#### Radical Research: Good-Bye Highlighters and Post-Its! Hello Digital Tools for the 21<sup>st</sup> Century

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### Digital Discourse

#### Padlet Go to: padlet.com/vidmar/CCLI2019

#### password: radical



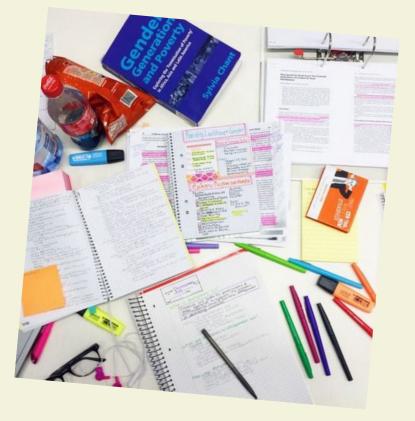
# <u>What are We Doing and How?</u>

What? The Takeaways or What We Can Do on Monday!

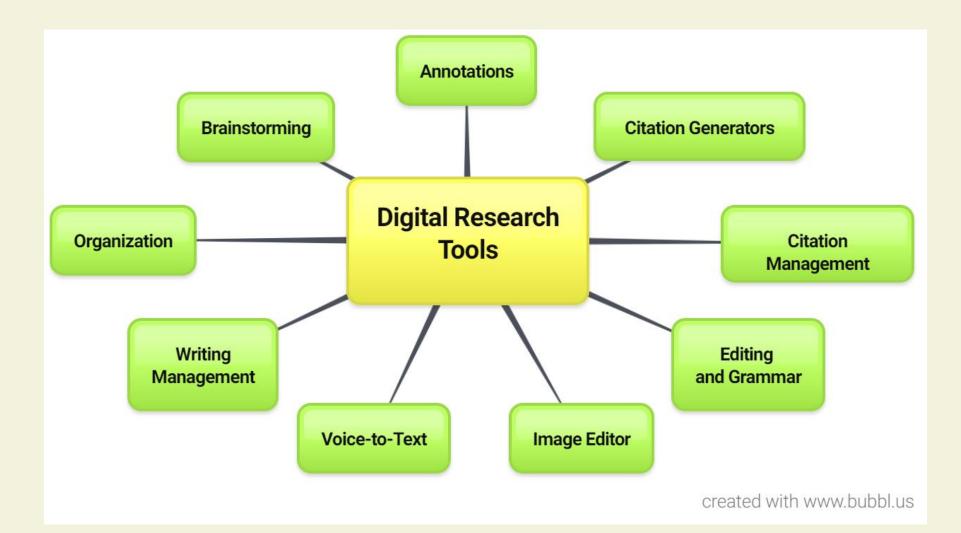
- Adapt and incorporate emerging digital tools into information literacy instruction to assist students with research, writing, and information management.
- Demonstrate various digital tools and transform the way students interact with information.
- Illustrate alternative emerging methods to read, highlight, annotate, tag, and organize research in order to improve student learning.

How? What You will be Subjected To!

- Presentation of a variety of digital tools organized in categories.
- Demonstration of select tools.
- Small group breakout discussion.
- Large group discussion.



#### Digital Research Tools



# Marginalia/Digital Annotation

#### Marginalia (Jackson, 2001)

- Writing in the margins or another area of other people's text.
- Thought of as discourse or reader response.
- Spontaneous notes or comments (McClelland, 2016).
- Measure of intellectual engagement of reader.



#### **Digital Annotation**

- Also called "digital social reading" and "digital discourse" (Skains, 2019).
- Using a digital method of annotation to share comments and notes.
- Online means of interacting with text.
- Includes but is not limited to citation generators, annotations, notetaking, tagging, voice-to-text, grammar and spell checkers, brainstorming, information management and organization, image editors, etc.

Most paper annotations are relatively simple "anchor only" type annotations consisting of underlining, circling, margin notes, etc. (Mehta, Bradley, Hanncock, & Collins, 2017).



