Launching Students Toward Research Success

ACRL 2017 Conference

Pamela Bach
Robert Freeman
Olga Hart
Rebecca Leporati

Learning Outcomes

Learn simple and easy techniques to optimize touchpoints with undergraduates.

- First year students
- Mid-collegiate discipline courses
- Senior: Presentation formats

Learn strategies for scalability, using digital tools.

Learn how to embed the threshold concepts across the curriculum.

First Year Students

New Student Orientation

Testing the waters

70% received instruction on finding & using info from a librarian/media specialist

Used variety of resources: websites, books, videos, images – top 4
Only 56% had used scholarly journal articles

Research databases: Google Scholar and EBSCO on par with Wikipedia

Used variety of formats: PowerPoints, videos, brochures, Prezi

Poll: Taking the Plunge

What 3 words come to mind when you think of RESEARCH?

In Synch with English Composition

Libguides, course learning outcomes & threshold concepts

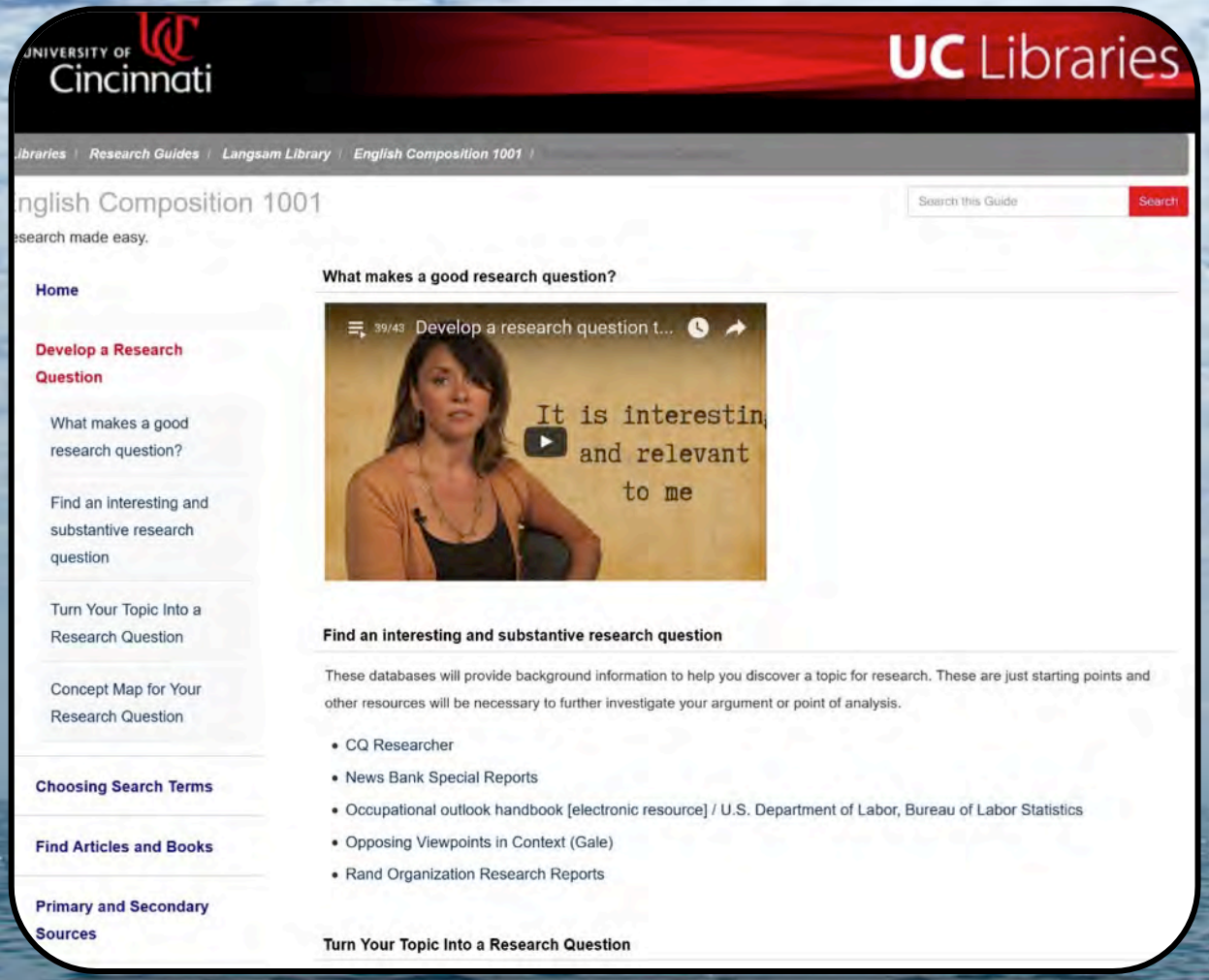
One shot sessions

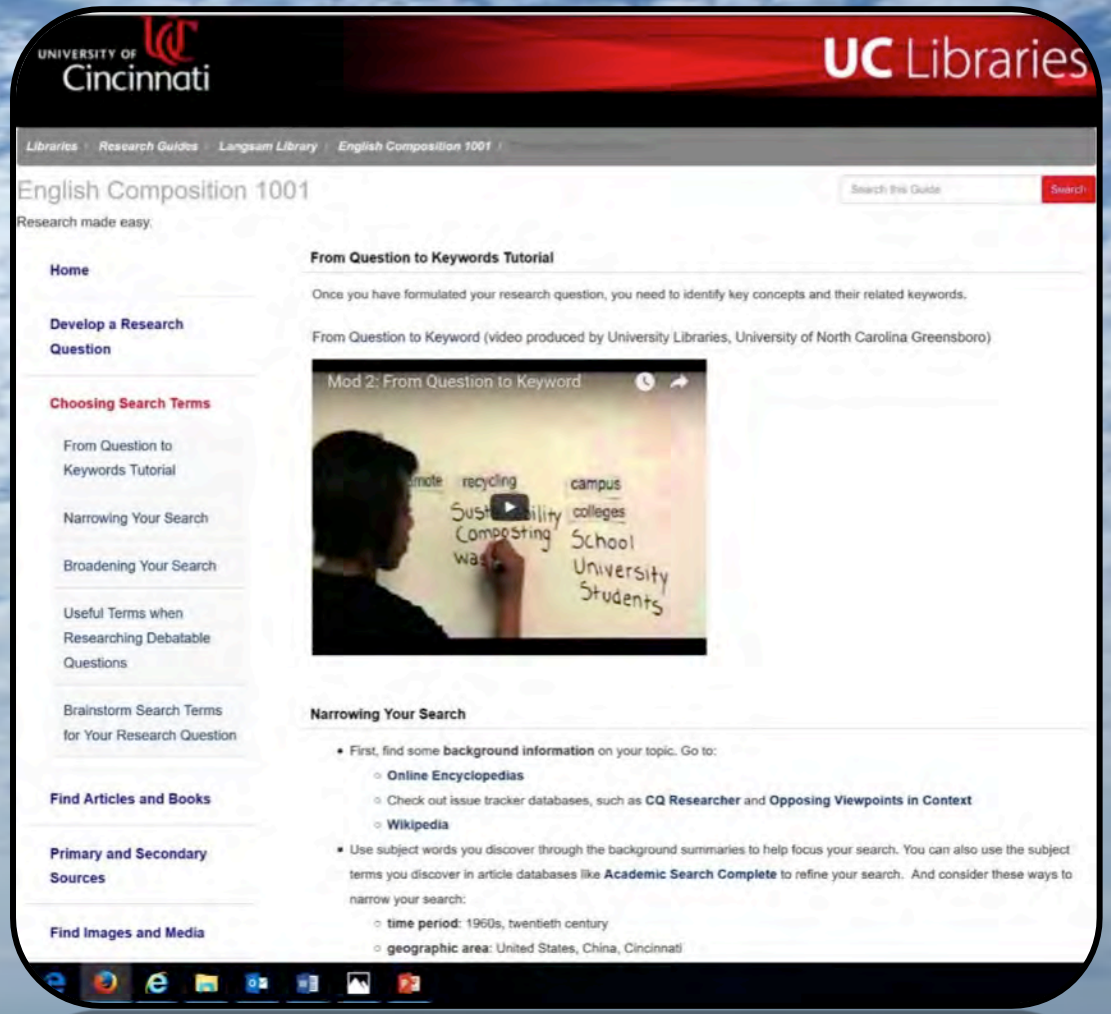
University Composition Committee

Annual Writing Award Ceremony

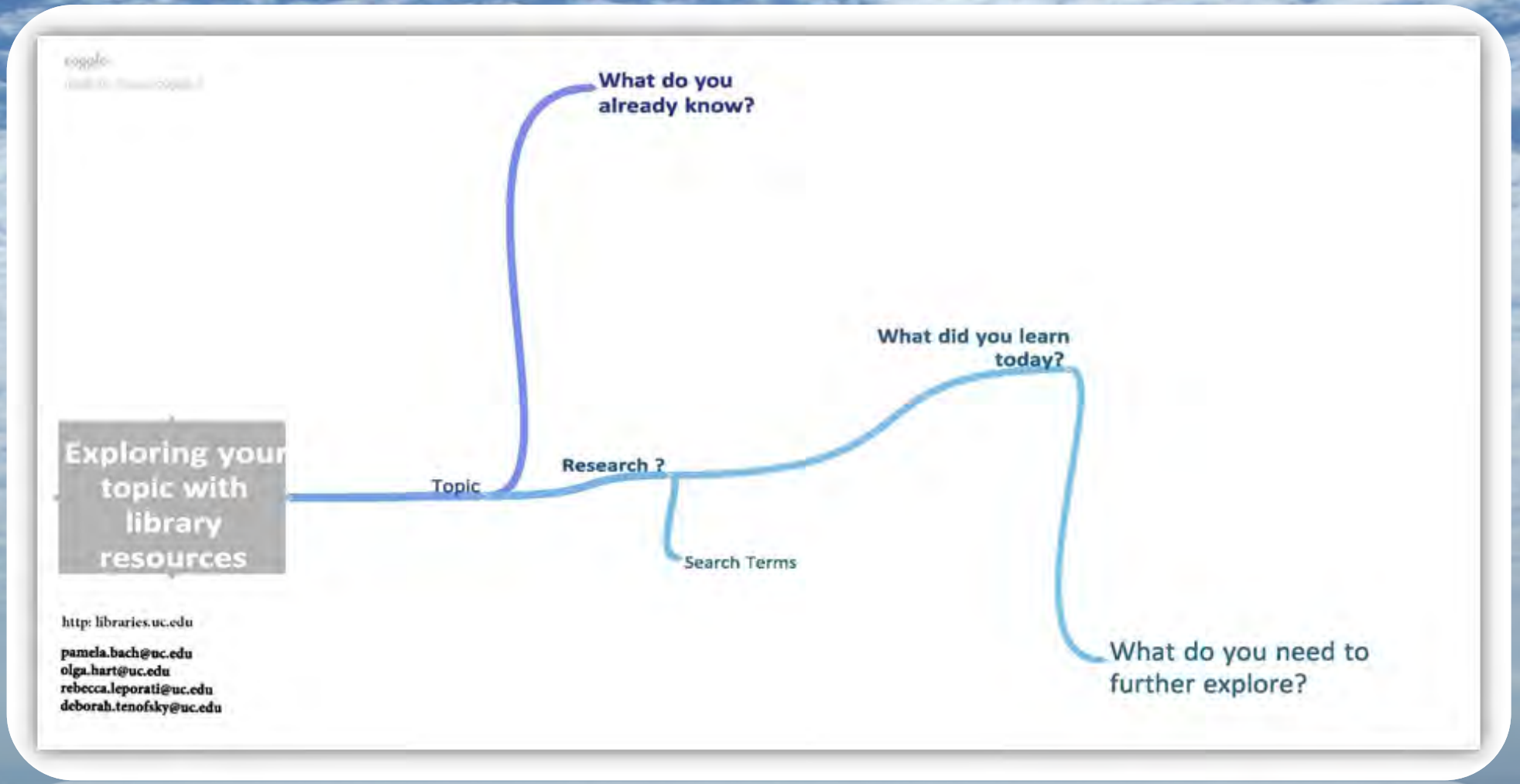
Flipping to Optimize Face to Face

Research Guide





Pair and Share Concept Map


What do you already know?
What did you learn today?
Exploring your topic with library resources
Topic
Research ?
Search Terms
What do you need to further explore?
http: libraries.uc.edu
pamela.bach@uc.edu
olga.hart@uc.edu
rebecca.leporati@uc.edu
deborah.tenofsky@uc.edu

Reflection

Testimonials

Students

"Thanks again for taking time out of your day to show my class this. I never knew this even existed. But it looks like I will be using this a lot in the future."

