# TOPIC MODELING IN THE ASEXUAL CENSUS

by Bauer McClave 3/3/2016

## GOALS

- · Describe topics of long form responses in survey data
- · Find key words and phrases for each topic
- Create dictionary lookup application with Word2Vec

## USE CASE:



- Current survey report is static
- Data analysis done by volunteers with no reporting on long form answers so far
- Allows community
   members to investigate for
   themselves

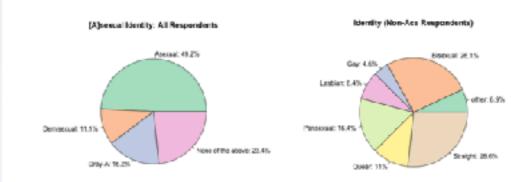
#### 2014 AVEN Community Census: Preliminary Findings

#### Section 1: General Survey Demographics

Unless otherwise specified, results in this section include all survey respondents - both ages and non-ages.

#### 1.1 Sexual Orientation

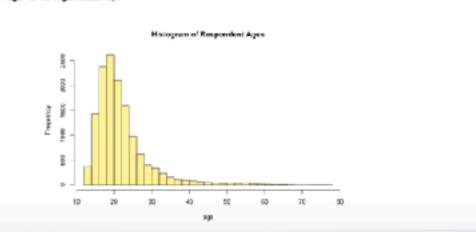
For the purposes of this survey, those who chose "Asexual", "Grey-Asexual", or "Demisexual" have been classed as "Aces", while those who chose "None of the Above" were classed as "non-aces". Those who chose "None of the Above" were given an additional set of sexual orientations and asked again to choose which they most identified with.



(Note: for breakdowns of romantic orientation, see the Associal Identity section.)

#### 1.2 Ag

Respondents ranged in age from 13-77, with a median age of 21 and mean age of 22.45. (The survey was limited to respondents over age 13 for legal reasons).