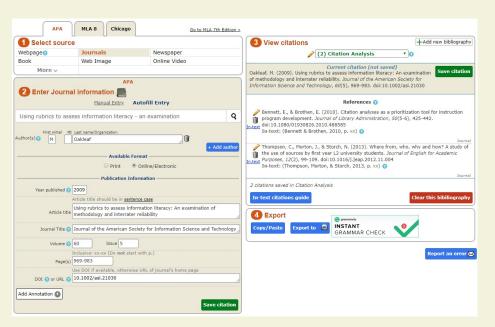
# **Top of the Class**

- Endnote <u>endnote.com/</u> commercial online research and reference management tool that stores, searches, and constructs bibliographies a myriad of style beyond APA, MLA, etc. Endnote also annotates, tags, and searches documents and notes. Also, works with word processing software such as Word to insert citations and create bibliographies and in text citations.
- RefWorks <u>www.refworks.com/refworks2</u> powerful commercial online research and reference management tool that stores information, generates citations, and creates bibliographies in a myriad of formats beyond APA and MLA. Similar to Endnote, Refworks annotates, tags, and searches documents. The Write-n-Cite feature works with word processing software such as Word to insert citations and create bibliographies and in text citations.

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Avian Intelligence		@ Bird, C. D.;	Emery 2009	Insightful problem solving and creative tool modificati	**	Proce	What Do Jays Know About Other Minds
Avian Cognition	(31)		Kako, 2009	Intense echolocation calls from two 'whispering' bats,		Journ	what Do Jays Know About Other Minds and Other Times?
~			Moss, 2007	The role of the external ear in vertical sound localizat		Journ	and Other Times?
Corvids	(19)	<ul> <li>A Clayton, N.</li> </ul>		What do jays know about other minds and other times?		Neuro	Nicola S. Claston and Nathan J. Emery
Gorvids & Parrots	(6)	DeLong, C.		Evidence for spatial representation of object shape b		Journ	record of Chapters and Nathan J. Emery
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Parrots	(24)	Emery, N. J		Tool use and physical cognition in brds and mammats Cognitive adaptations of social bonding in birds	7	Philos	
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Chiroptera	(22)	Funk, M. S.	2002	Problem solving skills in young vellow-crowned parake		Anima	
Sector 1		Goto, K.; W	atana 2012	Large-billed crows (Corvus macrorhynchos) have retr		Anima	Abstract As humans, our thoughts are not "stock in time." Indeed, it is our ability
Echolocation	(6)	Greenhal, A		House bat management			to mentally dissociate ourselves from the present that allows us to recall the past and plan for our fumor imensal time travel). We can also mason about what others might
Echolocation OR Sonar	(7)	Grothe, B.;		Structure and function of the bat superior olivary co		Micros	be thinking (mental attribution) and thus dissociate surrelves from other selves.
R Sonar	(5)	<ul> <li>Hagino, T.;</li> </ul>		Adaptive SONAR sounds by echolocating bats		Sth Ir	Many psychologists have argued that these two forms of mental projection into other times and other minds are unique to humans and that the six-levered performal
Pri sona	(0)	Hartle, D.	2008	Alex & Me: How a scientist and a parrot discovered a		Librar	costex is the necessary platform for such intelligence. Recent studies challenge these
My Groups		🖉 Holland, Rid		Bats use magnetite to detect the earth's magnetic field		PLoS Anima	assumptions, however, and some of the most convincing evidence comes not from our closest relatives, the getat ages, but from a surprisingly smart, large-brained
E Hy Groups	1000	Holzhaider,		The social structure of New Caledonian crows Echo duration selectivity of the bat varies with pulse	**		hird, the workern scrub jay.
Cognition-All	(33)	<ul> <li>Jen, P. H. S</li> <li>Laudato, Ar</li> </ul>		Echo duration selectivity or the bat varies with puse Bird grooves to the beat		Neurc CBS S	Like many other members of the crow family (corvide), these birds hide food for
		A Lefebyre, L		Brains, lifestyles and cognition: Are there general tre		CBS S Brain,	the future and po to prost lengths to prevent other birds from stealing their caches.
Find Full Text		Moss, C. F.:		Neurobiology of echolocation in bats	****	Curre	In terms of recalling the part, these birds form complex, highly flexible and inte- pated memories of the "what, where and when" of specific part caching episodes.
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		Pepperberg		The Alex studies: Cognitive and communicative abiliti	*****		if so, which bid was watching when, and take protective action accordingly, sug- going that they may also be aware of others' knowledge states. This behaviour is
U Found URL	(3)	@ Pepperberg		Rethinking syntax: A commentary on E. Kako's "Elem		Anima	only seen in experienced jays that have been thieves themselves in the past, how-
Not found	(30)	Pepperberg		In search of King Solomon's ring: Cognitive and comm		21st /	ever. Naive birds that had no thieving experience do not do so, a result that raises the intripuing possibility that experienced joes are able to simulate another bird's
	()	<ul> <li>Pepperberg</li> </ul>		Cognitive and communicative capacities of grey parro		Anima	viewpoint. Finally, recent work demonstrates that the jays also make provision for
		<ul> <li>Pepperberg</li> </ul>		Grey parrot (Psittacus erithacus) numerical abilities:	***	Journ	a fature need and will cache more food in places in which they will not be given breakfast the following meeting than in places where they will receive breakfast the
		<ul> <li>Pepperberg</li> </ul>		Cognitive and communicative abilities of grey parrots		Applie	
		<ul> <li>Pepperberg</li> </ul>		'Alex & me': The hidden world of animal minds Alex & me: How a scientist and a parrot discovered a	A + +	Fresh	N.S. Chetrin Department of Experimental Psychology, University of Cambridge, Cambridge CB2 9039, UK
		<ul> <li>Pepperberg</li> <li>Pepperberg</li> </ul>		Avian cognition and social interaction: Fifty years of	***	Intera	e mail and 2002 Promotek NJ, finary
		<ul> <li>Pepperberg</li> <li>Pepperberg</li> </ul>		Symbolic communication in the grey parrot		The C	School of Biological & Chemical Sciences, Oncon Mars, Canonare of London.
		Peron, F.; P		Cooperative problem solving in African grey parrots (	+	Anima	Lonka EI 305, UK
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		A Salwiczek, L		The development of caching and object permanence i		Journ	() Springer-Votag Barlin Heidelberg 2009
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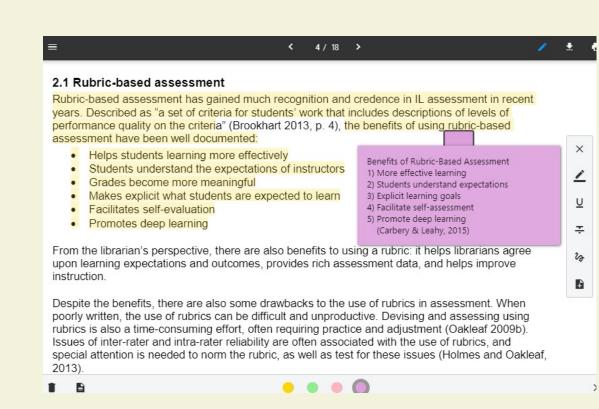
#### **Citation Generators**