"Thank you for the help. These sources will really add depth to my report. The *higher education inequality and public good,* is just the sort of reference I needed."

Faculty

"Thanks so much for the workshops you arranged for my four English Composition 1001 classes. It helped them immensely and they have turned in much better research for their essays since attending these workshops."

Navigating the Storm

Charting a new course for first-year instruction

“Many assume that because young people are fluent in social media they are equally savvy about what they find there.

Our work shows the opposite.”

-Stanford History Education Group

Flipped Classroom

1. Choose-Your-Own Research Path (interactive tutorial)
2. How to Evaluate Information Resources (video)
3. Submit a Source (article search activity)

Flipped Classroom

Activity

Interactive tutorial where students choose their own research path.

Learning Outcome

Students will understand how to use different online information sources in their research.

Flipped Classroom

Activity

Watch a short video examining various online sources.

Learning Outcome

Students will learn what elements of online sources to analyze

Flipped Classroom

Activity

Send in a source URL with a short evaluation of its trustworthiness.

Learning Outcome

Students will be able to analyze sources they find online.

Pair & Share

A new focus for a successful tool.
Students will analyze peer-submitted articles.

“Research Hacks”

Or, how to keep the library orientation in a source-analysis focused instruction session.

1. How to make Google the ultimate keyword thesaurus.
2. How to use Wikipedia to jump-start your works cited.
3. Get peer-reviewed sources quick: Use the library catalog.
4. Use article databases to limit search results.
5. Skimming the easy way: Ctrl + F.