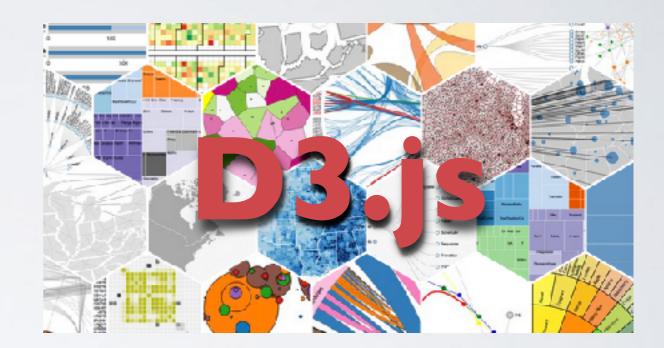


# AVEN COMMUNITY CENSUS

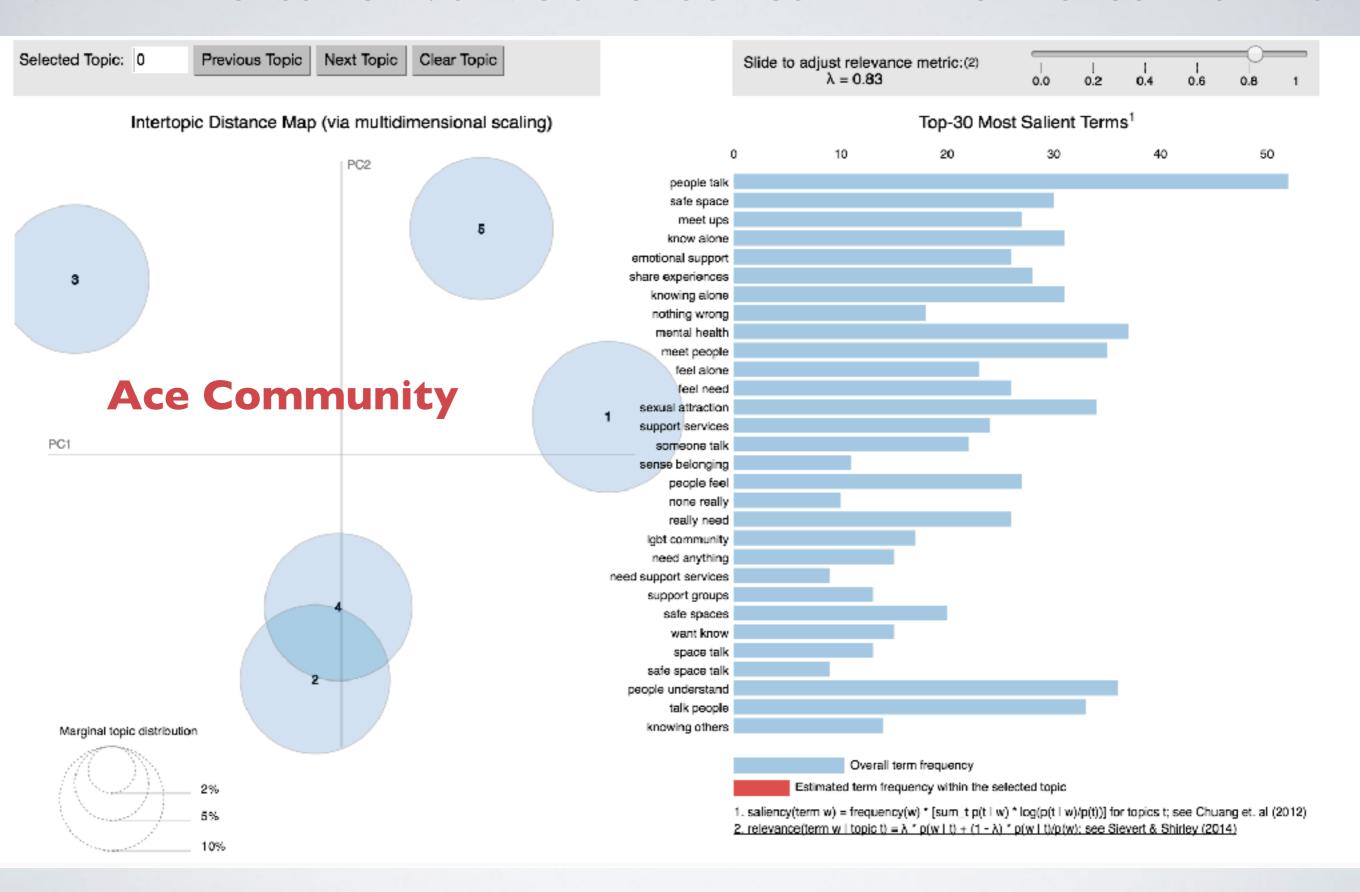
- Asexual Census community of people who do not experience sexual attraction (with much nuance)
  - 9,850 with 6,311 respondents wrote long answer
    - Tell others? Their response?
    - Experience prejudice or discrimination
    - Support/services needed from asexual community
    - Support/services needed from other communities
    - Unanswered questions about the community
    - Other stories you would like to share