- Citefast <u>http://www.citefast.com/</u> generates bibliography, in-text citations, and a title page in MLA, APA, and Chicago. Citations kept indefinitely with free account. Provides in-text examples.
- BibMe <u>www.bibme.org/</u> creates citation lists in MLA, APA, Chicago, and Turabian. \$9.95 monthly fee.
- Citation Machine <u>http://www.citationmachine.net/</u> generates citations in MLA, APA, Chicago, Turabian, and more.
- Easy Bib <u>http://www.easybib.com/</u> generates citations and works cited pages in MLA, APA, and Chicago formats. Includes citation guides for the various formats. \$9.99 monthly subscription.



# **Basic Digital Tools**

- 1. Underlining/Highlighting
- 2. Notetaking/Writing in the Margin
- 3. Organizing Ideas and Concepts
- 4. Tagging
- 5. Searching
- 6. Citation Management
- 7. Voice-to-Text



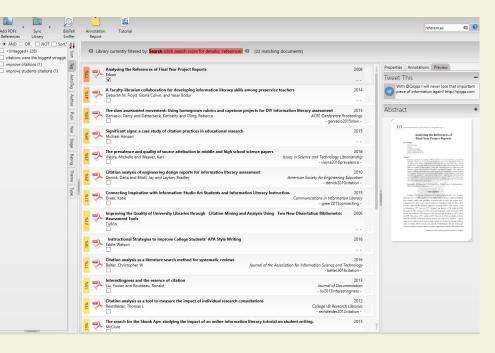
#### Annotation

- ReadCube <u>www.readcube.com</u> tool that imports .pdf files, manages searchable references, makes inline notes, compiles notes, and highlights while reading. Cost - \$55/year.
- A.nnotate <u>a.nnotate.com/</u> store and share comments on .pdf files, Microsoft Office documents, images, and Internet sites. Includes the ability to create notes anywhere on an item and share them with others. Works on common browsers without having to install software or plugins. Limited documents space with free subscription.
- Scribe <u>http://chnm.gmu.edu/tools/scribe/</u> program for note-taking program that can manage research notes, comments , and ideas, so they can be indexed, searched, and cross reference like an online index card that is searchable.