Faculty Collaboration

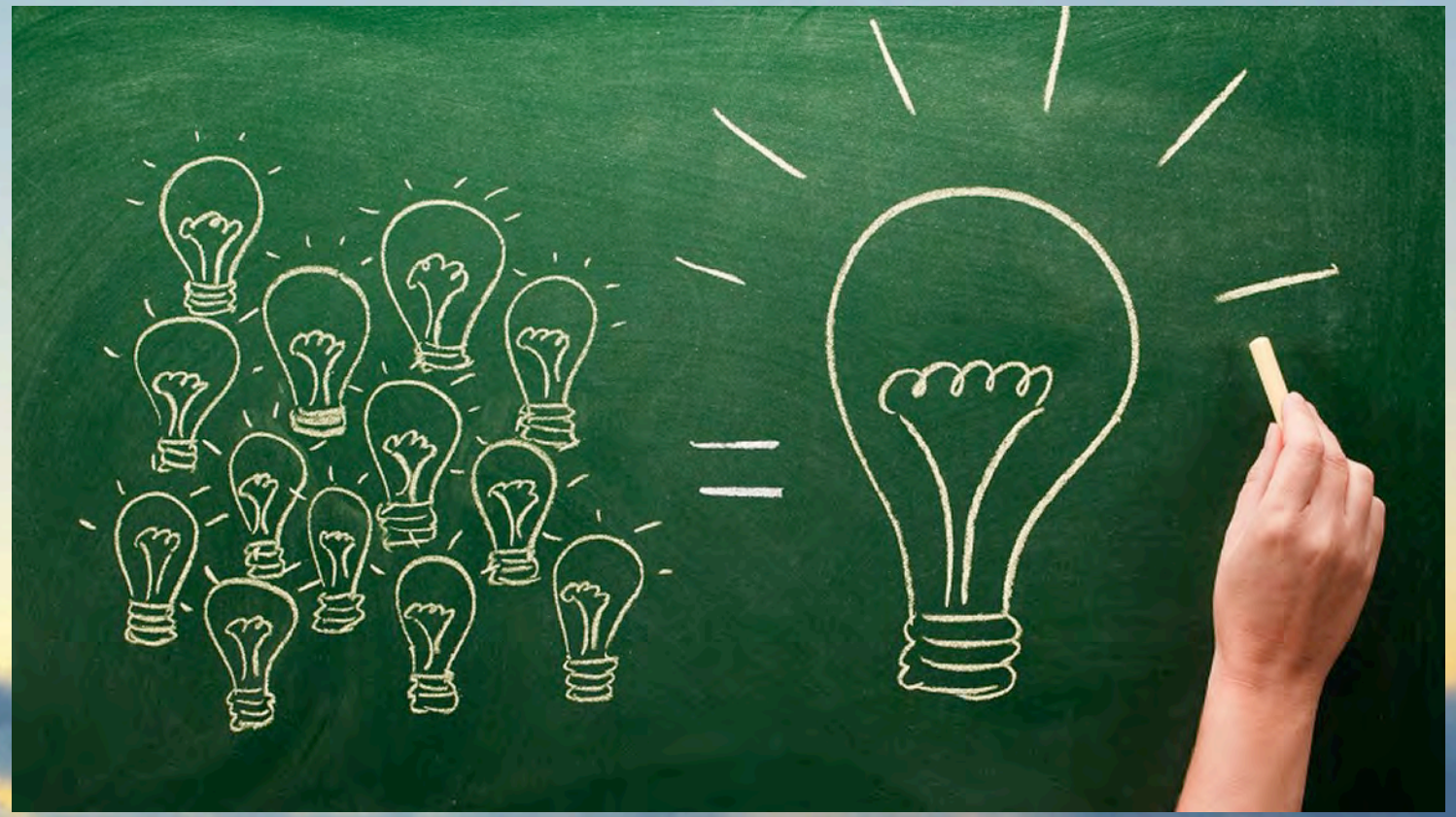
We are leveraging well-established faculty relationships to:

- Pilot activities
- Tweak our tools

Any Questions or Comments

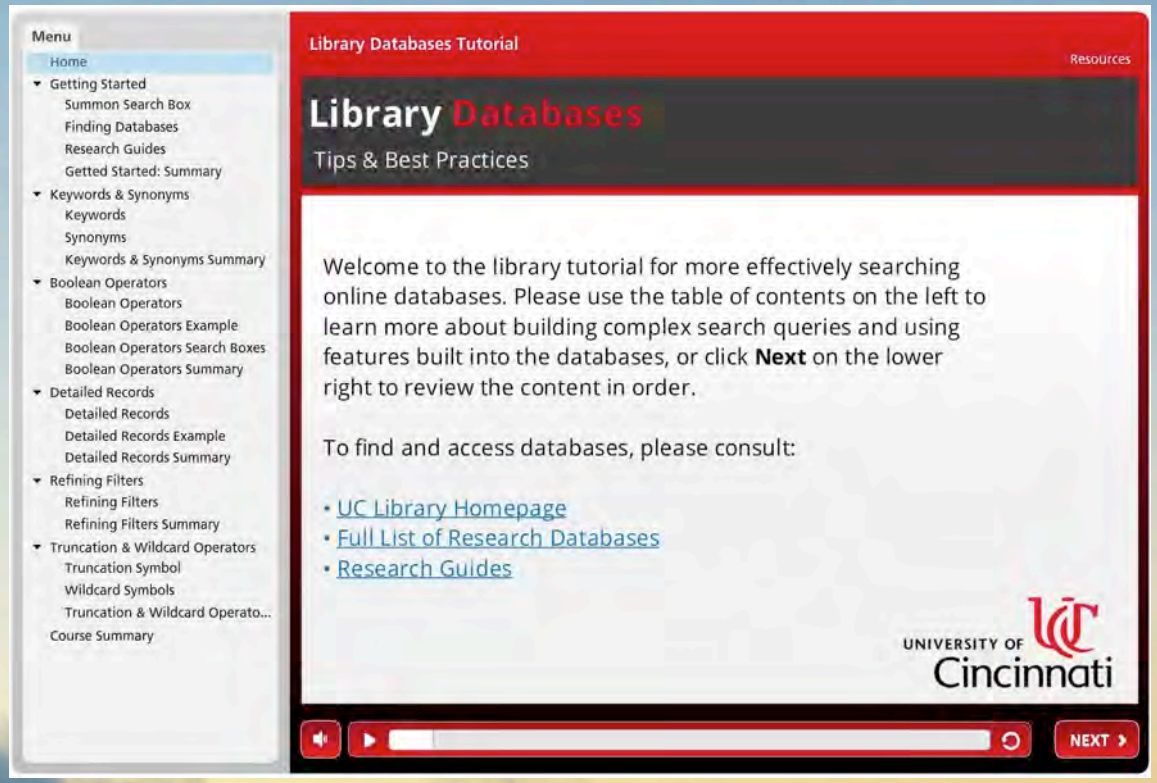
Discipline Specific Classes

Expanding a discipline specific tutorial to be applicable for multiple disciplines.



Universal Strategies

- Encourage information seeking behaviors.
- Give students the tools to search for themselves.



Universal Strategies

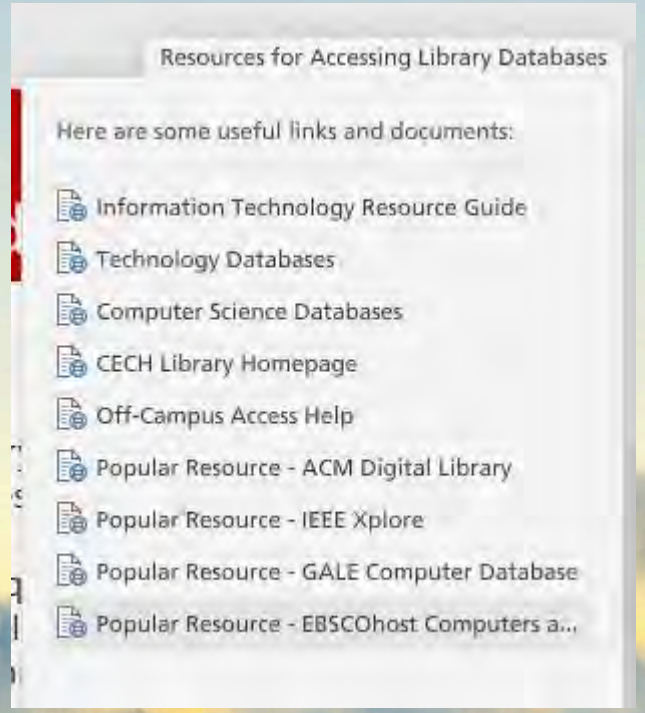
- Search engine logic
  - Keywords
  - Boolean operators

