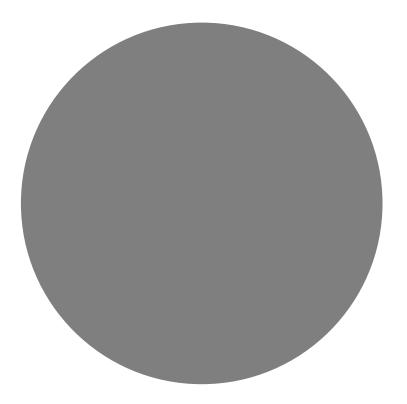
Evaluating the UX of Instructor Feedback: An Exploratory Analysis

Andrea L. Beaudin Texas Tech University 30th May, 2018



Overview



Will Hochman

- Mentor
- Friend

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• Instigator



Initial curiosity Why Feedback?

THE REIGN OF RED INK

WALTER BARNES nville State Normal School, Glenville, West Virginia

en this paper on theme-correcting in the grades a 'he Reign of Red Ink," in order to characterize, or if I may coin a word—the present period of composi-

As accurately as I can judge from a rather brief d limited observation, I believe that the children in we, so far as composition work is concerned, in an archy, in which they are the subjects, the teacher e often, the queen), and the red-ink pen the royal -"not to crack the wind of the poor phrase, running believe that in the elementary school we correct a too rigidly.

to has studied the history of the teaching of English at the children of today are receiving better training an public-school children have hitherto received. Themselves have generally been subjected to thorough drill; the psychology and pedagogy of the subject lously studied and suggestively written; and compoalong with other phases of English, is accorded an acce in the curriculum. But despite all this, there n unintelligent process.

spite all this"; perhaps "because of this" would curate and more suggestive. For I belie the blame can be charged to our nateagerness to justify the prom-

A COMPOSITION ON RED INK³ ALFRED M. HITCHCOCK Public High School, Hartford, Conn.

Red ink is to our profession as drugs are to the medical profession. We cannot, or think we cannot, get along without it. But these are well-nigh drugless days. The medicine cabinet is smaller than it used to be; the few bottles it still contains are smaller. I do not look to see red-inkless days; yet the time may come, and soon, when shallower ink-bottles will be the mode. I hope such a time will come soon, for this I have noticed: whereas doctors, wisely or unwisely, may administer drops and pills unnumbered without feeling personal discomfort, teachers who administer large quantities of red ink all too frequently grow thin and pale and 'im of eye. I would gladly hasten the coming of such a time, an' 'b this laudable purpose in mind I shall jot down all of the w' think of in which red-ink economy may be practiced. Ar 'vs will be found nothing novel, certainly nothin '' scrip contains but simples long known tr

Over a century of literature... Scholarship

CORRECTING AND GRADING THEMES

HILDA JANE HOLLEY

Doubtless the last word has been said on the subject of and grading themes. But in most cases this word has d for the overburdened English teacher except to fix in conscious, if not conscious, mind the thought, "How I hate Students hate themes just as much as the teachers, but themes is a necessary evil if the child is to be taught to his thoughts and put them in a form which will convey to other people. Recognizing that themes and the result of correcting papers were inevitable as long as I followed fession which I had chosen with care and forethought, I a to devise some scheme which would take the drudgery of correcting of never less than two hundred themes a do not believe my scheme is original. It may have been vr superior form in many schools. I really do not know the ideas incorporated in the grade sheet which I u stem has proved very satisfactory both to me and the Sirst aim was to find some system by which I co v. I found it difficult to decide whether a giv ar cent or only 83. I also discovered ' vapers my judgment var'