### **Citation Management**

- Qiqqa <u>www.qiqqa.com/</u> manage references, read, annotate, tag, search, and cite .pdfs and other documents.
- Mendeley <u>www.mendeley.com/</u> create a personal library of research. Search, sort, annotate, create sticky notes, and cite using appropriate style.
- Citavi <u>https://www.citavi.com/en</u> manage references, integrate .pdfs and other documents, evaluate content, organize content, and cite sources. Limited use free version.
- JabRef <u>http://www.jabref.org/</u> manage references and store fulltext documents online. Export files from databases such as PubMed, Google Scholar, Web of Science, Medline, or with the Digital Object Identifier (DOI).



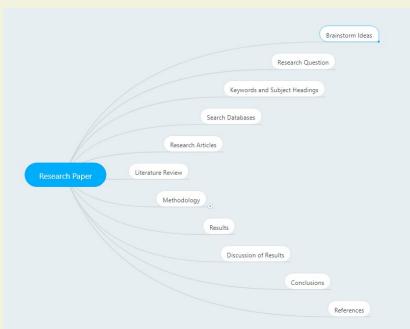
#### **Citation Management**

- Zotero <u>www.zotero.org</u> tools that creates a searchable personal library of sources, indexes the full-text, annotates, tags, and cites references. Limited 30 MB free storage.
- Colwiz <u>www.colwiz.com</u> stores files, maintains reference library, annotate documents, and cite references. 2 gig free document limit.
- ReadCube <u>www.readcube.com</u> tool that imports .pdf files, manages searchable references, makes inline notes, compiles notes, and highlights while reading. Cost -\$55/year.

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# Brainstorming

- Mindmeister <u>www.mindmeister.com</u> collaborative mind mapping and brainstorming tool to help organize your thoughts. Up to 3 free mind maps or \$4.99/month for unlimited mind maps.
- Bubbl.us <u>bubbl.us</u> visual thinking tool that creates a graphical mind map of ideas and concepts to structure information. Up to 3 free mind maps or \$59 annually--\$4.91/month for unlimited mind maps.
- MindMup <u>www.mindmup.com/</u> brainstorm and create mind maps, presentations, and outlines to help focus ideas and collaborate with others. Converts mind maps to .pdf, PowerPoint, and other programs. Unlimited free mind maps.
- VUE <u>vue.tufts.edu/</u> visual understanding environment (VUE) provides a concept and content map to visually organize digital files. Download app for free Windows or Mac versions.



# **Editing and Grammar**

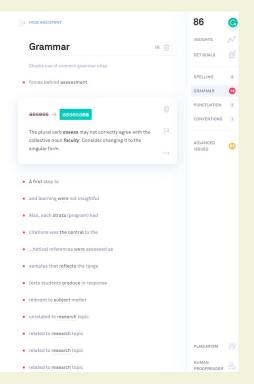
- Grammarly <u>www.grammarly.com</u> check grammar, writing style, spelling and other aspects of writing including plagiarism.
- Ginger <u>firstsiteguide.com/ginger/</u> proofreads and checks punctuation and Grammar inside Word, so you do not have to upload or copy and paste text.
- Hemingway App <u>http://www.hemingwayapp.com/</u> highlights lengthy, complex sentences and common errors to help write more concise and clear sentences. Paste text into the app or write something directly.

#### SOURCE CODE - VIDMAR - LOEX2015\_PROCEEDINGS

byclical process, it is not an all or nothing process. Set the goal to assess one or two outcomes and develop further assessment from the results and conclusions. Also, synchronize assessments to function at more than one level, such as within the library and throughout the university. Make It Relevant

The purpose of meaningful assessment is to improve teaching and student learning by direct rather than indirect means. The intent is to assess what individual faculty <u>assess</u> in courses on an institutional level. In other words, assess actual student work samples such as capstones, papers, presentations. These embedded assessments speak to coursework and assignments that students have a vested interest in completing to the best of their ability. Which information literacy outcomes are best illustrated in student work samples and where are they found? In an ideal sense, the ultimate goal of an assessment is for the project itself, beyond the findings, help develop and strengthen both individual instruction and the information literacy program (Jastram, Leebaw, & Tompkins, 2014). Communicate Assessment Besults