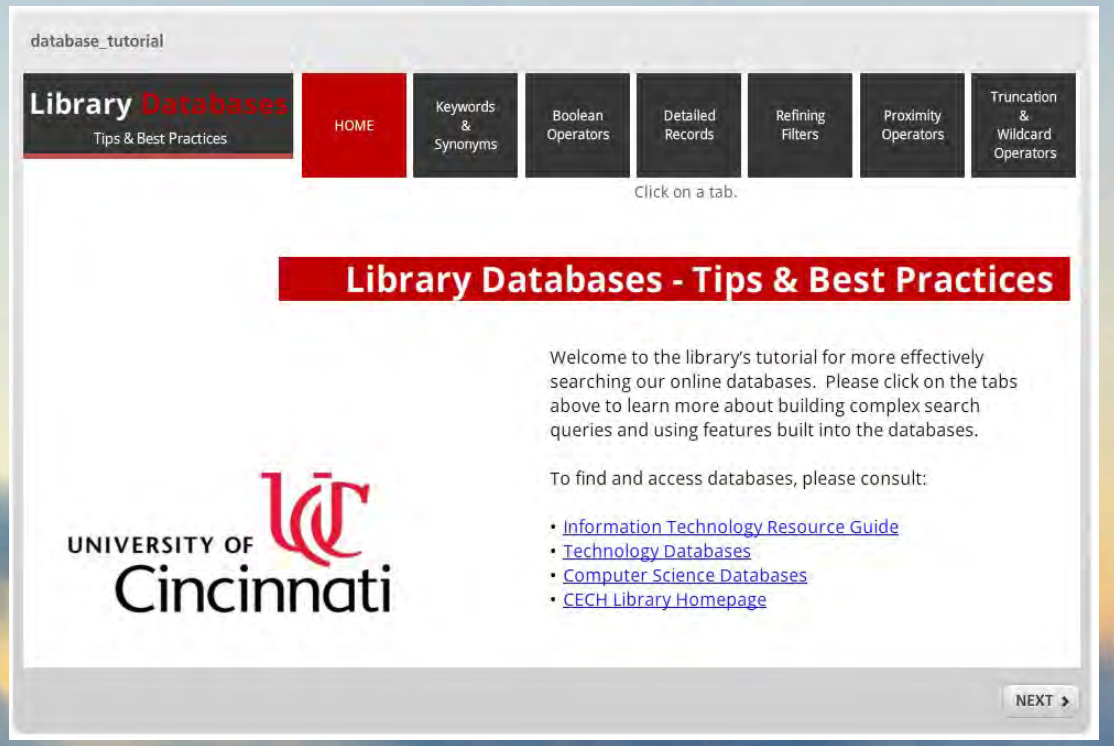
Universal Examples

- Cross-disciplinary examples
  - Information technology
  - Education
  - Counseling
  - Criminal justice
- Scalable & improves delivery

Modular Design

Supplemental Resource Areas can be customized for specific topics.





Modular Design

- YouTube cannot replace videos.

- Vimeo and Kaltura can.

Expand Distribution

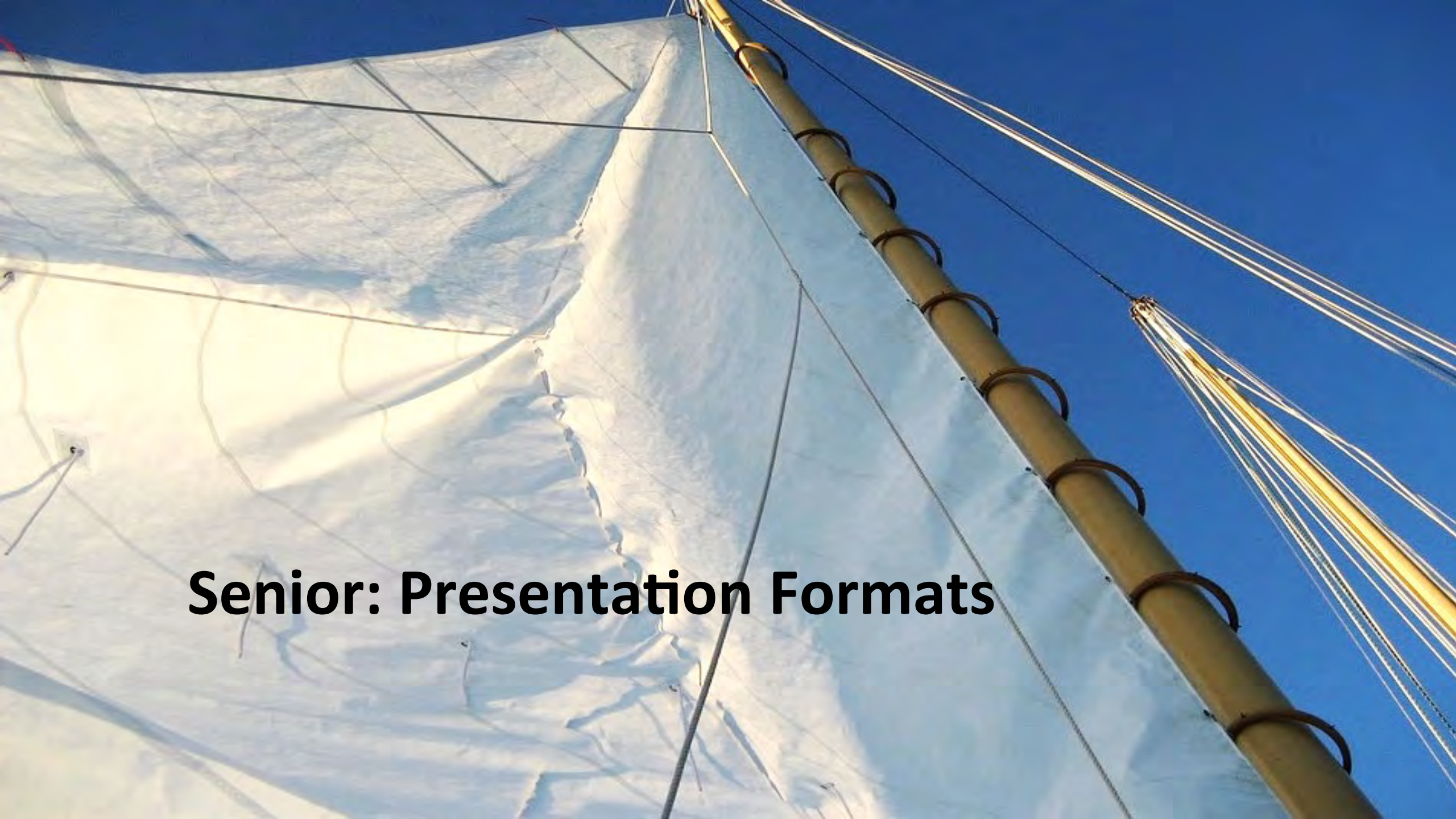
- Embed the tutorial in LMS course shells.
- Who manages your LMS?

Testimonials

“This was incredibly helpful for learning how to do research in the library. I wish I could have learned this information as a freshman.”

“I did not realize that we had the use of truncation and wildcard operators. Thank you for including this specifically.”

