Analysis of the Back-end Data from the Mediasite Platform

(at Kansas State University in 2017)

#LMSPreconference of #SIDLIT2018 August 1, 2018 Overland Park, Kansas

Objectives

- To see
 - what is knowable from back-end Mediasite data (from Jan. 2017 Feb. 2018),
 and
 - how this information may be used to improve teaching and learning at K-State

Some Common Uses of Mediasite at K-State

- Faculty and staff recording of lectures, demonstrations, labs, trainings
 - At their desks (on their desktops)
 - In smart classrooms
- Student recording of videos ... as assignments
- Sharing of videos on the Canvas LMS, the Web, the Internet; embedding of videos in online surveys, e-books, and other venues; the creation of video channels for interdisciplinary areas of study (shared by multiple faculty and staff)

Selection of Mediasite by K-State

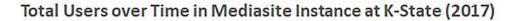
- Adoption of Mediasite™ from Fall Semester 2015 to present to achieve the following:
- 1) support desktop screen capture
- 2) stream videos
- 3) manage its video holdings

Some Video on Mediasite Data (in K-State Instance)

- Video contents
 - Duration range: 0:00:00 to 4:04:38
 - Average video length: 31 minutes and 44 seconds
- 1,285 unique folders
 - One video in a folder to 109 (min-max range)
 - College of Engineering with the main numbers of unique folders