Assessment activities generate data that needs to be shared and shared widely. For the most part, it is far easier to collect data than to productively use the data to improve teaching and student learning (Blaich & Wise, 2011). Communicate assessment results to those with the time and interest to improve student learning and engagement. In order to determine if assessment results are communicated effectively, Banta and Blaich (2011) suggested asking if faculty can do the following: Name two or three strengths within the program. Identify two or three areas for improvement within the program. If the answer is no, then assessment results need to be communicated better. <u>A first</u> step to improvement is to construct a plan for distributing the results and create professional development opportunities for faculty to discuss the findings with the intent to improve teaching and learning.



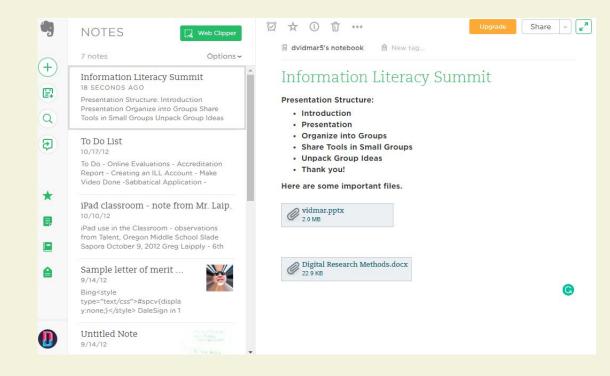
# **Image Editor**

- GIMP <u>www.gimp.org</u> open source image editor that enable retouching, resizing, rendering, and converting format.
- Photo Pos Pro <u>https://www.photopos.com/</u> offers separate alternative interfaces for novice or advanced users. Enables image editing and correction tools. Limited size of saved files.
- Pixlr Editor <u>https://pixlr.com/editor/</u> open source free Photoshop style photo/image editor.
- SumoPaint <u>www.sumopaint.com</u> photo/image editor that works directly from the browser without installing software.



# **Organization and Collaboration**

- Padlet <u>padlet.com</u> create a "virtual whiteboard" a "virtual wall" which allows immediate and collaborative responses individually or in groups of any size.
- Evernote <u>evernote.com</u> create texts, photos, and audio notes. Free subscription synchronizes notes on two different devices.
- WorkFlowy <u>workflowy.com</u> organizational tool to create lists, take notes, and write collaboratively.
- Wunderlust <u>www.wunderlist.com</u> create and organize lists, tasks, reminders, or ideas and collaborate with others.



#### Voice-to-Text

- Speechnotes <u>https:/speechnotes.co/</u> free, easy to use voice-to-text enabled online notepad that works entirely in Google Chrome. Save notes in Word.
- Dragon Naturally Speaking -<u>www.nuance.com/dragon</u> - speech recognition software that formats voice into text.
- TalkTyper <u>https://talktyper.com</u> basic voice-to-text dictation tool that captures speech and creates plain text that can be copied and pasted elsewhere.
- VoiceNote <u>https://voicenote.in/live/</u> downloadable voice recognition extension that converts speech to text.

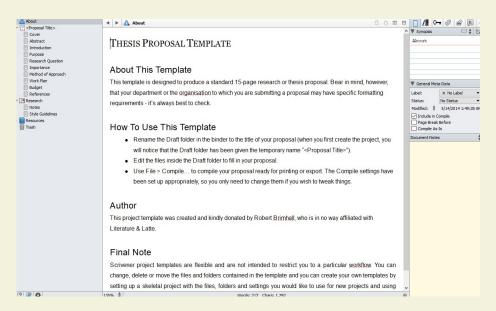
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# Writing Management

#### • Scrivener -

<u>www.literatureandlatte.com/scrivener/overview</u> – compose and structure long documents. Easily write, structure, and revise.

• Write! - <u>https://writeapp.co/</u>– distraction free text editor that automatically cloud saves and has a variety of features such as set daily goals, auto-complete, unlimited undo, spell checker, and productivity counters, and a dark/light mode that focus the light on the current paragraph. Cost is \$24 or \$9.95 for students.



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#### What are you doing? and What tools are you using?

#### Questions, Thoughts, Comments

#### Padlet Go to: padlet.com/vidmar/CCLI2019

#### password: radical



#### Radical Research: Good-Bye Highlighters and Post-Its! Hello Digital Tools for the 21<sup>st</sup> Century

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