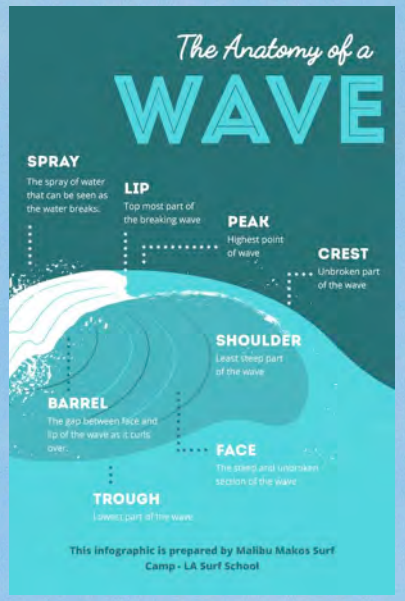
Any Questions or Comments

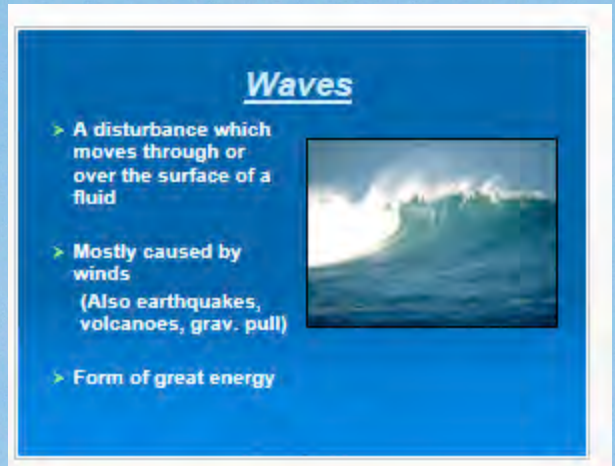


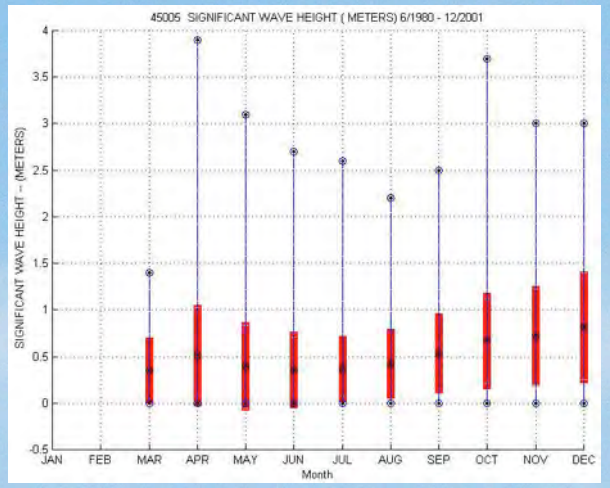
Senior: Presentation Formats

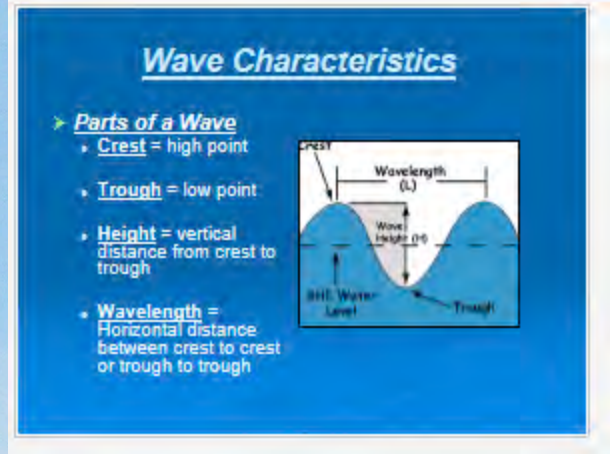
"Students have a greater role and responsibility in creating new knowledge…"

- *Framework for Information Literacy for Higher Education*









Poll: Have you had a request for library instruction on visual presentation of information?

Poll: Do you think that we should provide such instruction?

Getting My Feet Wet:
Introducing Students to Infographics

Activity I

Poll: Please rate the exhibits for the **impact** each of them made on you (1- lowest, 5 – highest)

Exhibit 1

2013 Ohio Infant Mortality Data: General Findings

INFANT MORTALITY IN OHIO

Infant mortality is defined nationwide as the death of a live-born baby before his or her 1st birthday. Infant Mortality Rate is calculated as the number of babies who died during the first year of life per 1,000 live births. It can be expressed as Overall Infant Mortality Rate, White Infant Mortality Rate, and Black Infant Mortality Rate.

In 2013, 1,024 infants in Ohio died before their 1st birthday, compared to 1,047 in 2012.

Ohio's Infant Mortality Rate based on 2013 (most recently available) data:

- Overall: 7.4 infant deaths per 1,000 live births
- White: 6.0 infant deaths per 1,000 live births
- Black: 13.8 infant deaths per 1,000 live births

The 2013 national Infant Mortality Rate:

- Overall: 6.0 infant deaths per 1,000 live births
- White: 5.1 infant deaths per 1,000 live births
- Black: 11.2 infant deaths per 1,000 live births

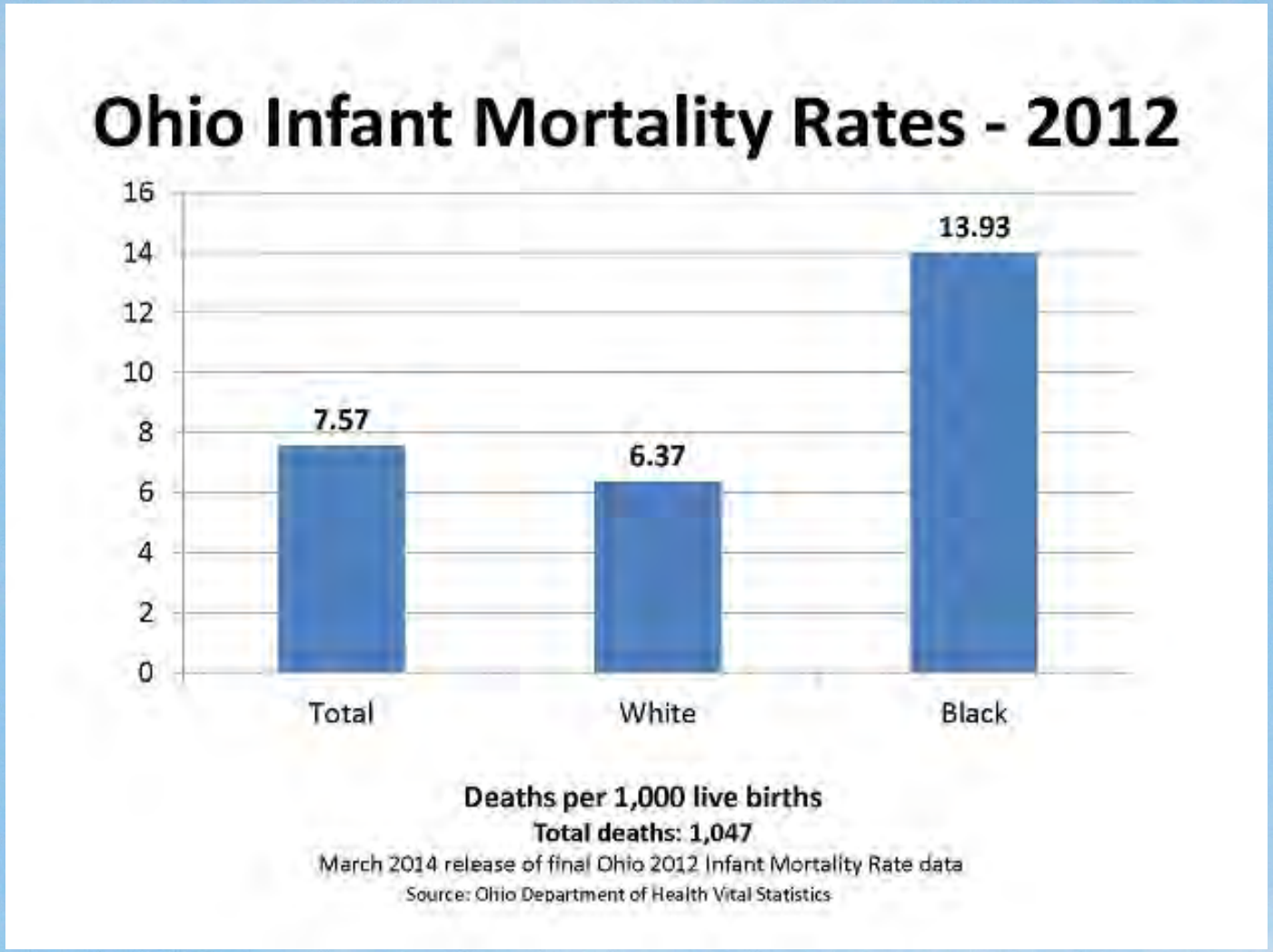
The national "Healthy People 2020" [1] Infant Mortality Rate objective:

- 6.0 infant deaths per 1,000 live births.

