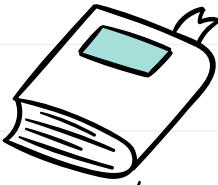
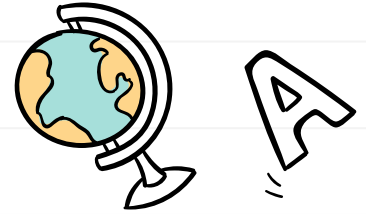
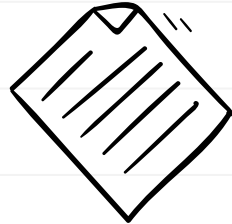


TEACHING RESEARCH METHODS AND STATISTICS:

HELPFUL ONLINE RESOURCES



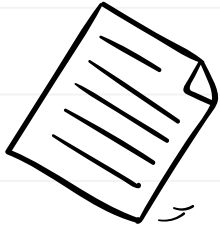
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2



C



INTRODUCTION

Due to the COVID-19 pandemic, many institutions of higher education will be shifting to online or hybrid instruction for the 2020-2021 school year. This shift can be daunting from a pedagogical standpoint.

The Federation of Associations in Behavioral & Brain Sciences (FABBS) **wants to help** instructors preparing to teach a research methods or statistics course.

These slides describe a few online resources that assist educators in creating a more interactive and accessible educational experience for students.

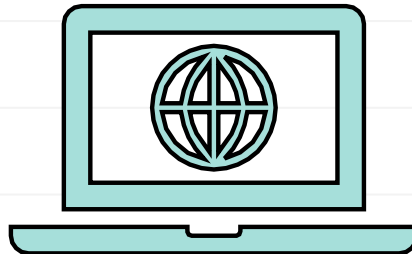


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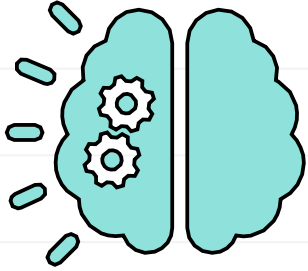


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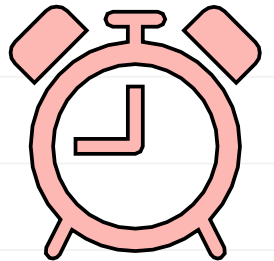
04



Free
Software

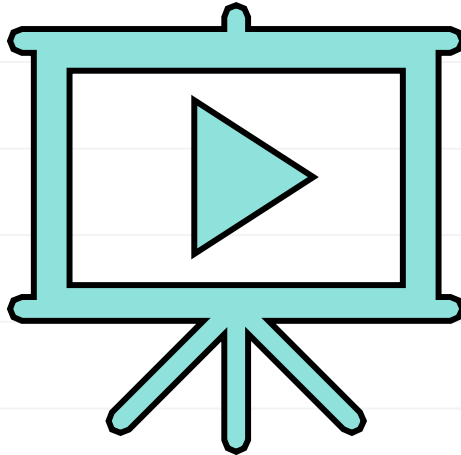


**AFTER 15-20 MINUTES OF
LECTURING, STUDENTS LOSE
FOCUS; PLANNING VIDEOS
AND/OR ACTIVITIES CAN KEEP
STUDENTS ENGAGED!**



METHODS AND STATISTICS VIDEOS

1. TeachPsychScience.Org has a repository of useful videos for substantive and methodological/statistical psychology courses:
 - <https://teachpsychscience.org/index.php/category/research-methods/>
 - <https://teachpsychscience.org/index.php/category/statistics/>



METHODS AND STATISTICS VIDEOS (CONT.)

2. Ted and TedEd talks focused on research methods topics or concepts:

- The mastery of methods (Birte Karoline Manke)
<https://www.youtube.com/watch?v=u4iOeHXObok>
- Not all scientific studies are created equal (David H. Schwartz)
<https://ed.ted.com/lessons/not-all-scientific-studies-are-created-equal-david-h-schwartz>
- Is there a reproducibility crisis in science (Matt Anticole)
<https://www.youtube.com/watch?v=FpCrY7x5nEE>
- How to spot a misleading graph (Lea Gaslowitz)
<https://www.youtube.com/watch?v=E91bGT9BjYk&vl=en>
- Why you should love statistics (Alan Smith)
https://www.ted.com/talks/alan_smith_why_you_should_love_statistics?language=en
- How statistics can be misleading (Mark Liddell)
https://www.ted.com/talks/mark_liddell_how_statistics_can_be_misleading/transcript?language=en
- How juries are fooled by statistics (Peter Donnelly)
https://www.ted.com/talks/peter_donnelly_how_juries_are_foiled_by_statistics?language=en
- How do focus groups work (Hector Lanz)
<https://www.youtube.com/watch?v=3TwgVQIZPsw>

