



ANY SHAPE OR FORM: AN ONLINE MODULE FOR TEACHING MEDICAL STUDENTS CITATION MANAGEMENT IN RESIDENCY SETTINGS



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Introduction

In early 2017, the medical library was asked by undergraduate and graduate medical education faculty to create a citation management tutorial for 4th-year medical students preparing to commence their respective residency programs. As part of the College of Medicine's Residency Preparation Boot Camp, the tutorial needed to provide students with an overview of citation management tools that could be used at a variety of different institutions depending on access and availability. It was also requested that the tutorial include free or low-cost citation tools.

To meet the need, two librarians collaborated to create "Introduction to Citation Management Tools," an online tutorial consisting of 14 slides using Springhare's LibWizard Tool. The tutorial was completed by the end of March 2017 in time for the College of Medicine's Residency Boot Camp workshop. A link to the tutorial was added to the Residency Boot Camp LibGuide created by the medical library. Passing the tutorial is required of all students completing the Residency Boot Camp.

Methods & Tools

First, the current field of citation management tools was evaluated to see what would be the most appropriate to include based on the time and limitations of the project. A decision was made to highlight two different tools: EndNote and Zotero.

An outline was created of possible content areas with each librarian dividing up the task of creating slide content, incorporating screen captures and creating assessment questions for each group of slides. Each librarian also claimed EndNote or Zotero and focused on developing content for those sections.

A total of 14 slides were created consisting of text, video, images, screen captures, and required assessment questions. Slides were grouped under the following sections: The Basics, Comparing Citation Management Tools, Exploring EndNote, EndNote Features including Find Full Text and Cite While You Write, Exploring Zotero, Zotero Features such as Adding References and Creating a Bibliography, and Practice with Zotero. Due to limitations with providing a live EndNote demo, a practice session in an open Zotero group was included instead.

Once published, the tutorial was tested by other librarians and selected library users in the College of Medicine. Each year, the module is reviewed again and tweaked based on feedback from users, and updated as needed.

Tools Used to Create the Module:

- **LibWizard Tutorial**
- **Camtasia** for screen recordings of EndNote and Zotero features
- **Snagit** for screenshots
- **Canva** for graphics and images