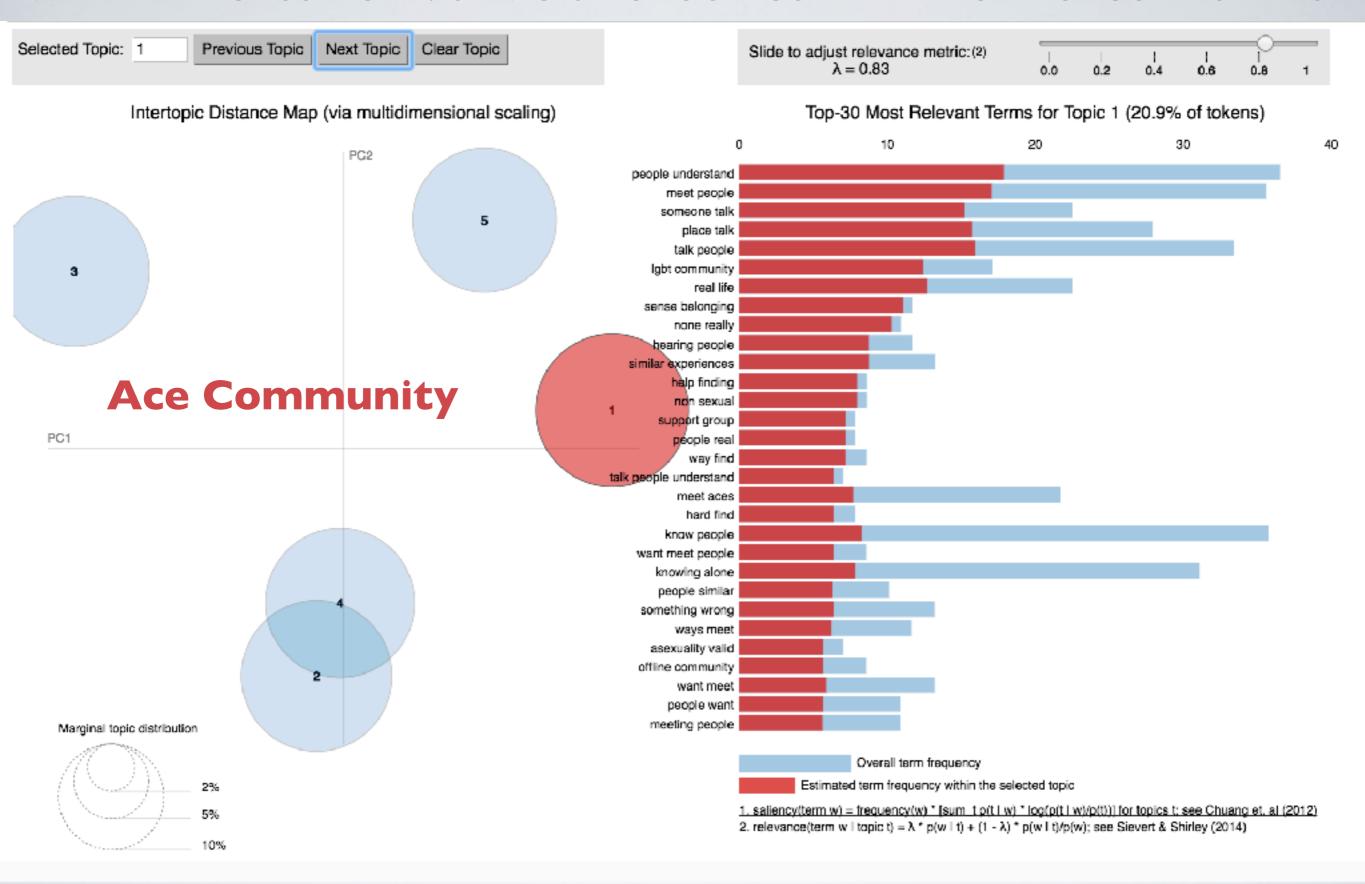
# METHODS

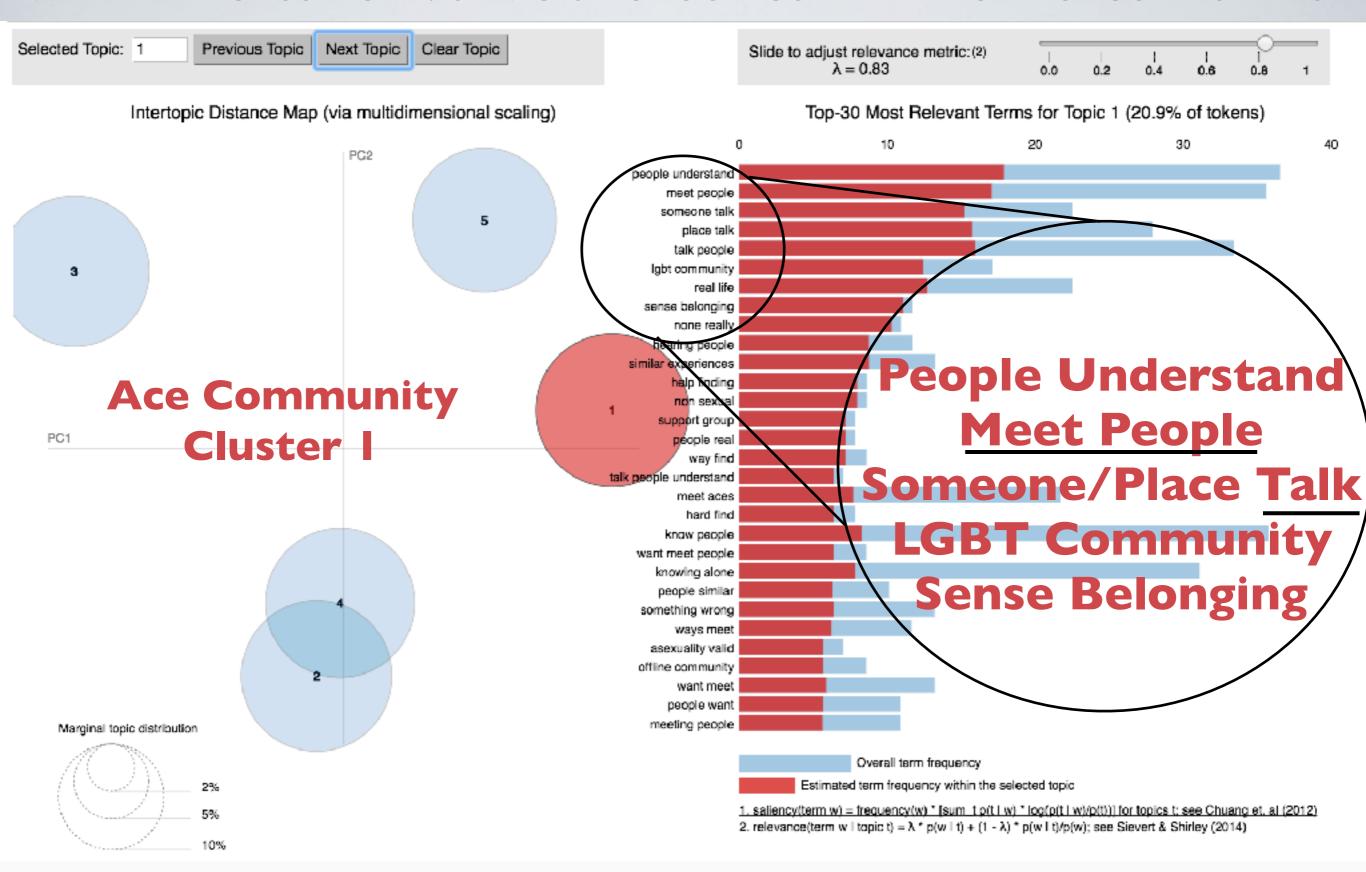
- Survey Creation team member (Oct. 2016)
- Pre-processing
- Topic Modeling:
  - Count Vectorizer
  - LDA
  - Word2vec & TSNE