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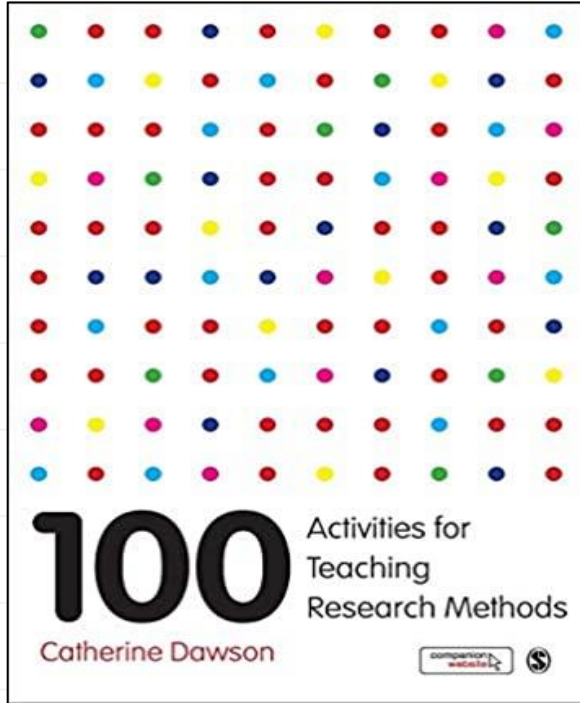


Free
Software

ACTIVITIES

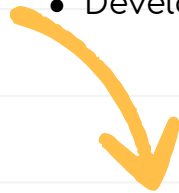
1. Get inspired from previous APA TOPSS Charles T. Blair-Broeker Excellence in Teaching Awards; modifying one of their 2-day lesson plans to work with undergraduate students like this one on thematic content analysis:
 - <https://www.apa.org/ed/precollege/topss/lessons/swanson-lesson.pdf>
2. Browse research methods and statistics activities compiled by the Society for the Teaching of Psychology (STP):
 - <http://teachpsych.org/page-1603066#stats>
3. For higher-level undergraduate or graduate level courses, try some statistics exercises developed by the Social Science Research & Instructional Center (uses SPSS and PSPP):
 - <http://www.ssrc.org/trd/exercises>

ACTIVITIES (CONT.)



4. Peruse Catherine Dawson's 100 Activities for Teaching Research Methods which includes 100 learning activities and step-by-step instructions divided into the following sections:

- Finding and using sources of information
- Planning a research project
- Conducting research
- Using and analyzing data
- Disseminating results
- Acting ethically
- Developing deeper research skills



Sample activities (in part) found here:

<https://us.sagepub.com/en-us/nam/100-activities-for-teaching-research-methods/book248142#preview>

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FINDING DATASETS



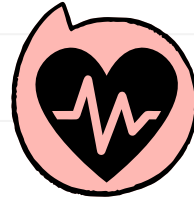
SEARCH GOOGLE

<https://datasetsearch.research.google.com/>



PEW DATA

<https://www.pewresearch.org/download-datasets/>



HEALTH DATA

<https://guides.lib.berkeley.edu/publichealth/healthstatistics/rowdata>



CRIME DATA

<https://www.ucrdat.atool.gov/>



EDUCATION DATA

<https://www.ed.gov/open/plan/data-gov>

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Free
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FREE SOFTWARE TO ANALYZE DATA

1. CHECK WITH IT

It is always good to first check with IT or the appropriate department to find out what is available for free or discounted

2. USE A TRIAL VERSION

If you only need software for a single class, consider having students use a free trial subscription:

- [IBM SPSS Statistics](#) (14-day trial)
- [STATA](#) (1-week trial)

3. GO OPEN SOURCE

For long-term software use without a subscription consider the following open-source options:

- [R Studio](#) or [R](#)
- [PSPP](#) (SPSS alternative)
- [Open Epi](#)

HOPE THESE RESOURCES WERE HELPFUL!

If you have any questions or comments (including any great resources we missed) please feel free to send an email to FABBS at info@fabbs.org

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