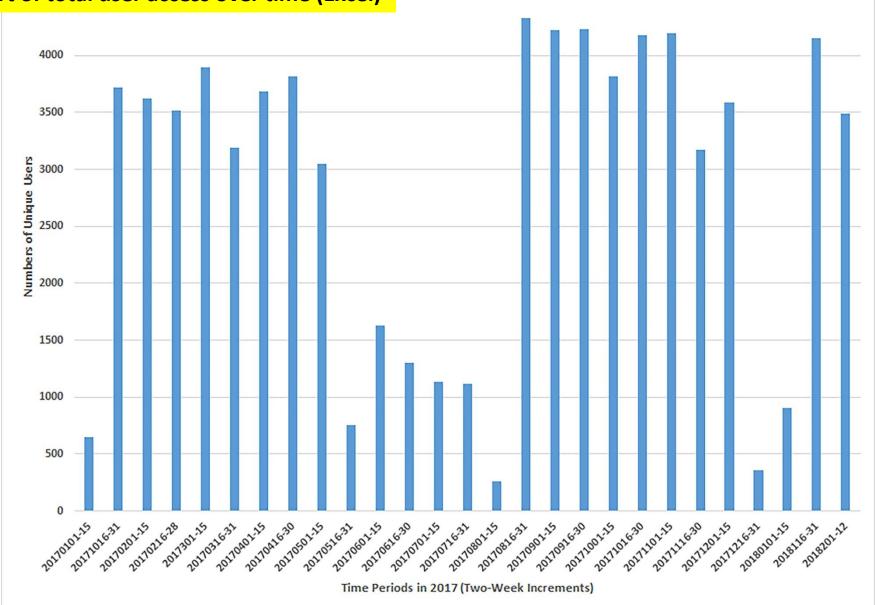
Data Visualizations

from the Mediasite data tables from K-State

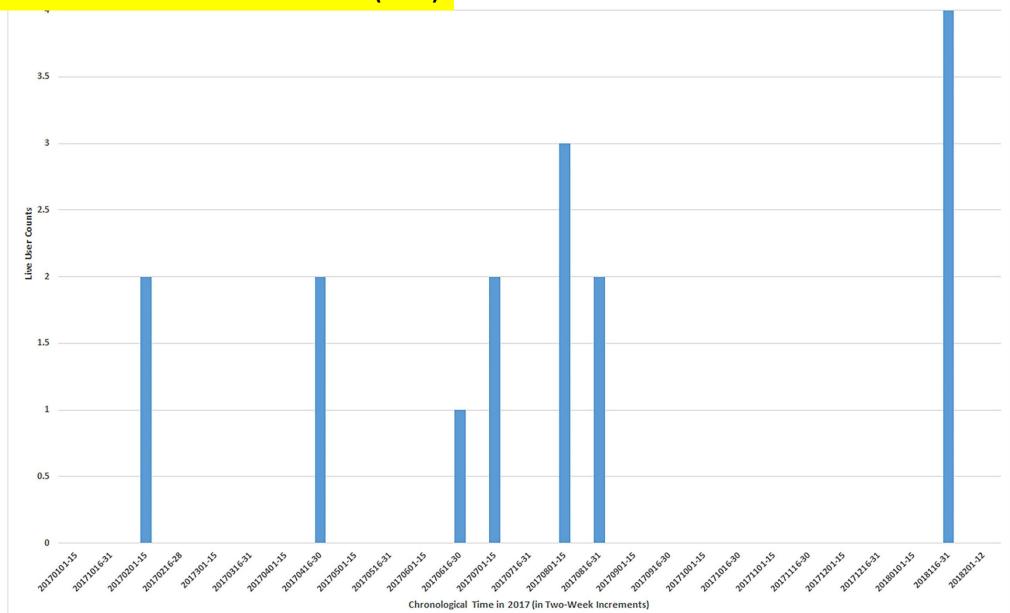


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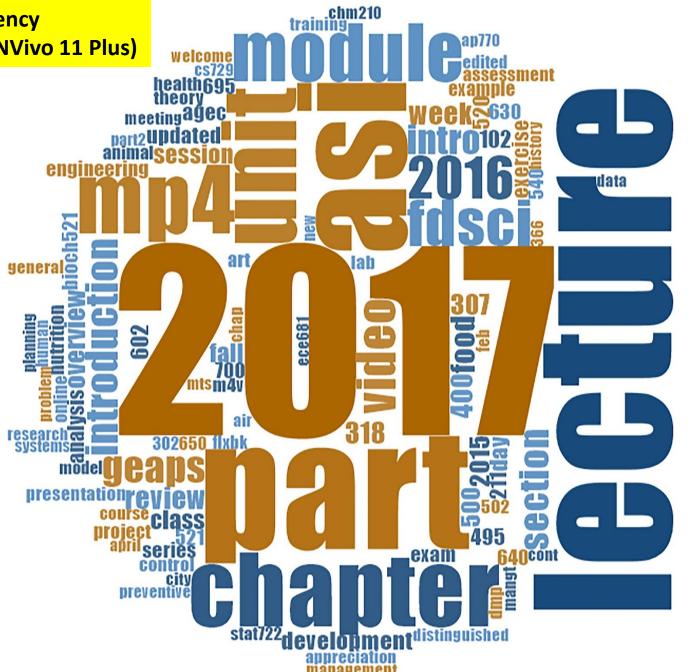
Vertical bar chart of total user access over time (Excel)



Vertical bar chart of live user access over time (Excel)



Word cloud from a frequency listing of viewed videos (NVivo 11 Plus)

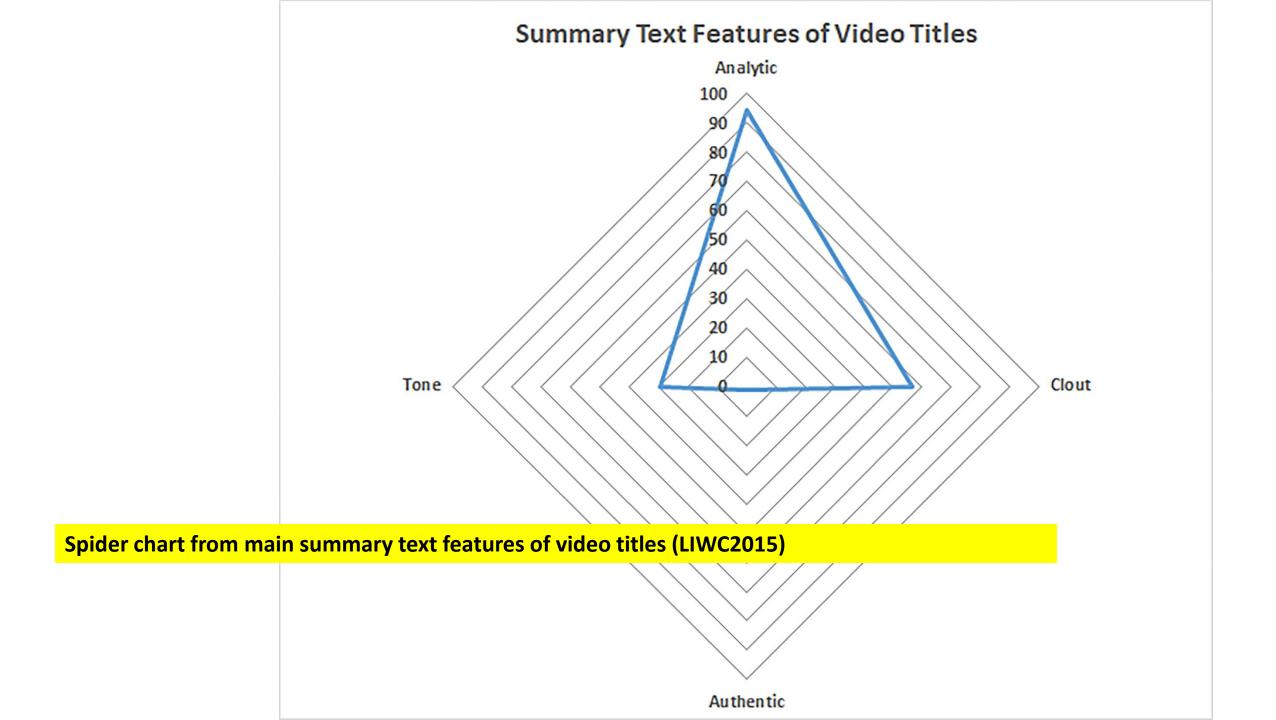


Word cloud from a frequency listing of viewed view videos (with content type words in the stopwords list... to get closer to the video topics) (NVivo 11 Plus)



Treemap diagram from auto-extracted themes (topic modeling) and subthemes from the video titles listing (NVivo 11 Plus)

module					unit			introduction	
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			10)2 reproduci top		- in	HptS video chiSpt4		



Word tree for all instances of "training" in the video titles data set (NVivo 11 Plus)