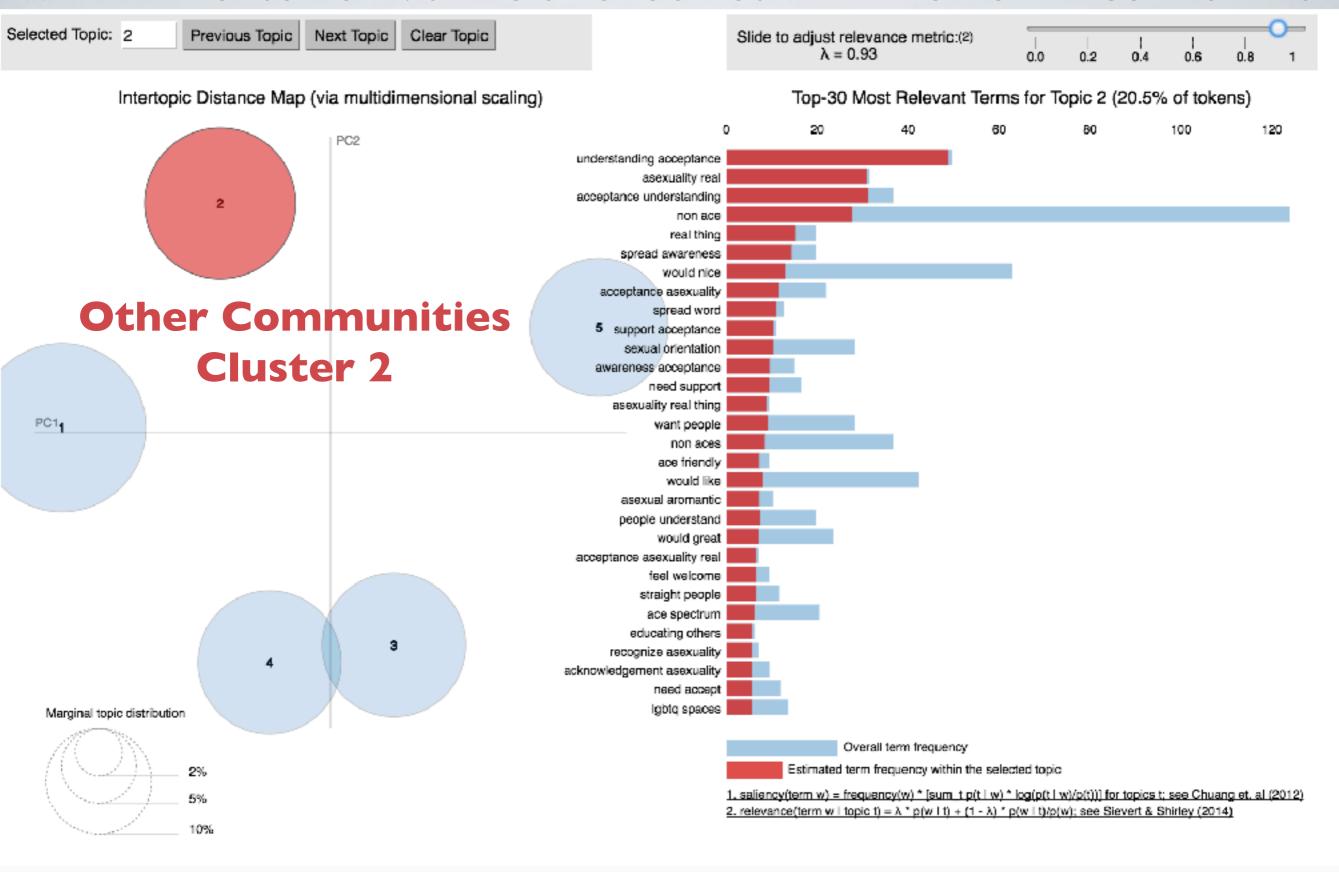


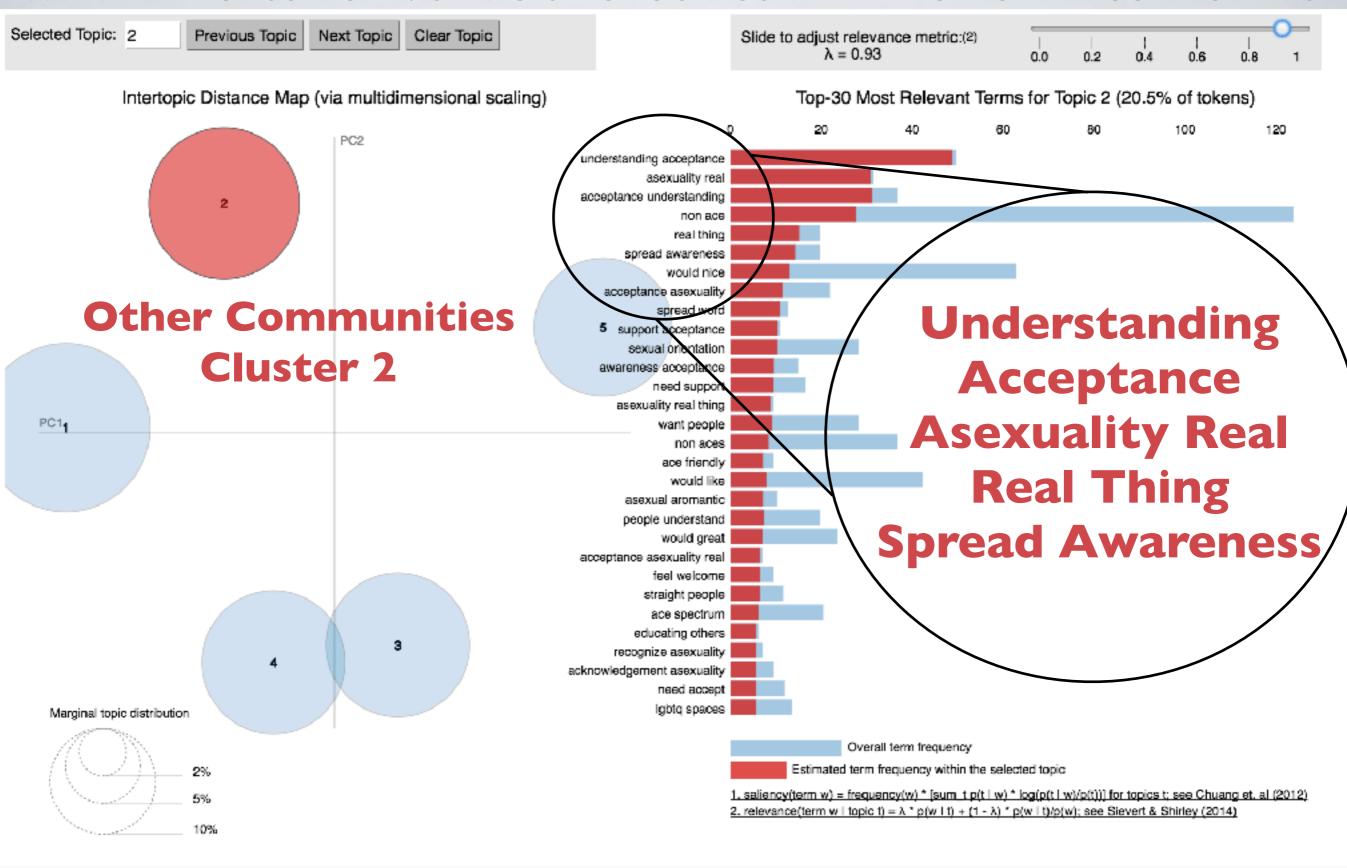


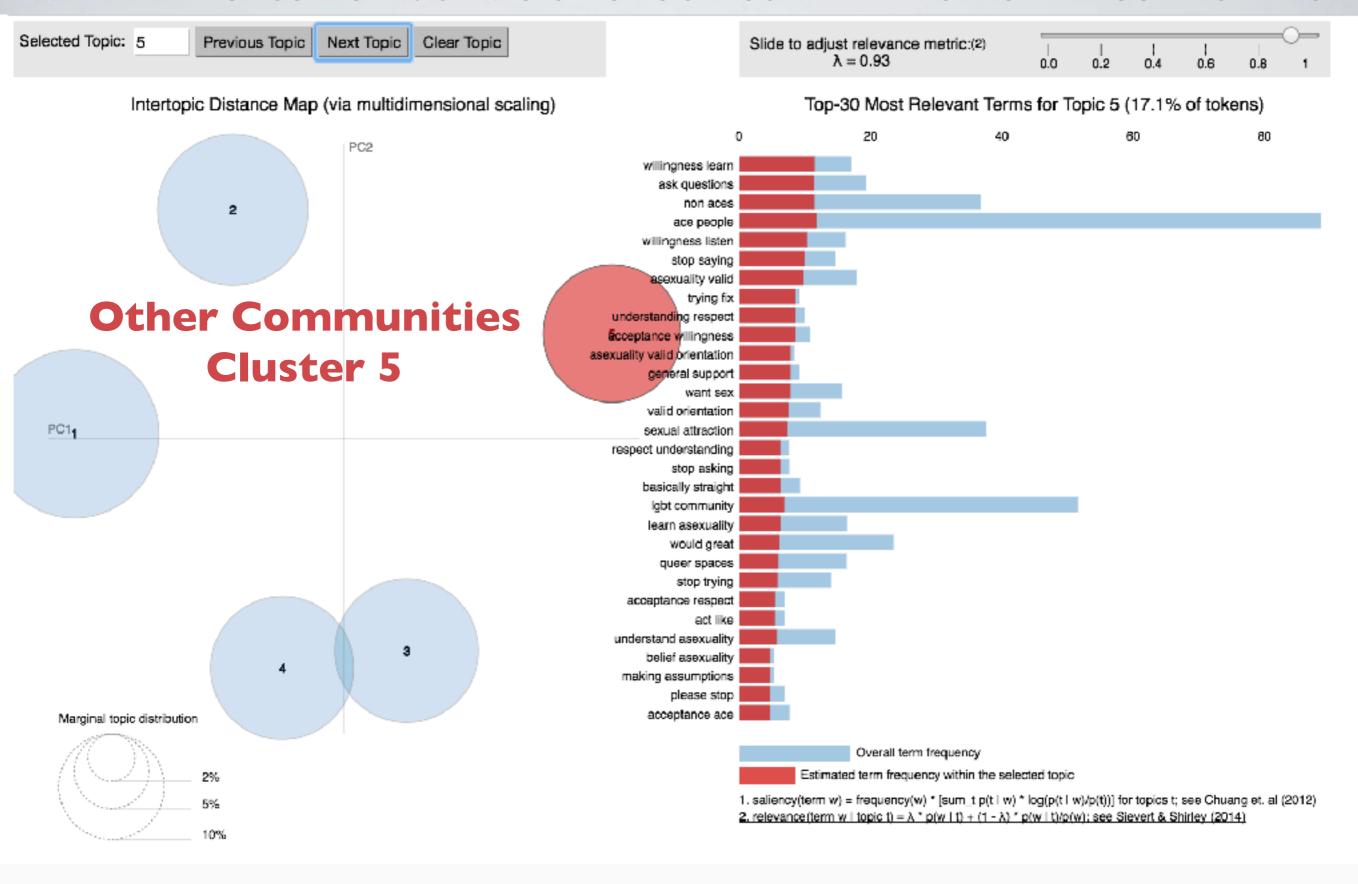


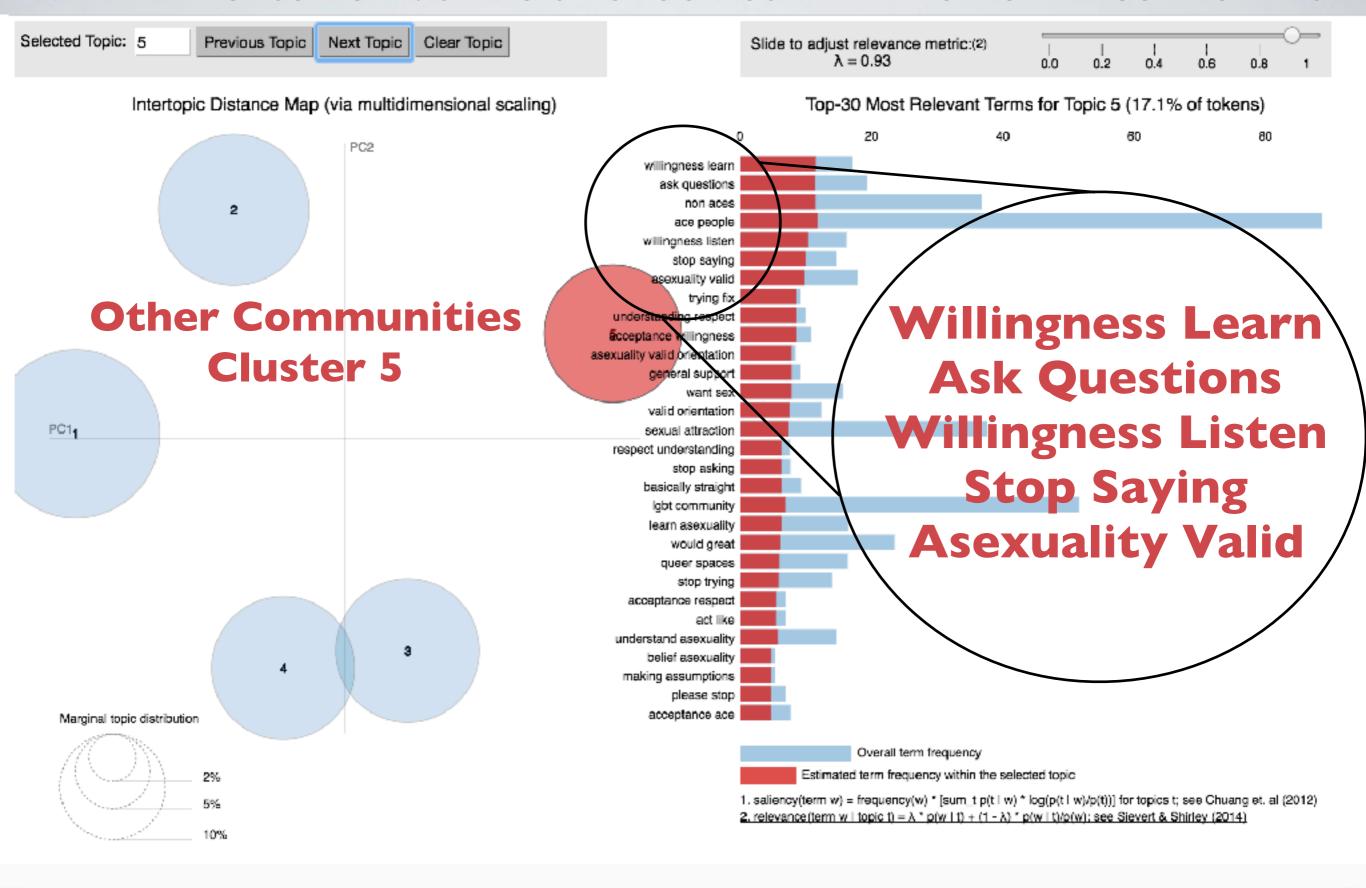


















# Ace Lookup



## SUMMARY

- Can use topic modeling to analyze long form text answers
- Reduce manual work by volunteers analyzing the survey
- Allows community members to investigate and interact with the dictionary for themselves

# FUTURE

- Create interactive graphs for descriptive statistics
- Filter for certain populations

Questions?

# LONG FORM QUESTIONS

- Do you tell other people about your asexuality? How have they responded, and how did you feel about those responses?
- Have you ever experienced prejudice or discrimination as a result of your a/sexuality? What happened?
- What kind of support or services do you most need from ace communities?'
- What kind of support or services do you most need from non-ace allies?
- What unanswered questions do you have about the demographics, behaviors, or attitudes of aces and ace communities?
- Are there any other stories or statements you would like to share?