# 'Cannabis' is a Blue State Word

Marijuana Decriminalization, Keyword Development, and Considering Political Contexts in Search Results Kevin Seeber / @kevinseeber Education and Outreach Services Department Head

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#ACRL2019 / #ACRLweed



Our paper: tinyurl.com/ACRLweedpaper Our slides: tinyurl.com/ACRLweedslides Conference hashtag: #ACRL2019 Our hashtag: #ACRLweed

#### Introduction

# This paper is the result of everyday lesson planning.

## We decided to discuss "keyword development."

This outcome was the result of consultation with the English Department, and is in line with our departmental SLOs, as well as concepts discussed in both the ACRL Standards and the Framework.

"How has legalizing the sale of recreational marijuana impacted drug crime in Colorado?"

This particular question sparked discussion in our department.

"Query expansion" is when you search with one word, but the database automatically searches for others.

## Are the words "marijuana" and "cannabis" really used interchangeably?

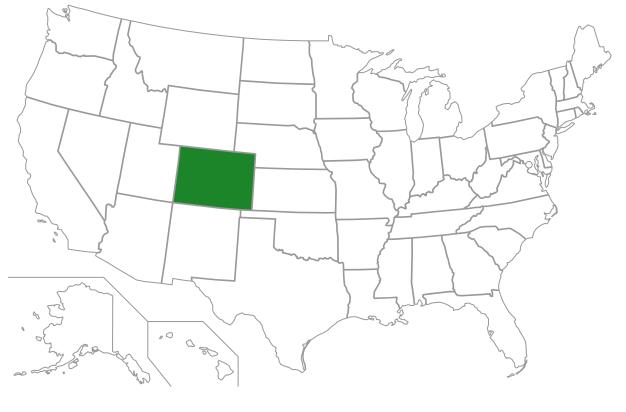
# The political context surrounding this drug has drastically shifted since 1996.