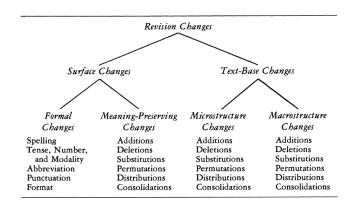
Red Ink

A COMPOSITION ON RED INK¹

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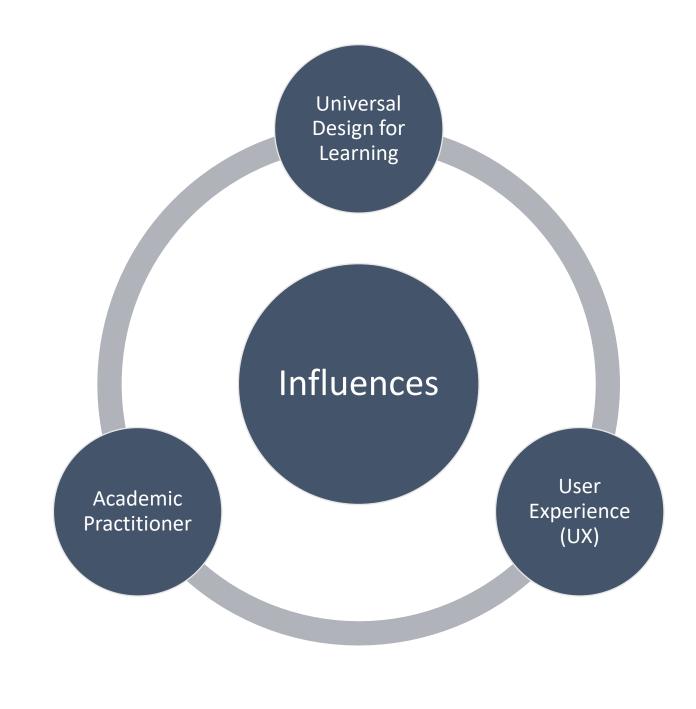
wordy be precise builday? I meded Every year one Sunday in the middle of January tens of millions of Thus word choice & people <u>cance</u>l all events, plans or work to watch the Super Bowl. This to 696 wordy audience includes little boys and girls, old people, and housewives and Ge geerifie - what nearne? men.]<u>Many reasons</u> have been given to explain why the Super Bowl has and why: what spot?) become so popular Jac commercial (spots cost up to \$100,000.00. awkward One explanation is that people like to take sides and root for a team. another what ? + spelling Another is that some people like the pageantry and excitement of the tor colleguial event. These reasons alone, however, do not explain a happening as big as 83 \ the Super Bowl.

	Deshooting Your Writing
Beneficially size devices the second of characteristics, which was a financial operation (and the second of the second second operating of the second operating of the second for the second operation (and the second operating o	Service sensitive sensiti sensitive sensitive sensitive sensitive sensitive sensitive sensi

The Can(n)on

Faigley and Witte (1981)	"Analyzing Response"
Sommers (1982)	"Responding to Student Writing"
Haswell (1983)	"Minimal Marking"
Connors and Lunsford (1988)	"Frequency of Formal Errors in College Writing, or Ma and Pa Kettle Do Research"
White (2007)	Assigning, Responding, Evaluating: A Writing Teacher's Guide (4 ed.)
Lunsford and Lunsford (2008)	"'Mistakes Are a Fact of Life': A National Comparative Study"

Influences





How can I/we do feedback better?

Research Questions

How are instructors currently providing feedback to students (what media, content, and style)?

What experiences with and expectations for feedback do students have?

How do students typically interact with feedback?

How might the medium of the feedback impact its usability, and why?

Theories about and strategies for answering questions

Methodology and Methods



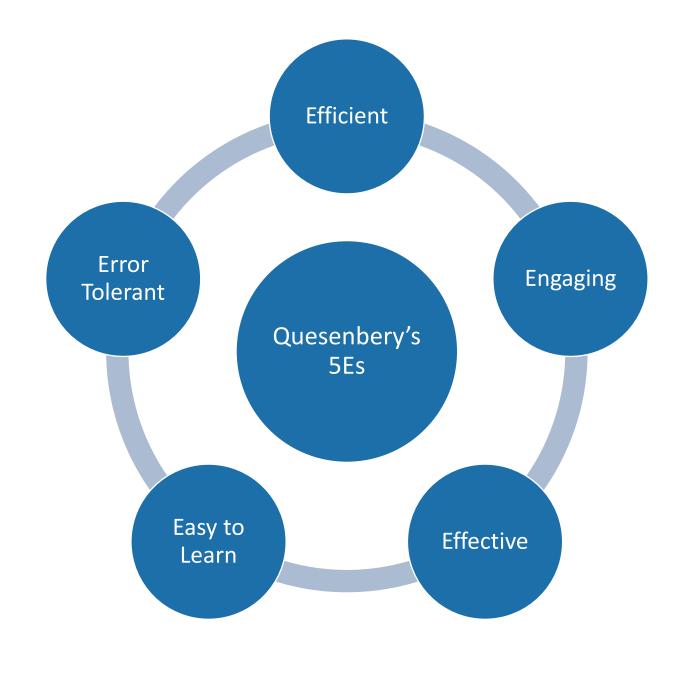
Composing as UX Research and Evaluation

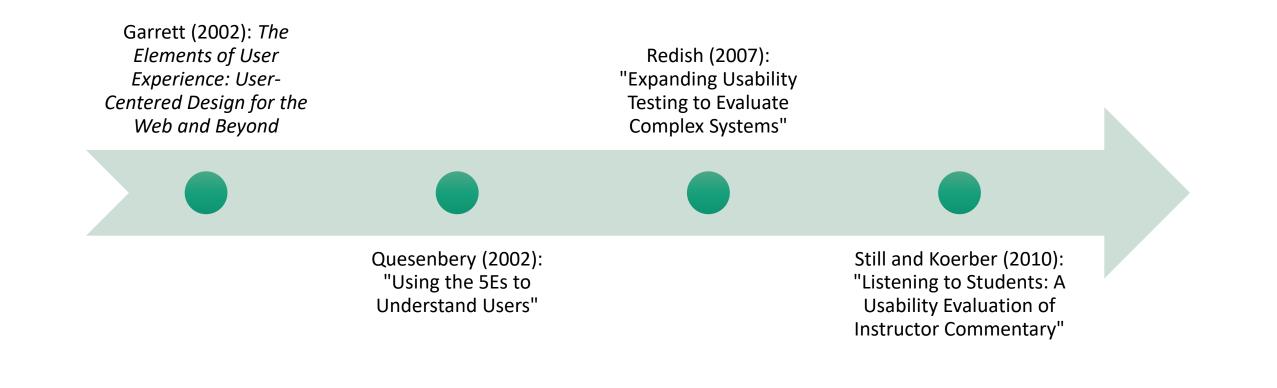
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"The basic tenet of technical communication is user analysis. Everything starts with the end user."

