer", "Androgynous", "non-binary", "Genderfluid"
Prefer not to say or don't know	3	"unsure", "Prefer not to say", "Gender is what the individual thinks it is"
Missing data or invalid response (e.g., a numeric)	14	"43", "Straight", "bcde", "mn,m."

What is your sexuality?



What is your sexuality?



What is your sexuality?



Conflation of Sex, Gender, and Sexuality Terms

What is your sexuality?



What is your sexuality?



Discussion of sexual behavior

What is your sexuality?



Naming the gender of sexual attraction (instead of own self-ID label)

Off-topic or revealing?

Circumstantial Sexuality

- "No longer an important part of my life. I am old, bald and overweight, not the posterboy for sexy"
- "a middle-aged, single, gay man trying to manage family obligation while watching his dating life pass him by"

Attraction/Behavior vs. Identity

- "straight until I have a little liquor"
- "straight with lesbian tendencies"
- "straight but like girls sometimes"

Intra-straight heterogeneity?

- "MANAGOMOUS"
- "Fucking Straight"
- "HETERAL SEXIUAL"

In summary...

There are tradeoffs to using open-ended and closedended measures, and this is a particularly unique time to study gender and sexuality. We found that there was high alignment between open-ended and closedended formats of gender questions, but not of sexuality questions. The new information gleaned from *nonaligned* open-ended responses reveals particularly interesting information for sexuality.

At scale, gender openended text questions are likely feasible.

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Thank you!

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Dashram Pai (Undergraduate, Princeton University) dashpai@princeton.edu And stay tuned! Forthcoming work evaluating alignment between short-form and expansive mark-all-that-apply options for sexuality in *Socius*.