Ohio's 2013 Overall Infant Mortality Rate was 23 percent higher than the national rate. Ohio's White Infant Mortality Rate was at the "Healthy People 2020" objective. The racial disparity in infant deaths in Ohio was substantial, with black infants dying at more than twice the rate of white infants.

http://www.odh.ohio.gov/~/media/ODH/ASSETS/Files/cfhs/Infant%20Mortality/2013%20Ohio%20Infant%20Mortality%20Data%20Report%20FINAL.pdf

Exhibit 2



https://www.odh.ohio.gov/odhprograms/cfhs/octpim/infantmortality.aspx

Exhibit 3

http://www.ourbabiescount.org/about.html

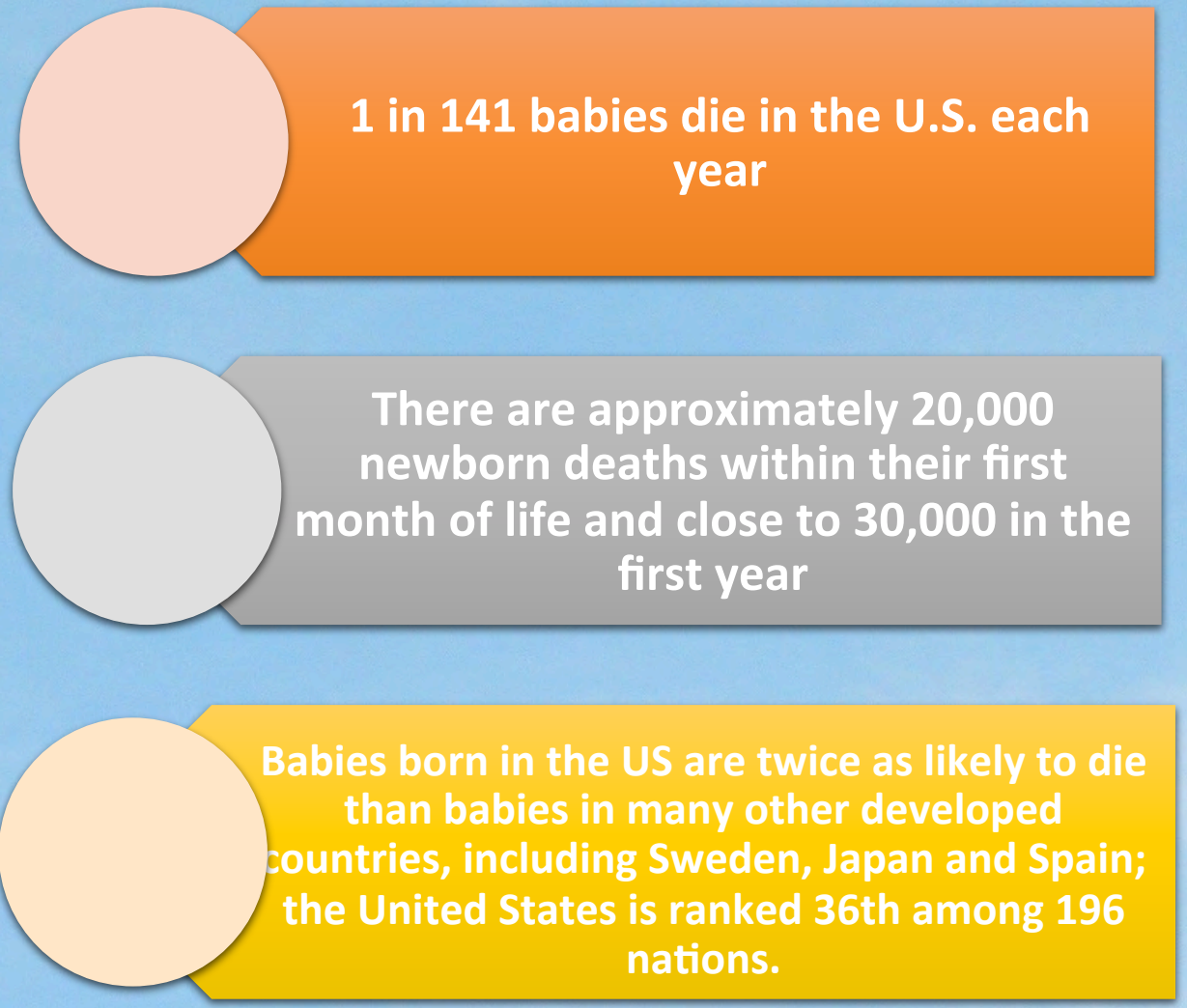
Exhibit 4

http://wvpublic.org/post/ohio-experiences-jump-infant-mortality#stream/0

Session Outline

- Power of visual information
- Importance of research and ideation
- Finding existing infographics and images
- Tools for creating infographics
- Infographics best practices

Activity II: Learn about SmartArt and Edit a Simple Infographic



http://www.rbabyfoundation.org/resources-facts.php

Pregnancy, Birth, and Health (2014): Examples of Students' Work

Diving In:
Presentation Best Practices

Session Outline

- PowerPoint dos and don’ts
- Finding and using quality images
- Importance of research and ideation
- Tools for creating infographics
- Best practices for infographics, brochures, and newsletters

Activity I: Applying Best Practices to Slides

5

6

Consider people with complete or partial color blindness.
Red and green present a problem.

Avoid contrasting cool and warm colors.

7

Use preset color palettes
to choose colors that go together well.
These colors come from the Office theme.
Colors palettes can be found
under the "Design" tab:

8

Avoid gradients: they interfere with visual perception

9

10

When you master PowerPoint
you may want to experiment
with colors and styles.

11

You may feel that changing backgrounds and fonts makes your presentation more exciting.

12

In fact what works best
is visual consistency.

Activity II: Transforming Text into Slides

EATING ON CAMPUS. By: Velazquez, Eric, Joe Weider's Muscle & Fitness, 07445105, Oct2006, Vol. 67, Issue 10
(abridged)
(Tips for guys from bodybuilding nutritional expert Chris Aceto)

College is filled with temptations, and your handy on-campus cafeteria meal plan is no exception. For most freshmen living away from home for the first time (so sweet is the liberation from the watchful eyes of your parents and their broccoli-laden menu), it's easy to load up on more appetizing (and fattening) foods like fried chicken, pizza and all-you-can-eat french fries.

The Freshman 15 isn't exactly a myth. A Cornell University (Ithaca, New York) study showed the majority of men gain 4.2 pounds in their first 12 weeks of college. Women stand to gain nearly twice that amount.

THE USUAL SUSPECTS

Two main culprits lead to the typical metabolic slowdown in college: portion size and food choice.

PORTION CONTROL. "There will naturally be a tendency to overeat," says bodybuilding nutritional expert Chris Aceto. "Most campuses allow access to buffet-style eating, and the ones that don't -- like the majority of eateries in our culture -- serve huge portions."