#### California Started It



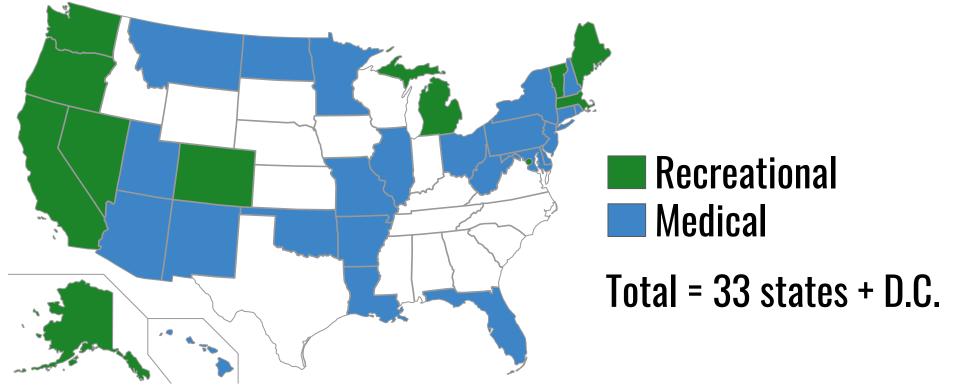


#### Colorado Advanced It



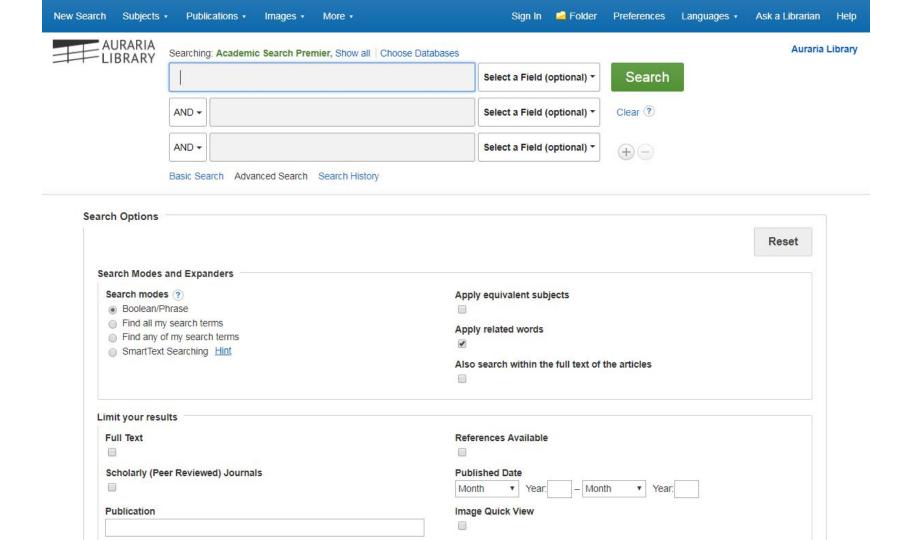


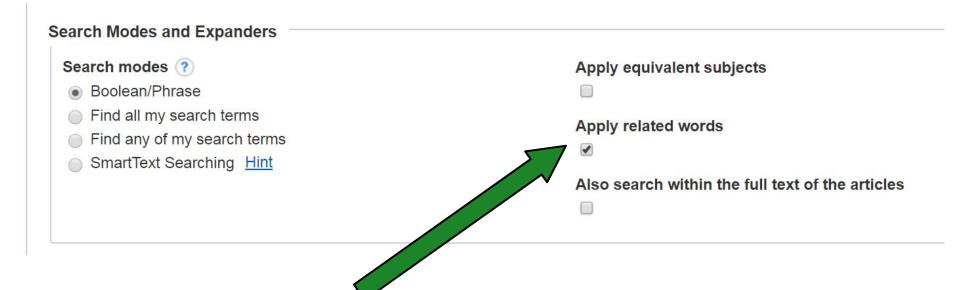
## The State of Legalization Today



### Methods

## To address our research questions, we conducted a systematic literature review.



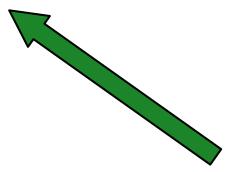


"Apply related words" is EBSCO's version of Query Expansion. We used Academic Search Premier because it is possible to turn off this functionality.

#### EBSCO also permits batch exporting of metadata as .csv files, which made our data collection simple.

#### Save citations to a file formatted for:

- Direct Export in RIS Format (e.g. CITAVI, EasyBib, EndNote, ProCite, Reference Manager, Zotero)
- Direct Export to EndNote Web
- Generic bibliographic management software
- Citations in XML format
- Citations in BibTeX format
- Citations in MARC21 format
- Direct Export to RefWorks
- Direct Export to EasyBib
- Download CSV



## In total, we collected metadata for 10,479 articles. 5,643 about "Cannabis" and 4,836 about "Marijuana."

## We hand coded a representative sample of 540 articles (5.2% of the total dataset).

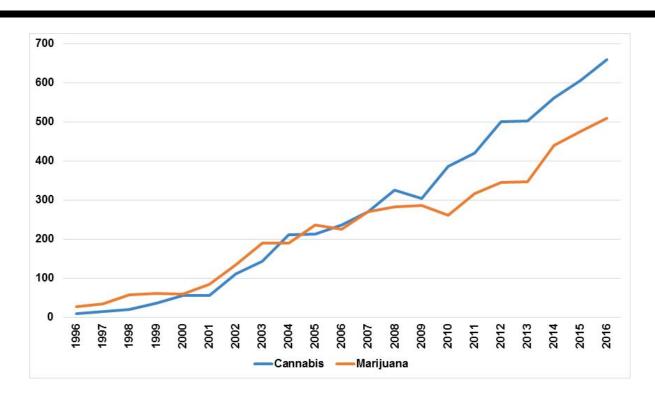
Coding Categories

Geography. Academic Discipline. Application of Use. Sentiment Expressed.