318 Section 1 A

4: Gel Filtration Chromatography

400 Introduction - Syllabus 1192012

5 Bank Reconciliation Basics

500 - Violence and Media

650 ADT Proposed Rule

9 Part 6 972012

Air Permit Overview - 23NOV2015

ASI 640 Lecture 19

BIOCH265 - Review021317 BIOCH265 - Review022017

BIOCH522 - Labs 13 - 15

BIOCH522 - Labs 9 & 10

1.17

BIOCH265 - Lecture 030317

Bond Risk

CH 08 Annuity Due

Defenses 599 - GMO - F16

Introduction NE 495 01

Introduction to Week Three

Lecture 22 : Enzyme Inhibition

Lettuce Unintentional BIOCH265 - Lecture012517

Management An Inconvenient Truth

and Management -

and Managment

➤ Part 2

Metabolic Concerns

Student Pre - Arrival Webinar

- 05 - 22 -

- 10 - 11

. 40 . 45

2016 - 05 -

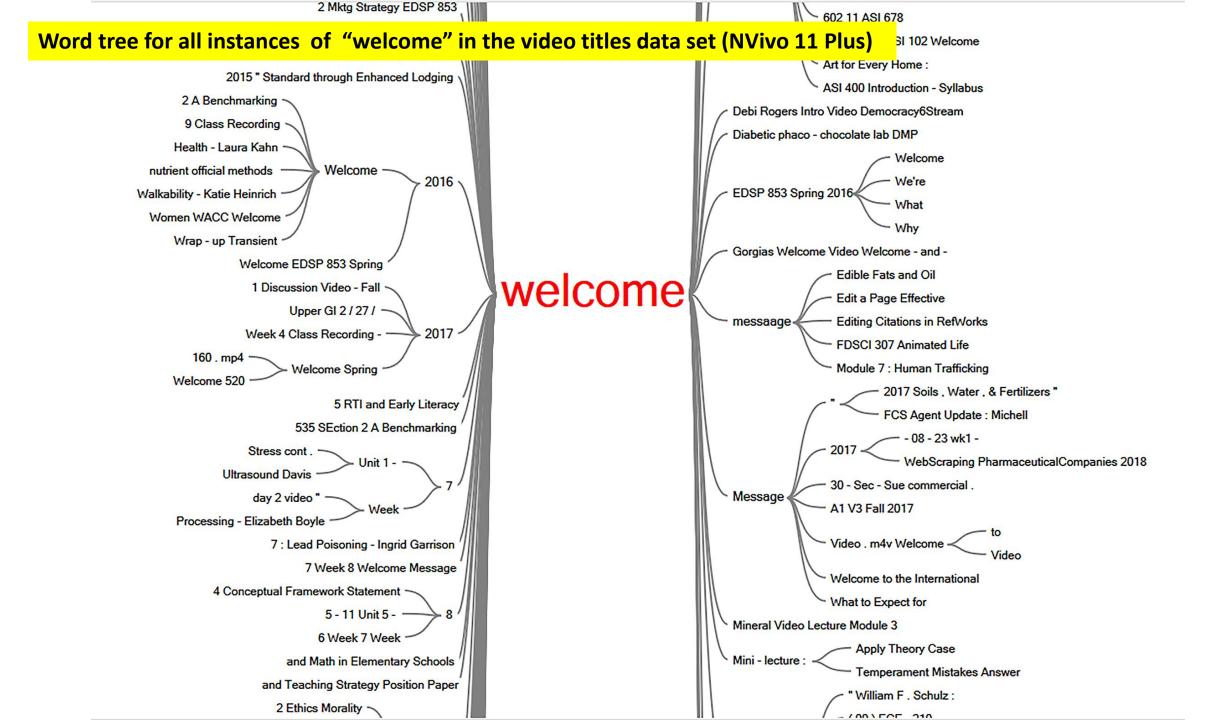
Canvas

training

Blueberry Yogurt Part 1 " Brainstorming: Bob Dole Bonnie Rush Born Bosnia Brainstem Stroke (Fager) "Brainstorming: BPC Training Brain Development "Brainstorming: · Brachial Plexus " Brainstorming : Maximizing Learning Brainstorming: Maximizing Learning **Brain Development** Breeds 521 1 Breeding ASI 521 c24 - Lec18 -Brief Lecture on Using Model c02 - Exp1 - 1 Radiation heat c05 - Lec4 - 1 c06 - Exp4 -Canine Axial Skeleton proj Canine Case 4 speaking tasks CanineOHE-CE874 8 / 29 / 2017 Chapter 1 Part 1 Cardiology - Dr. Justin Thomason 2016 case 00072435 Categorical Imperative Cattle Casey Self - 2015 Annual Conference Cat Exam Cattle Handling Principles Cattle Handling Principles Chapter 1 CE 874 - 09 / 29 / 17 CE530 6 / 21 / 2017 CE537 U14 CHE670 - 02 - Hutchinson -Veil of Ignorance 025 -E - OPT Apply2 Equilibrium Points Lecture 10 General Biochemistry: Edu -1-3 Lecture Lecture 10 - Wheat and CS551 8 / 31 / 2017

BIOCH522 - Lecture 8 : Polymerase Word tree for all instances of "lab" in the video titles data set (NVivo 11 Plus) BloodCollInjections C2 Exam 2 Body Composition (cont.) CE874 Cognitive Theory . All introduction Color Part 6 9182012 BREGMAN DIVERGENCE VIDEO . mp4 complete the essay questions Nerve and 10 Equine IV: Formatting and Polish Preventative of Student Learning Barley lec5 . m4v Lecture Part 1 2nd ed Phase Part 2 3142012 8: Conservation Polish BIOCH522 - Lab 7 Molds Obvs Exposure presented by Patrick Combs Optimization Examples Bacillus Sept . 11 , 2017 " ASI510Chapter6 03 - WW2 Origins . mp4 lab Technologies in Animal ID Waste Management Lab ch1lec3 Chapter 1 Marketing's Value - IntellectualProperty Chapter9 - Contracts - Intro Week 3 Class Recording **CHE650** and Environment - Richard Nelson Abdominal arteries Abdominocentesis " AC2017 Q & Chapter 8 (Part 2) AGEC 700 1 . 1 ANS Day26 IntrodB **ALIVE INSIDE AP770 9 / 25 /** Day29 Discussion of Part 2 Decision2 - 2 -FDSCI-630 Two Welcome Diabetic phaco - chocolate 690 violence . mp4 FinancialTherapy Homework and Food Fermentations Don Kurtz and Travis Linneman Folds and / 2017 Formal Caregivers Dr . Rozell Exercise Physiology Exam IMSE785 2 / Apply3 E - OPT Conclusion Introduction to - OPT Intro AP770 8 / 23 / 2017 AP770 Intro 2 **Equine Castration** Equine Applications of Single CF TVM Points EPs Archived: GEAPS 550 L2 Archived: Gains from Trade 30 500 Introduction - Chapter 1