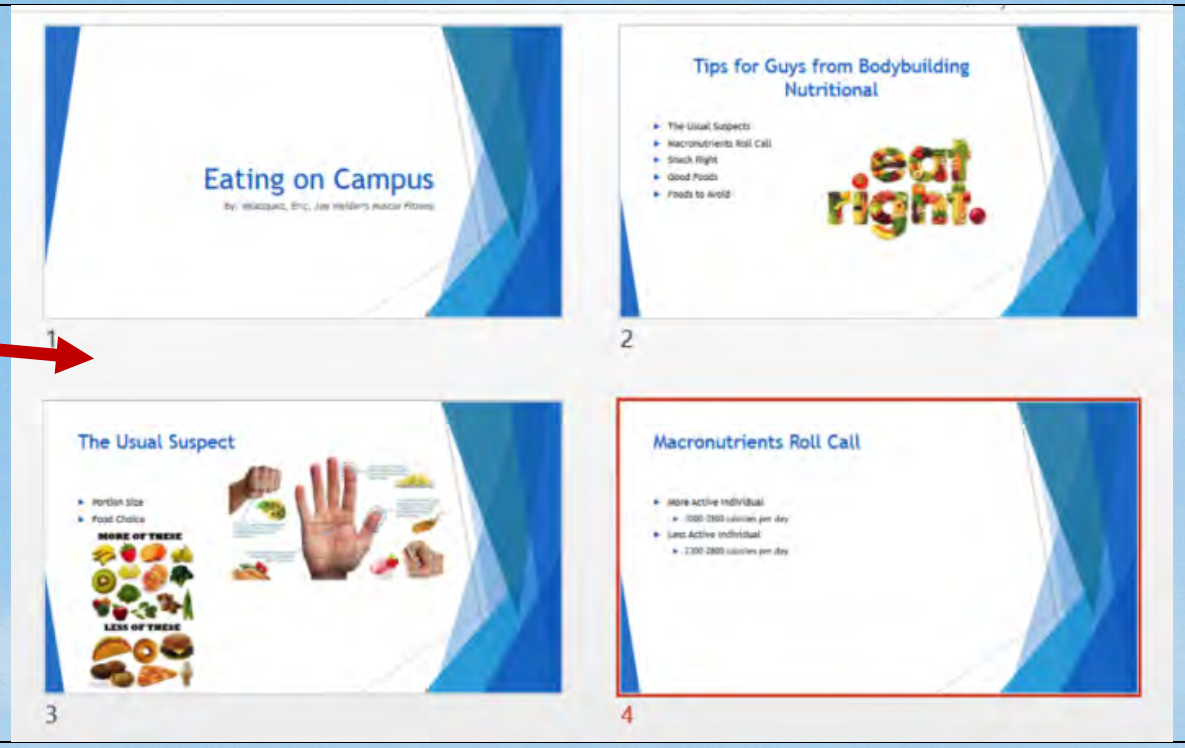
You should be looking at about 2 cups of rice or a medium plate of pasta. To net 6-8 ounces of chicken, lean beef or turkey breast, select one portion slightly larger than the palm of your hand. Watching your portion sizes is the first step toward making the dining hall work for you and your fitness goals.

SELECTION. Speaking of pasta...it's probably not the noodles that are making your jeans tighter. It's the fat- and calorie-laden (however tasty) sauces that do the most damage. And chicken is a great bodybuilding food -- unless it's smothered in gravy or deep-fried into oblivion. Avoid anything fried. Frying can add 100% or more of the caloric value of whatever you're eating.

MACRONUTRIENT ROLL CALL

If you're sticking to your workout program and staying active through on-campus programs like intramurals or intercollegiate sports, then you'll need to keep your calorie count in the neighborhood of 3,000-3,500 per day to maintain or grow muscle. If you're a little less active or trying to get or stay lean, keep the calories to 2,300-2,800 per day.

The most important macronutrient in your diet is protein, and it should make up about 30%-40% of your total caloric intake. Best choices include lean ground turkey, lean steak, chicken breast, egg whites and fat-free dairy products. You can also supplement your diet with protein-packed sides like black beans and hummus.

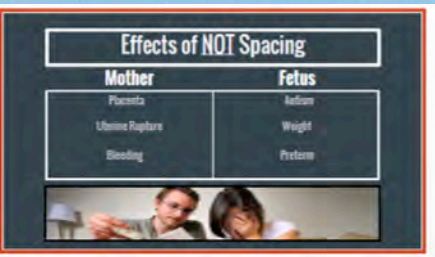


Additional Resource: Page in a Guide

http://guides.libraries.uc.edu/digliteracy/createpublish

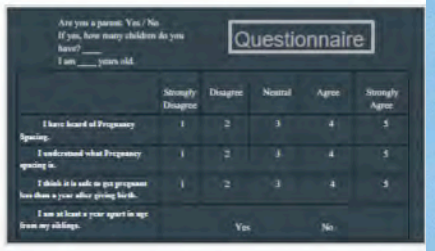
- Tools for creating various types of content
- Best practices for various presentation formats
- Links to sites for publishing content
- Links to selected software tutorials