# We'll have time for questions at the end, but in the meantime... #ACRLweed

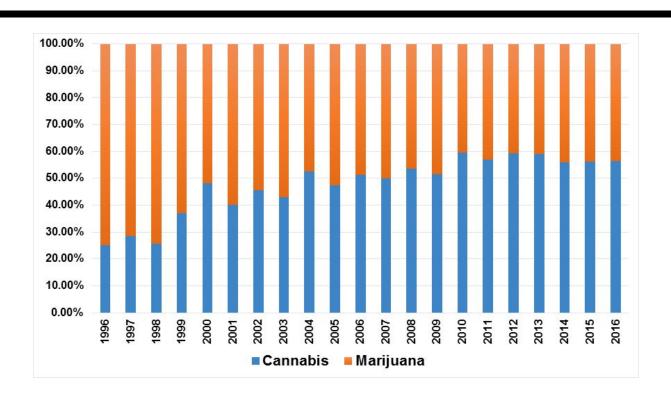
### Results

## Total Number of Articles Published, by Term, 1996-2016



(n=10,479)

## Use of Individual Term as a Percentage of Total Articles Published, 1996-2016



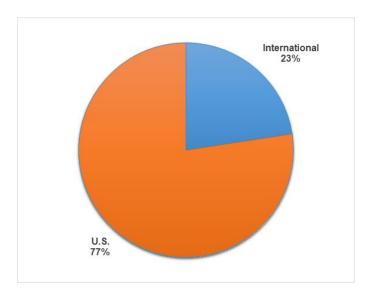
(n=10,479)

#### Use of Terms "Marijuana" and "Cannabis" by Academic Discipline

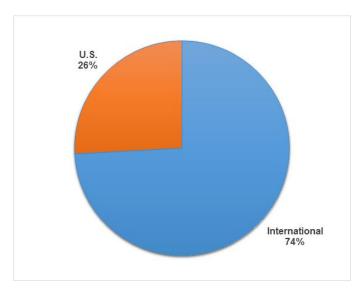
	Marijuana (n 250)		Cannabis (n 290)	
Discipline	Count	Percentage	Count	Percentage
Agriculture	0	0.00%	7	2.41%
Biology	0	0.00%	6	2.07%
Business	2	0.80%	0	0.00%
Counseling	1	0.40%	0	0.00%
Chemistry	0	0.00%	1	0.34%
Criminology	12	4.80%	2	2.41%
Education	7	2.80%	1	0.34%
Environmental Science	0	0.00%	1	0.34%
Forensics	3	1.20%	13	4.48%
Gender/Sex	9	3.60%	3	1.03%
Law	7	2.80%	1	0.34%
Medicine	57	22.80%	89	30.69%
Policy	9	3.60%	16	5.52%
Psychology	34	13.60%	34	11.72%
Public Health/Safety	16	6.40%	8	2.76%
Religion	1	0.40%	1	0.34%
Sociology	5	2.00%	4	1.38%
Sports	1	0.40%	0	0.00%
Substance Use	85	34.00%	98	33.79%

## The geographic location of where the study took place made a difference.

Of the 217 articles about "marijuana" that mentioned a location...



Of the 147 articles about "cannabis" that mentioned a location...



#### Sentiment expressed toward the use of the substance.

Of the 250 articles about "marijuana"

150 (60%) were negative 82 (33%) were mixed 18 (7%) were positive

Of the 290 articles about "cannabis" 142 (49%) were negative 115 (40%) were mixed

33 (11%) were positive

	Marijuana (n 250)		Cannabis (n 290)		
	Count	Percentage	Count	Percentage	
Recreation	190	76.00%	202	69.66%	
Medical	31	12.40%	28	9.66%	
Criminal	14	5.60%	10	3.45%	
Laboratory	13	5.20%	39	13.45%	
Agriculture	2	0.80%	11	3.79%	

# Application of Use Described in the Article

## Discussion and Implications

# Words Matter

## What would we like vendors to do?

Notify users when related terms are applied. Tell users what those related terms are. Allow users to turn off query expansion.

The "Black Box" approach to algorithm development makes this scenario unlikely. (We already tried...)

## So what can reference and instruction librarians do?

Work with our colleagues in electronic resources and metadata positions to customize search interfaces that make it easier for users to control search behavior.

## What else can reference and instruction librarians do?

Continue to discuss algorithms and applied synonyms with students, as well as talk about how these added keywords might impact an individual's research.

This goes beyond one example.

Language is often politicized and turned against those who are marginalized, such as the LCSH "illegal aliens."

# Think about other ways that language has been politicized.

## What questions do you have? #ACRLweed

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