Team Teaching, Humor, and Informal Polling Techniques in NECDMC - Based Research Data Management Workshops at Brandeis University

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Team Teaching, Humor, and Informal Polling Techniques in NECDMC - Based Research Data Management Workshops at Brandeis University

Melanie Radik, Gina Bastone, Raphael Fennimore, and Brian Haungs

Introduction
Spring semester 2015, Brandeis Library & Technology Services Research and Instruction unit launched research data management workshops based on the NECDMC curriculum. The workshop lesson plan was very structured and closely modeled the NECDMC modules. The one-hour workshop was expected to consist of three sections:

- Co-presented material in unscripted lecture format
- NECDMC module's hands-on exercises
- Student-lead Q&A time

In no workshop did we get to the hands-on exercise. This was due to the attendee’s confusion over lecture material and their questions on topics outside the scope of the workshop. We determined our descriptions of the workshop didn’t best convey the topics covered, and our emphasis on theory and best practices left listeners confused as to how the information applied to their own research.

However, we felt there were discussions with attendees highlighted areas we could improve for the Fall semester’s iteration of the workshops. We conducted research into pedagogical techniques that would complement the material and mix of attendees. We came to the conclusion that three techniques could be incorporated to improve student engagement and material comprehension, and these techniques would complement a shift in focus from theory and best practices to best practices and Brandeis-specific solutions.

Team Teaching
One pedagogical technique we pursued was inviting instructors from another discipline to teach the workshops with us. We partnered with colleagues from the Technology Help Desk and Data Support sections from IT. The Desktop Systems Specialist, from the Hardware Repair Shop and the Help Desk Interns. Their strengths in the areas of storage, backup, and security solutions were especially relevant.

Collaborating on slide and lecture design alone provided valuable insights into the different approaches to research data management services. We were able to add depth of technical detail, whereas in earlier workshops the best we were able to provide was advice on further reading.

Our colleagues from IT expressed similar interest in the librarian approach and felt themselves better prepared to field data management questions that range beyond traditional IT areas.

Informal Polling
Extremely informal – no stickers or signs, just several deliberately phrased yes or no questions placed throughout the workshop.

We encouraged attendees who indicated they had personal experience with the topic to share their stories. We instructors had our own anecdotes to share, with the IT professionals contributing a wealth of user stories from adventures in desktop support and hardware repair. Did you know it’s possible to acquire internal water damage to your laptop’ hard drive in high enough humidity? And did you know that it is possible to acquire internal water damage to your laptop’ hard drive in high enough humidity?

This deliberately interactive style resulted in varied captivating attendees who had questions relevant to the material, actively shared anecdotes, paid attention to the screen, and demonstrated engaged body language.

Works Consulted

Humor
Humor works as a pedagogical tool in a tricky business, as it is quite possible to do more harm than good. Between the subjective nature of humor, the fleeting duration of pop culture references, and the jargon-like qualities of subject-specific humor, using humor to enhance student learning is difficult.

After

Conclusions
While we did not have a large enough sample size to perform rigorous evaluation of learning outcomes, we can state that student engagement during the workshop was noticeably greater, their questions were more on topic, and showed true understanding of the material and its relevance to their personal research.

We even have evidence of attendees applying this knowledge. One attendee, who from comments and questions made it clear she had never performed a backup of her main laptop, was astonished to learn that Brandeis sells heavy-duty desktop external drives equipped with Rับbit, a third-party backup software. He approached the correct service point later that day to acquire one. This attendee found himself in our workshop completely by mistake – he indicated on our workshop sign-up sheet that he intended to attend a workshop on Stata, running concurrently in a different classroom.

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We count this as all kinds of success.