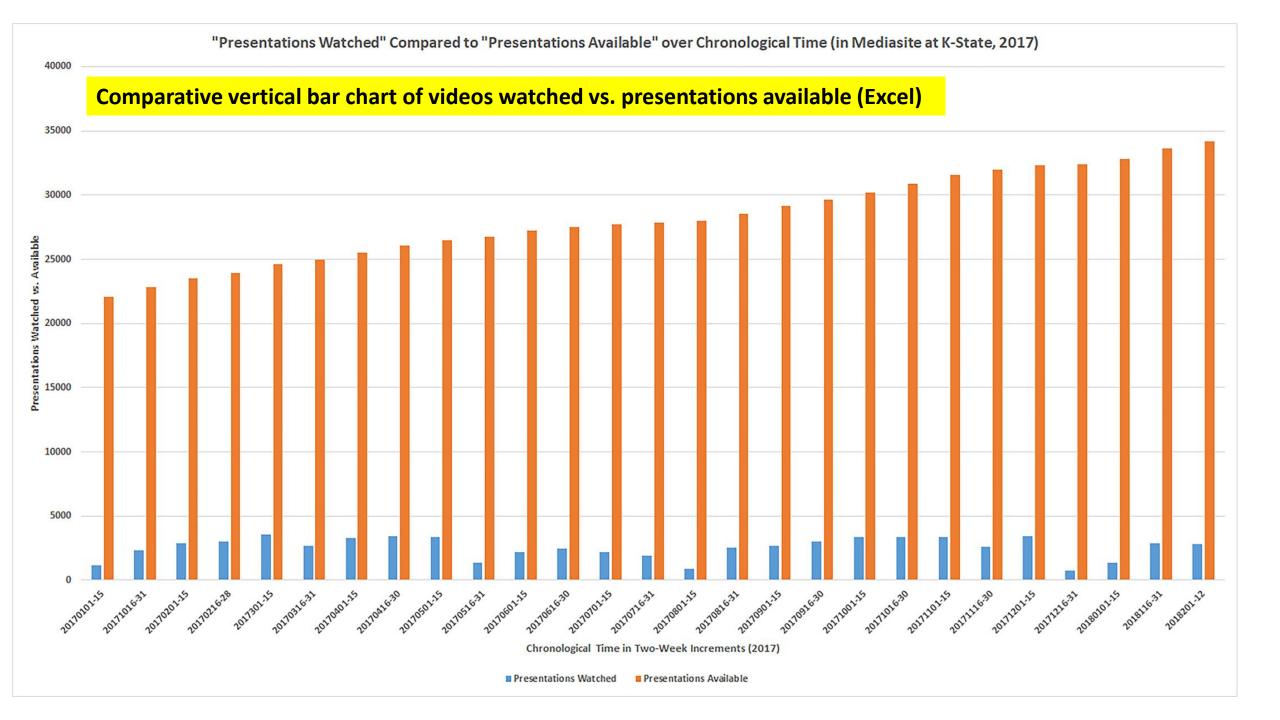
14



Video Watching Behaviors

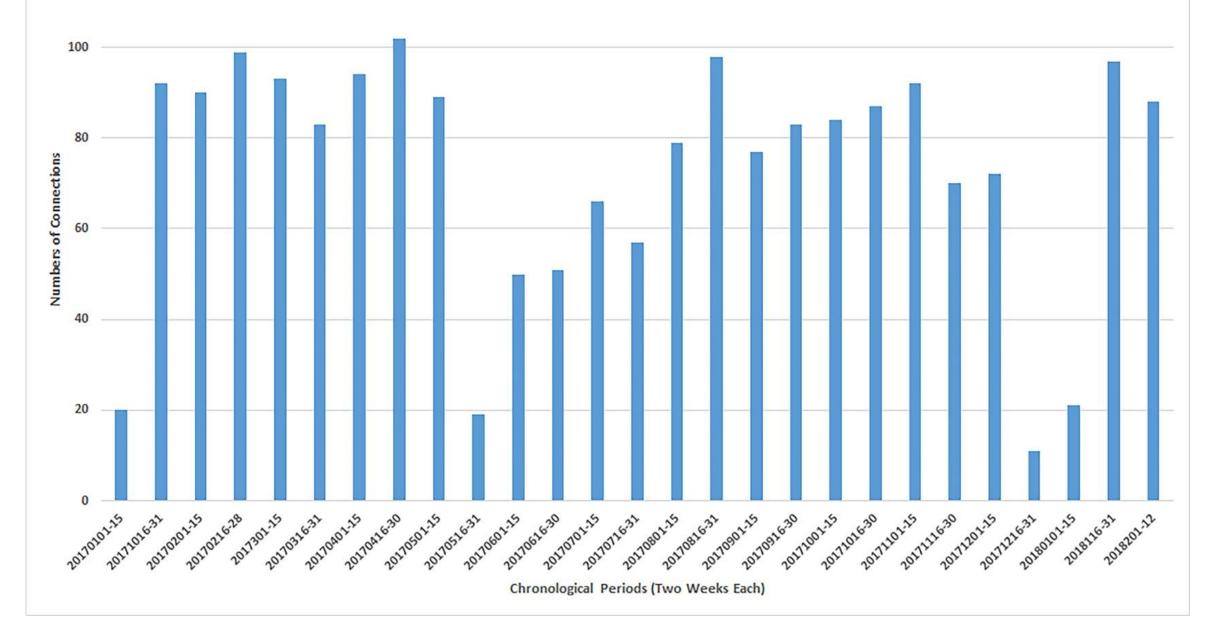
9% of available presentations watched at any one time

2,557 videos watched at any one time period, and an average of 28,238 videos in holdings 90% of holdings not used in any time period