Creating the Tutorial

Image 1: Using Camtasia to record the steps of EndNote's Find Full Text feature

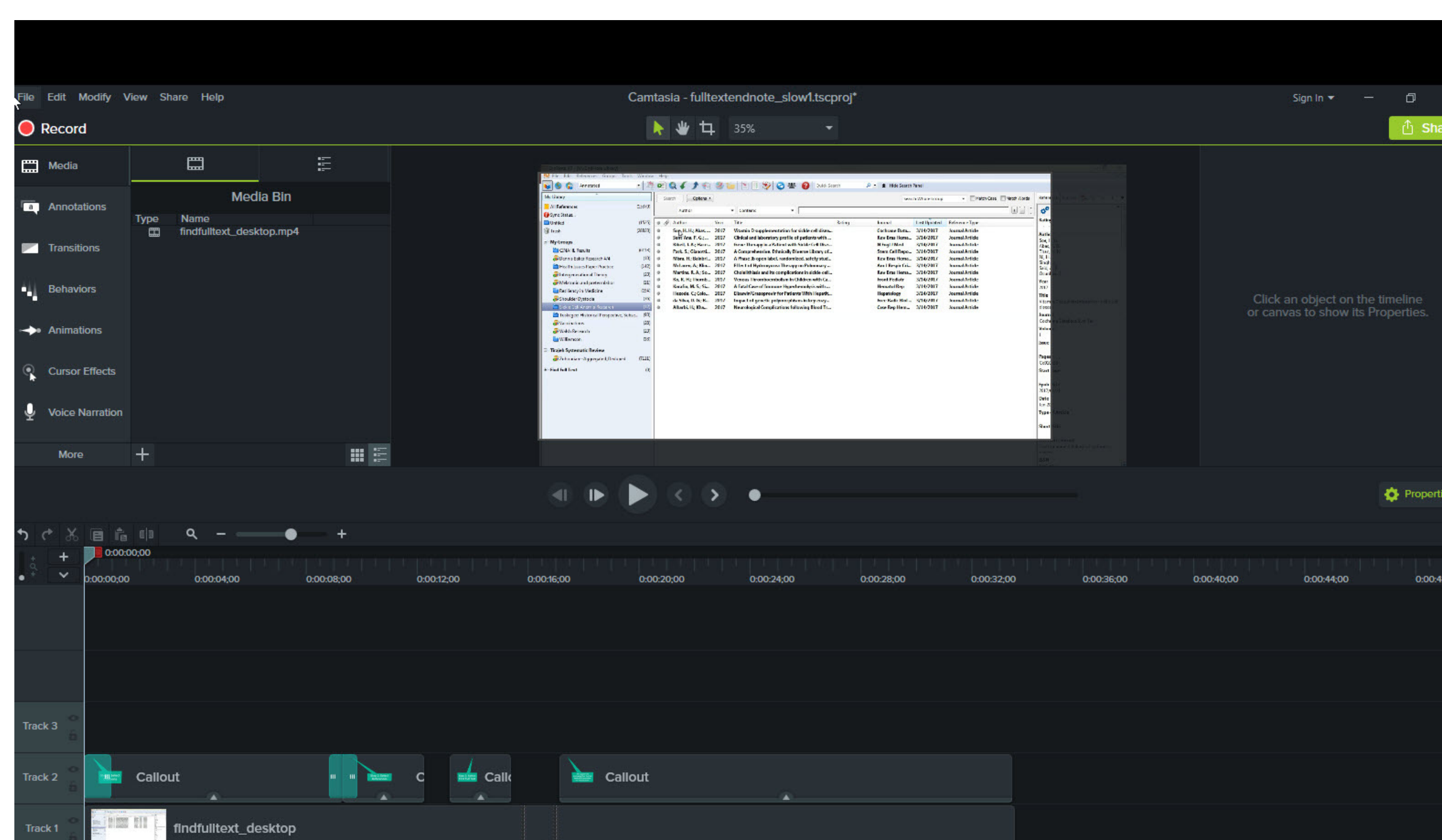
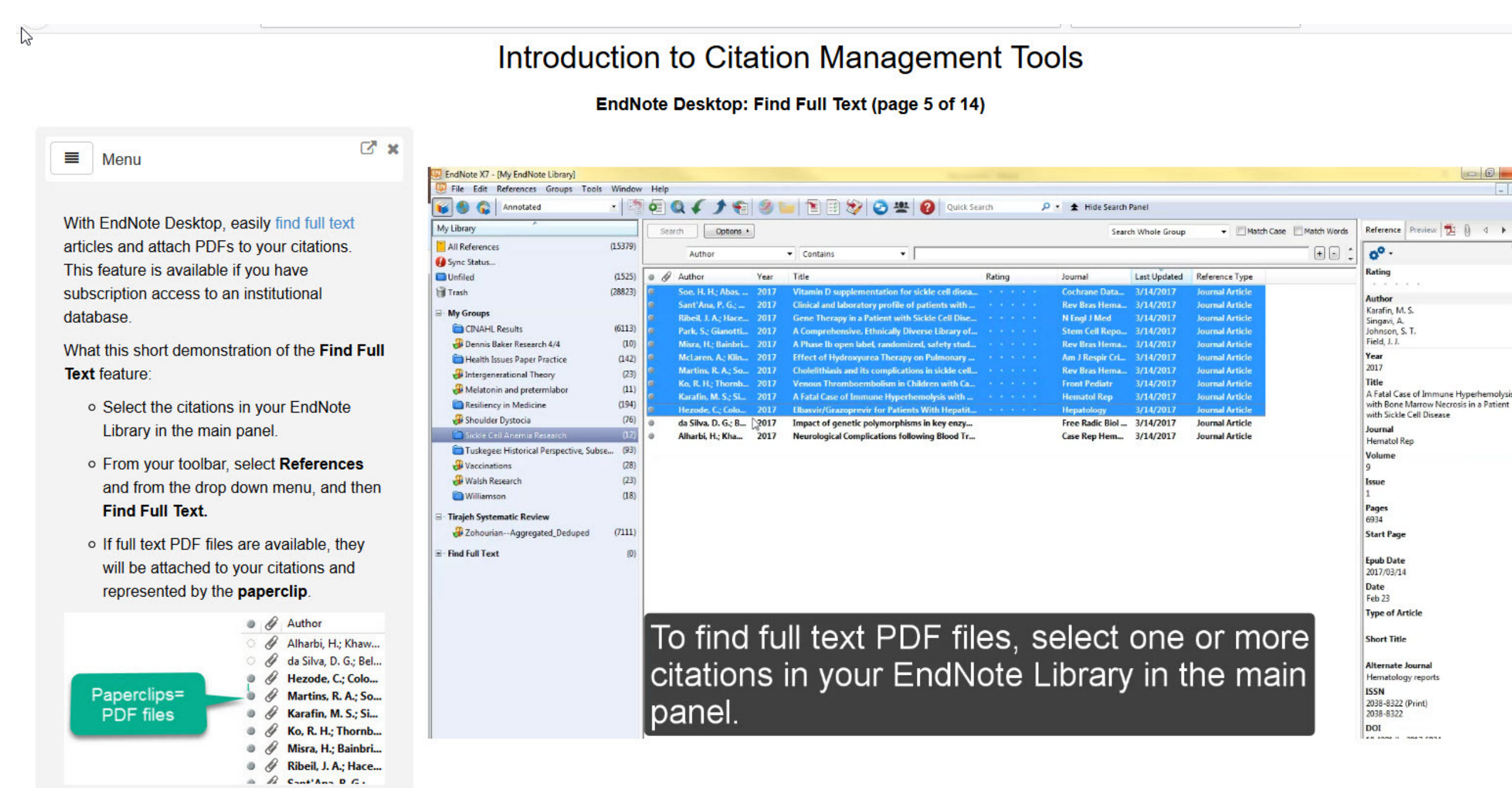