Pregnancy, Birth, and Health (2015):
Examples of Students' Work

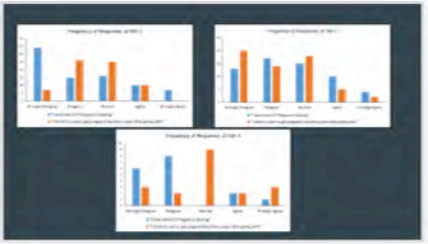


1

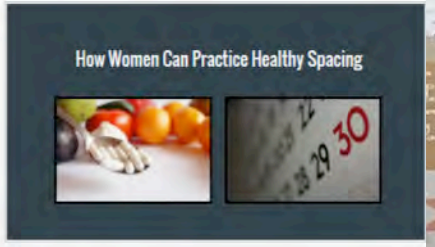
2



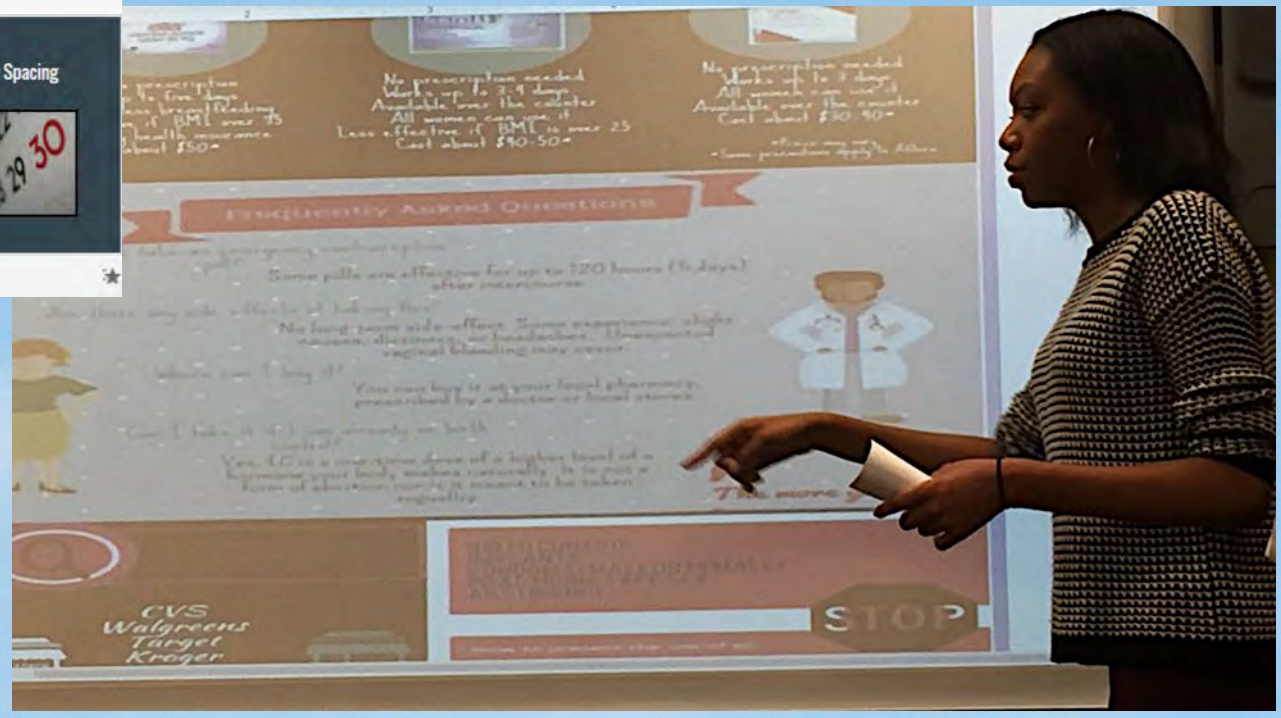
3


5

6



7



Testimonials

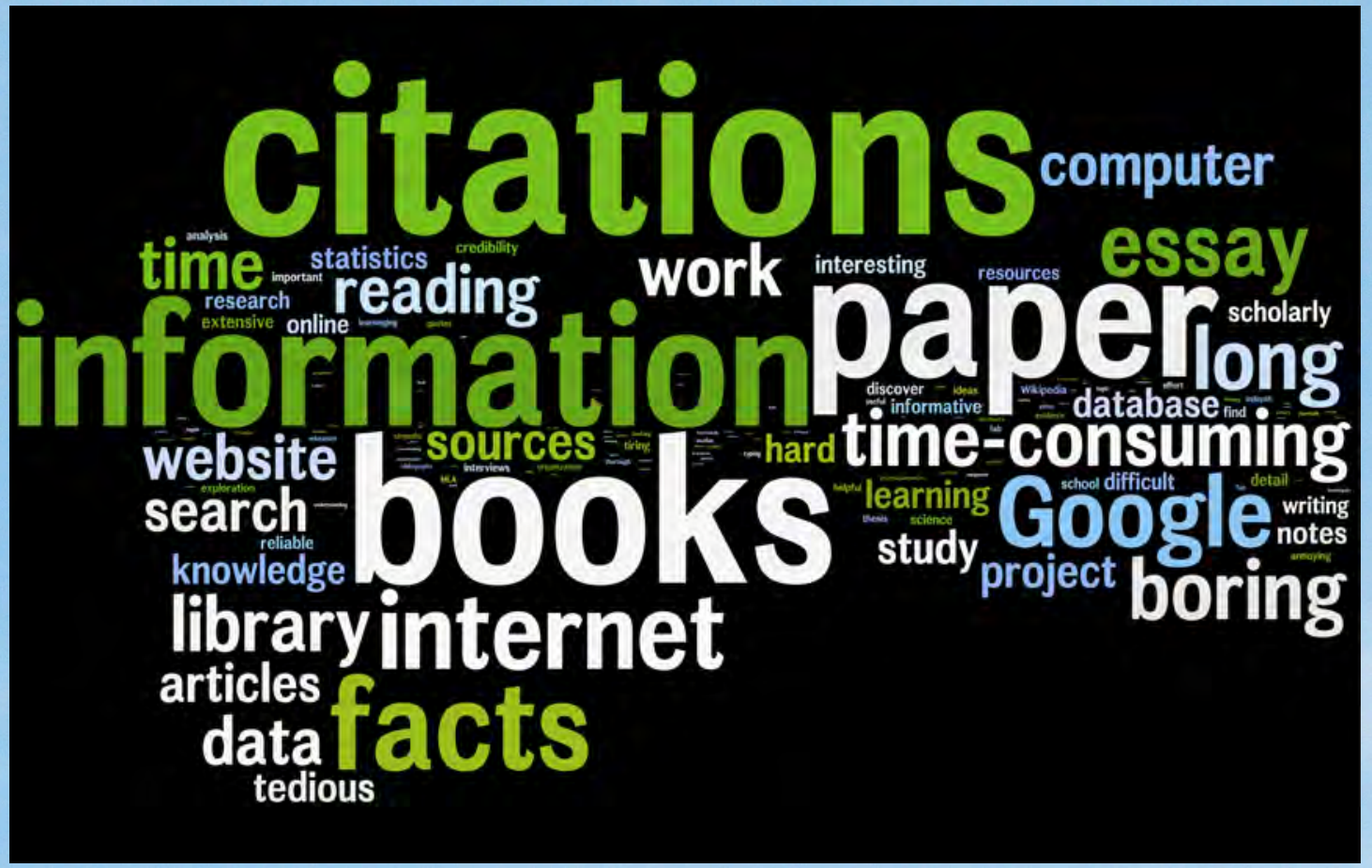
Students

- “Taught us something we have been expected to know.”
- "Knowing the techniques in presenting information in formats such as my slideshow has provided me a way to grab the audience's attention and inform them better of the topic, visually."

Faculty

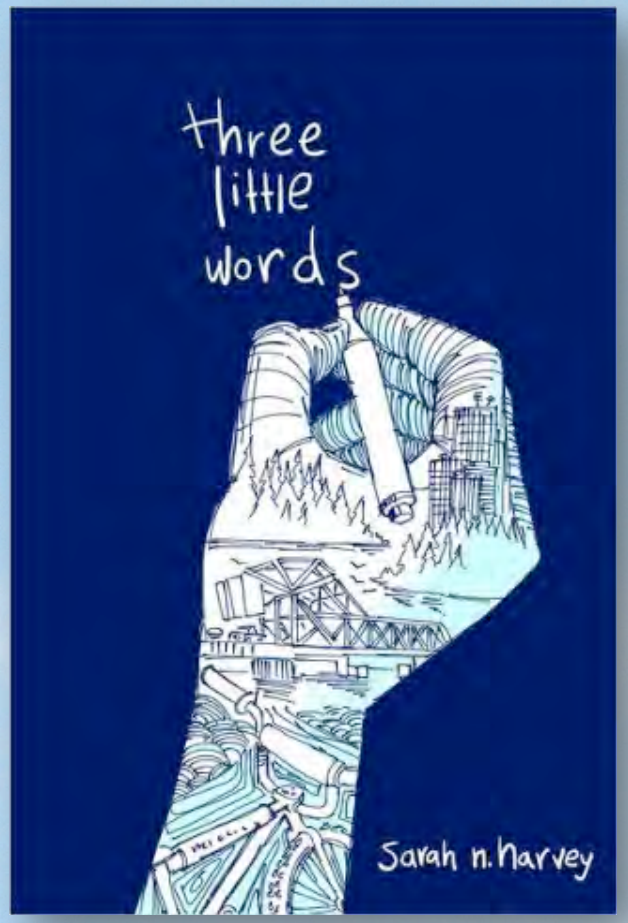
- Included more graphics, fewer words.
- Didn’t read off slides as much.

Research 3 Words: First Year Students



Research 3 Words: Webcast Participants

- http://www.wordle.net/



Any Questions or Comments

Image Credits

http://www.picserver.org/h/high-school.html

https://pixabay.com/en/rowing-oars-team-sport-pictogram-306072/

https://alejandrourtubia.wordpress.com/2012/02/07/cayendo/

https://www.growery.org/forums/showflat.php/Number/664033

http://www.orcabook.com/Assets/ProductImages/0656.jpg

Image Credits

http://www.publicdomainpictures.net/view-image.php?image=3545&picture=stormy-sky

https://www.historicalemporium.com/store/002299.php?eesc=cat

http://www.stanleylondon.com/sext-6inspec.htm

http://www.highlandwoodworking.com/pencilcompass.aspx

http://local.union-bulletin.com/categories/food-and-beverage

Image Credits

http://www.westnh.org/payday-loans-precarious-employment/many-small-light-bulbs-equal-big-one/

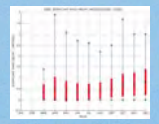
https://pixabay.com/photo-1162757/

https://pixabay.com/photo-1359430/

http://www.kaltura.org/images/Kaltura-Sun.png

Image credits

Modified from https://www.vectorstock.com/royalty-free-vector/rope-exclamation-and-question-mark-vector-818749



http://www.lakeeriewx.com/CaseStudies/GayGamesSailing-2014/GayGamesSailing-2014.html

https://www.pinterest.com/pin/426786502167115889/

Waves PPT (Motion in the Ocean: Waves, Tides, and Currents) http://www.hamilton.k12.nj.us/webpages/aschwing/resources.cfm?subpage=358703

http://mocsa.org/how-help/volunteer

Modified from http://elizabethpresbytery.org/blogs-2/

Modified from http://ux.stackexchange.com/questions/67785/are-stars-a-good-rating-system

Modified from https://www.merriam-webster.com/words-at-play/dived-or-dove-which-is-correct