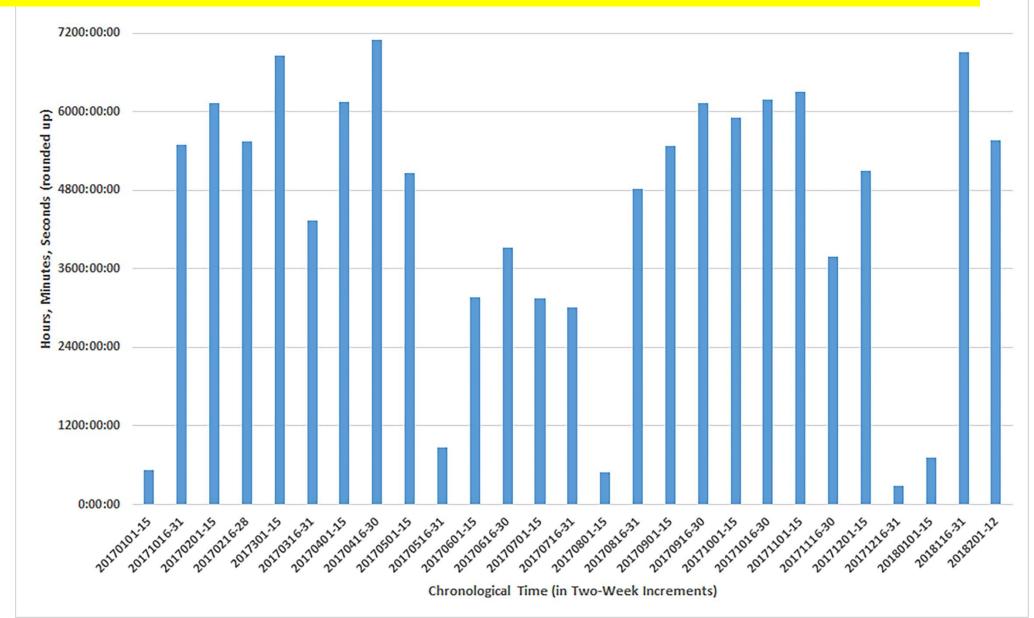
120

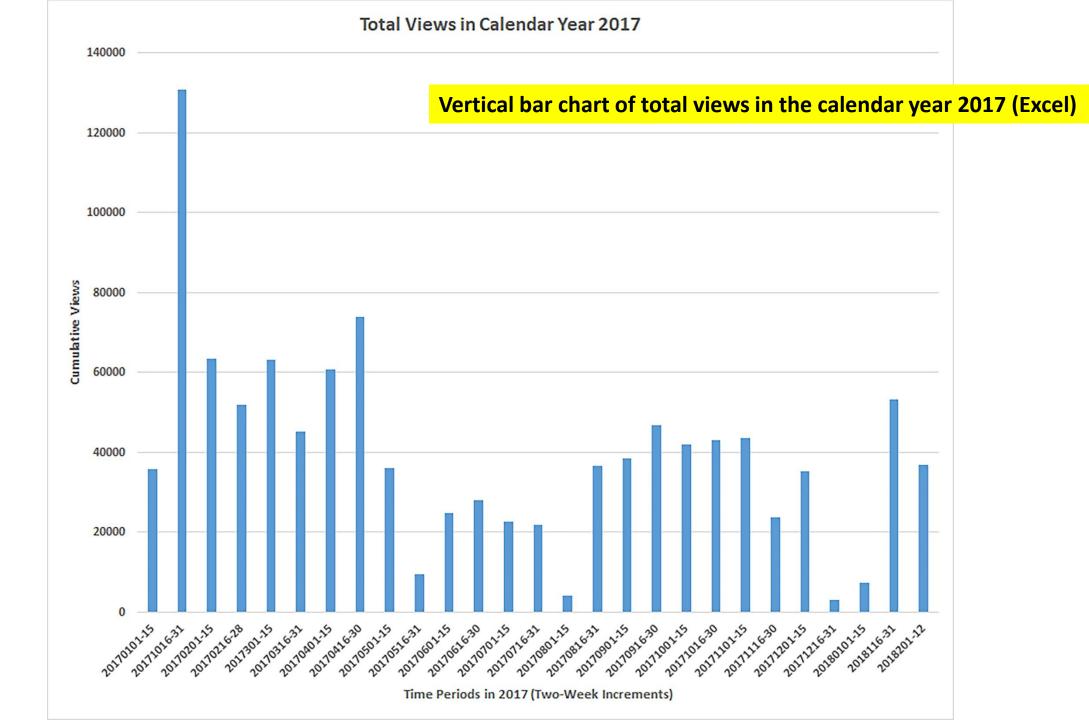
Vertical bar chart of peak connections in 2017 (over chronological time) (Excel)