Image 2: EndNote's Find Full Text embedded in the Tutorial.



Discussion and Conclusion

Reception of the tutorial has been positive from students who have taken the tutorial and from faculty involved in the Residency Boot Camp. The library was asked to include the tutorial for students in 2018 and 2019. Based on the critical student feedback from the first tutorial in 2017, several tweaks were made to improve the tutorial for 2018:

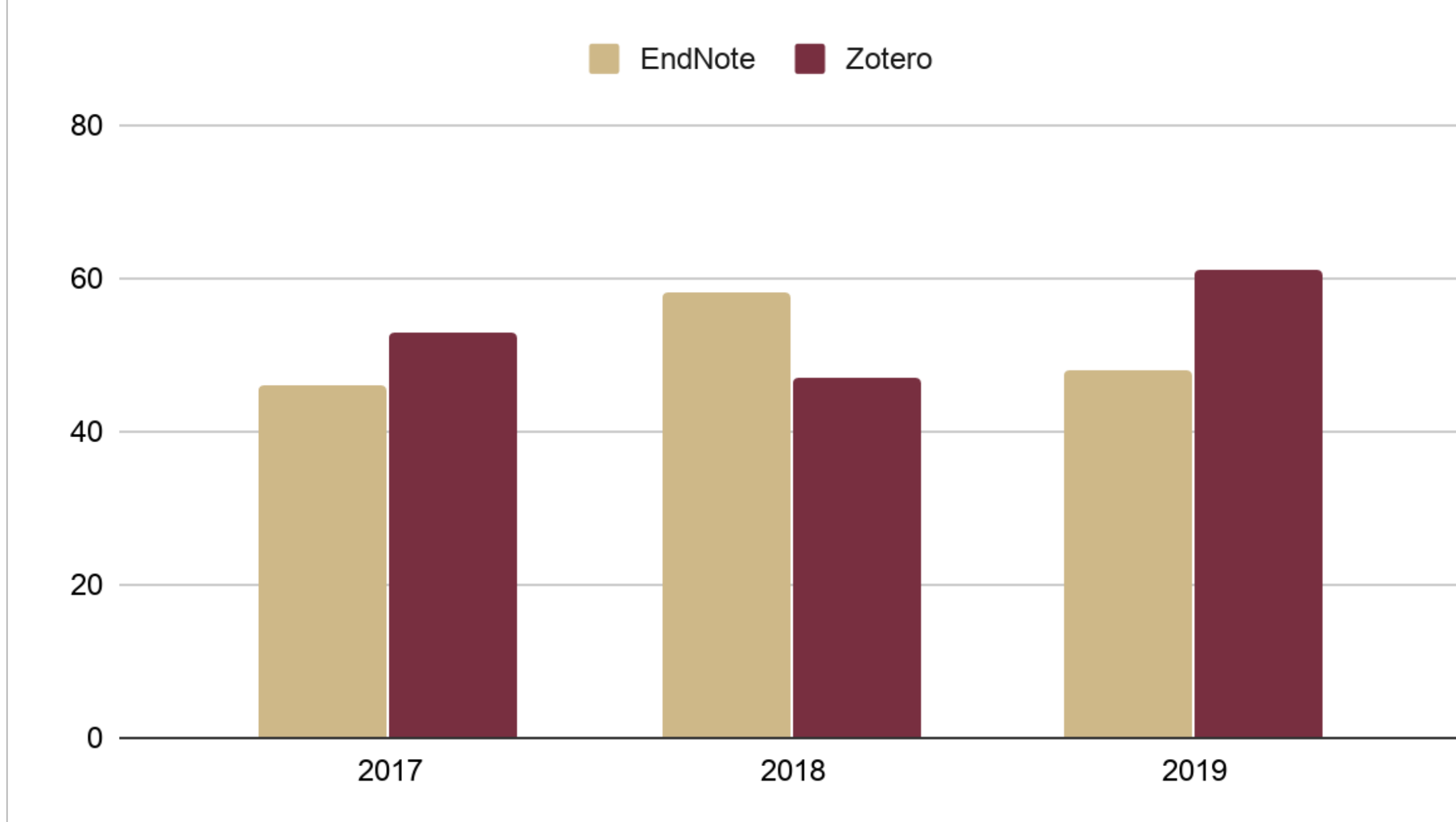
- The video captures for EndNote and Zotero were tweaked to go a little slower and allow users to follow along.
- Content describing EndNote and Zotero's features were clarified.
- A review of all assessment questions were made and adjustments were made as needed.
- Links were updated as needed.

For 2019, the librarians reviewed the tutorial and also sent it out for additional feedback to selected library users in the College of Medicine. In addition, any links and other information were updated. For the future, we hope to continue refining and adapting the current tutorial as needed, while exploring additional opportunities to use this technology in other subject areas.

Results

- From 2017-2019, 349 M4 medical students have taken the tutorial each year.
- Survey Question: What is One Thing You Learned from this Tutorial?
 - 44.5% learned more about Zotero
 - 30% learned more about citation management tools and options.
 - 23.6% learned more about different citation tools and the differences between them.
 - 1.8% learned more about EndNote
- Survey Question: After learning about EndNote and Zotero, which one would you prefer to use and why?
 - 2017: Zotero (53) vs. EndNote (46)
 - 2018: EndNote (58) vs. Zotero (47)
 - 2019: Zotero (61) vs. EndNote (48)

EndNote or Zotero: Which One Would You Prefer?



Student Feedback on Tutorial from 2017:

Positive:

- Great use of videos!
- I liked this tutorial! Very informative, and did not take much time to review.
- I wish we had learned about Zotero earlier in our medical school career.
- Informational tutorial.
- This was great to know especially for those leaving the FSU system who will need a citation manager

Critical:

- Audio on videos did not work and would have been very helpful
- Do not make students do these modules next year.
- This tutorial was a little harder to follow- it doesn't have sound on the clips
- This was not a valuable use of my time in preparation for residency. I will have to learn to use one tool based on my institution and will not be the one responsible for purchasing them.

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