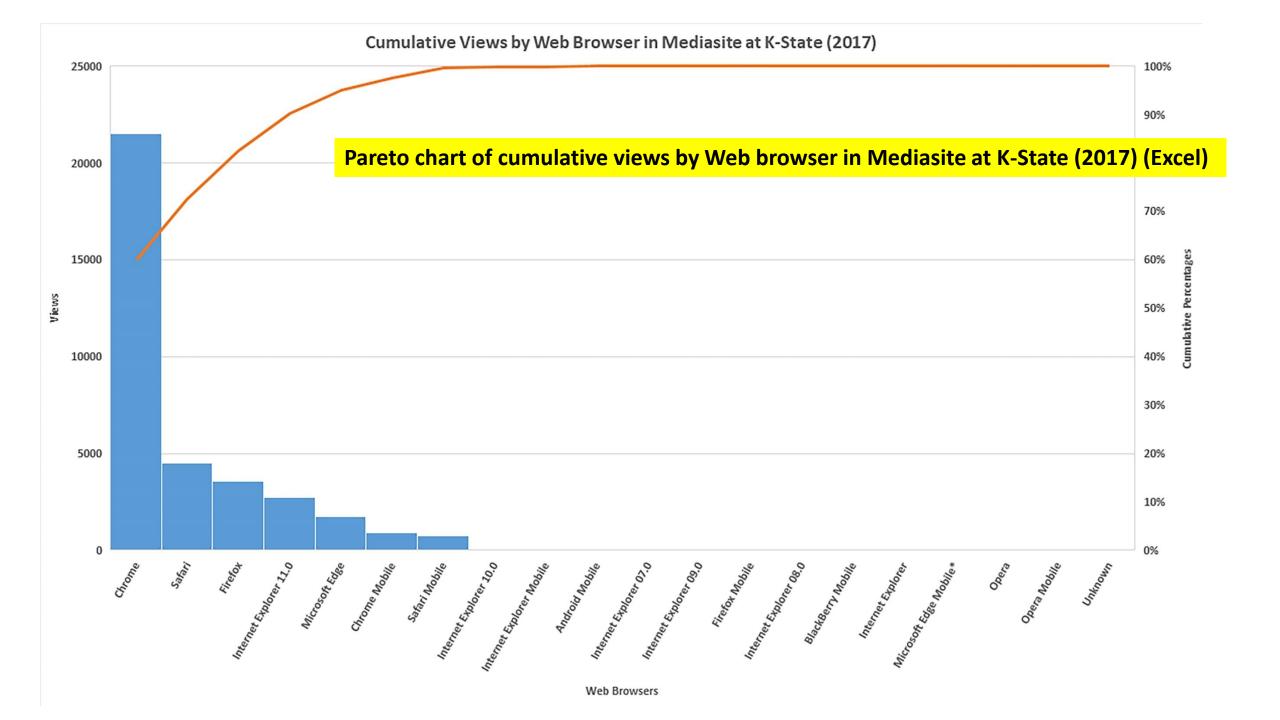


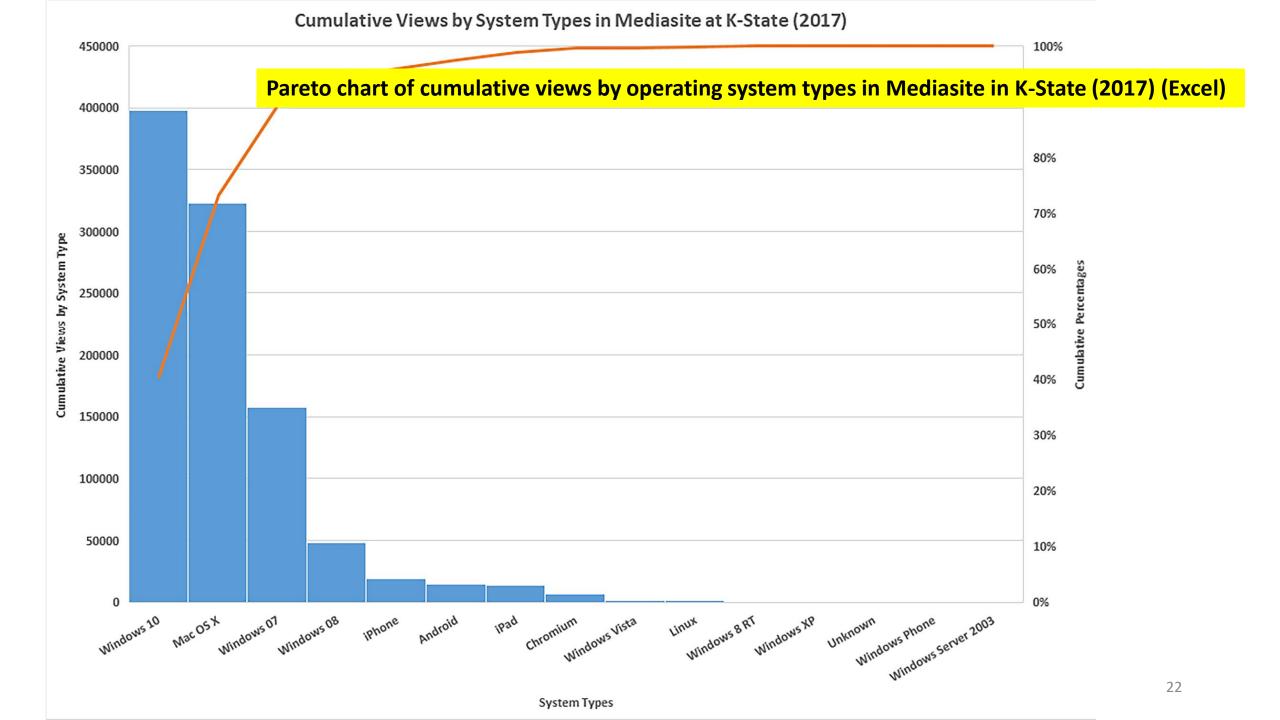
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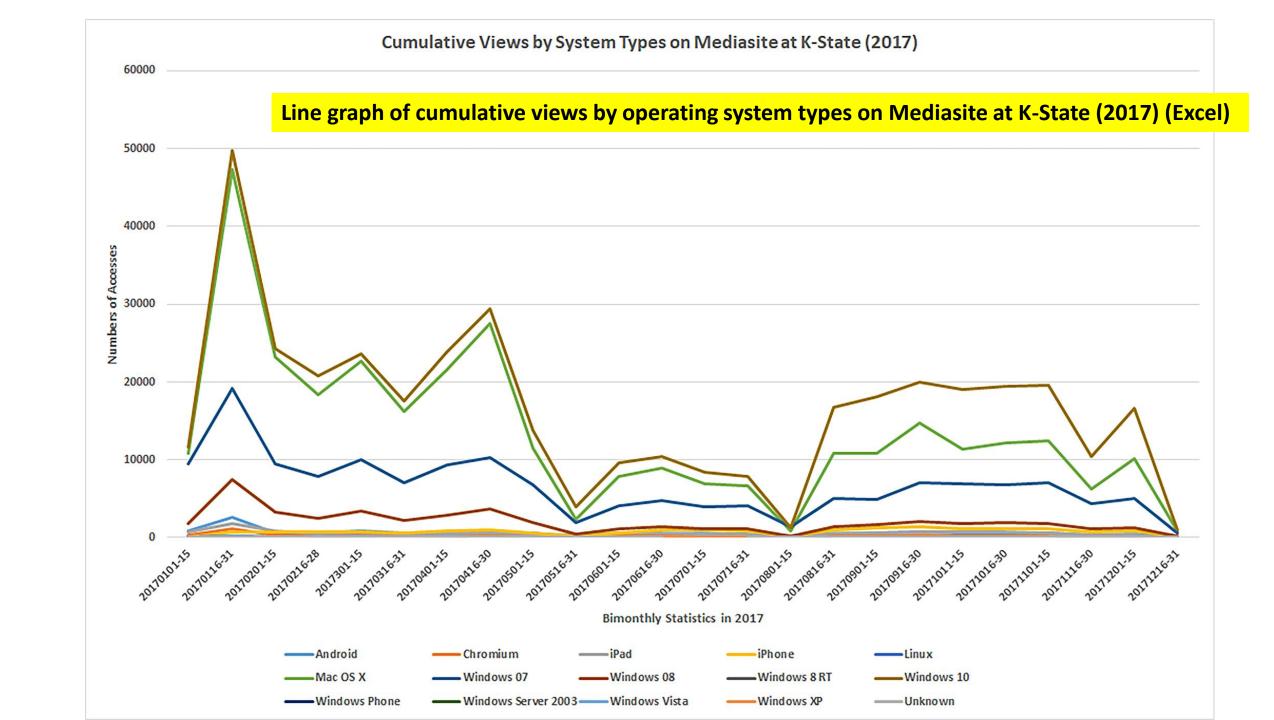
Vertical bar chart of total time watched over chronological time (biweekly chunks) at K-State in 2017 (Excel)

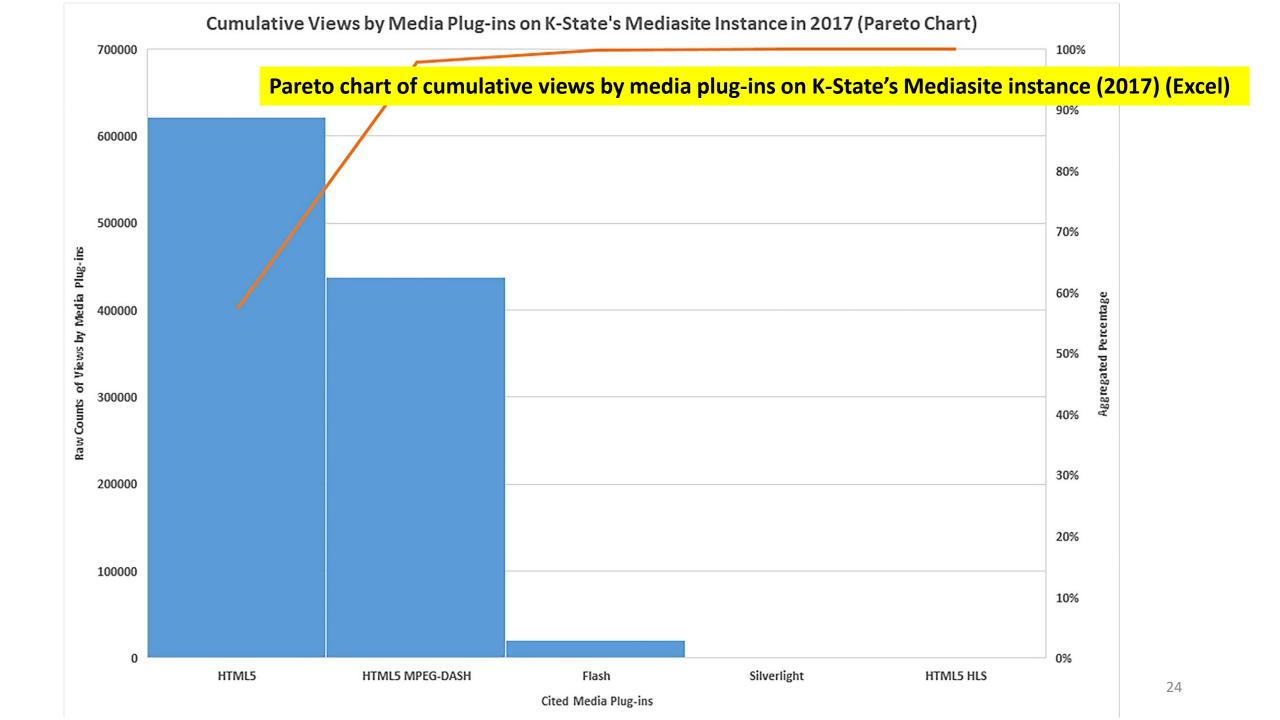


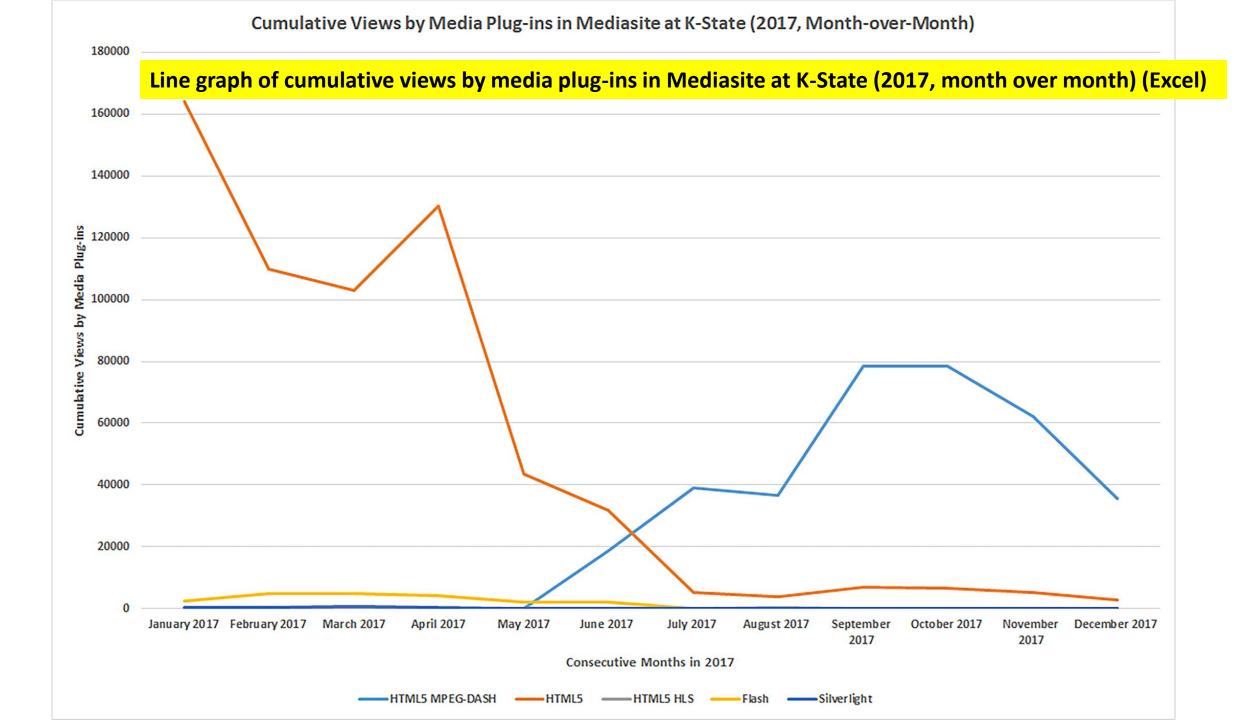


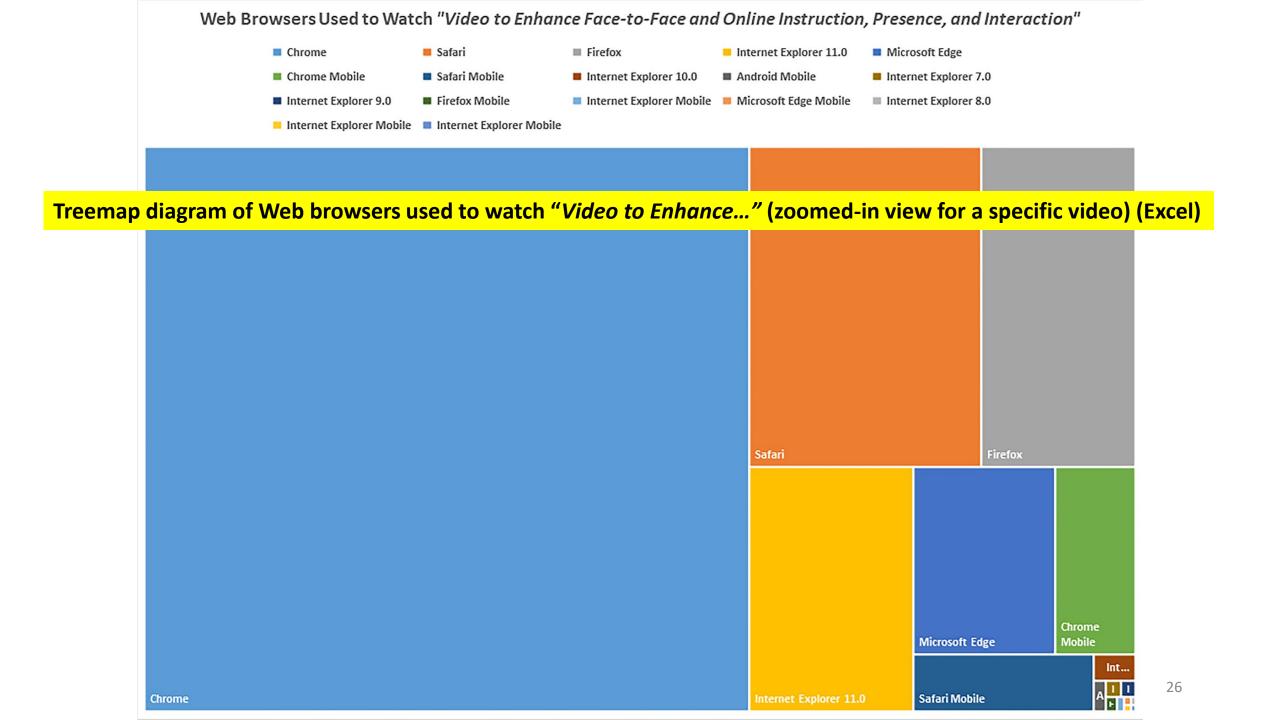












Conclusion

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- Thanks! Thanks to Scott Finkeldei (Director of the Office of Mediated Education) and Brandon Utech (Instructional Media Administrator for Mediasite) for access to the back-end Mediasite data.
- For More Information: The open-shared article Some Back-end Data from the K-State Mediasite Instance (for 2017) is available online from C2C Digital Magazine (Spring/Summer 2018 on July 2018).
- **Technologies Used**: The technologies used for the analyses include NVivo 11 Plus, LIWC2015, and Excel. The data was shared with me as data tables.
- Caveat: This slideshow summarizes a fast walk-through of the data.