Redish and Barnum (2011), "Overlap, Influence, Intertwining: The Interplay of UX and Technical Communication"

User Experience





Strategies

Methods: Basis

- Still and Koerber (2010)
 - User-centered
 - Complexity
 - Further Research

Listening to Students: A Usability Evaluation of Instructor Commentary Journal of Business and Technical Communication 24(2) 205-233 © 2010 SAGE Publications Reprints and permissions agepublicons/journalsPermissions.nav DOI: 10.1177/1050651909353304 http://jbtc.agepublicom

SAGE

Brian Still¹ and Amy Koerber¹

\bstract

Invision of the second second

writing feedback, grading, writing

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Instructors

- Nationwide
 - Survey
- TTU ENGL 2311
 - Survey

Students

- TTU ENGL 2311
 - Survey
- User Testing Participants
 - Survey
 - Learning Styles Inventory
 - User Testing:
 - Observation
 - TAP
 - Artifacts
 - Interview

Methods: Research Design

2311 Instructor Survey

2311 Student Survey

Learning Styles Assessment

National Instructor Survey

Usability Graded Artifacts

Usability Observation

Usability Post-Test Interview

Usability Pre-Test Survey

Q4: How might the medium of the feedback impact its usability, and why?

Q1: How are instructors currently providing feedback to students?

Q3: How do students typically interact with feedback?

Q2: What experiences with and expectations for feedback do students have?

Usability Revision Lists

Usability Talk-Aloud Protocol

Research Questions and Methods

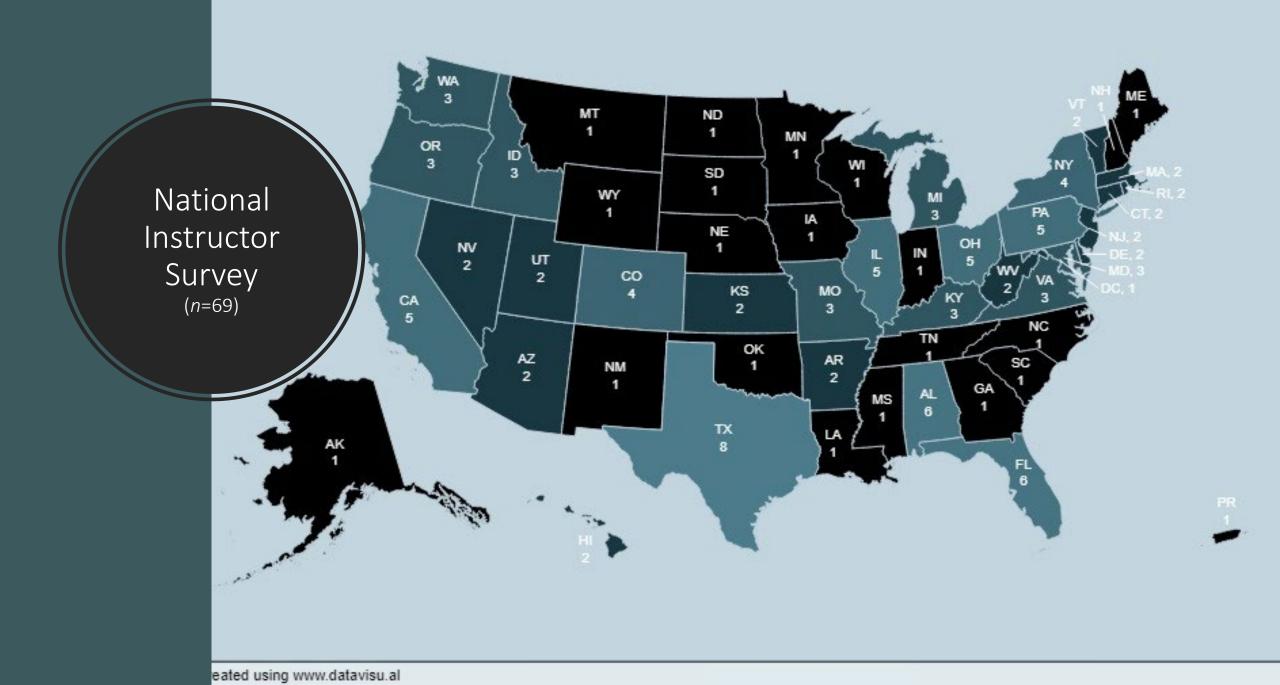
Lots of data. Now what?

Results and Analysis



Instructors

National Instructor Survey and TTU ENGL 2311 Instructor Survey

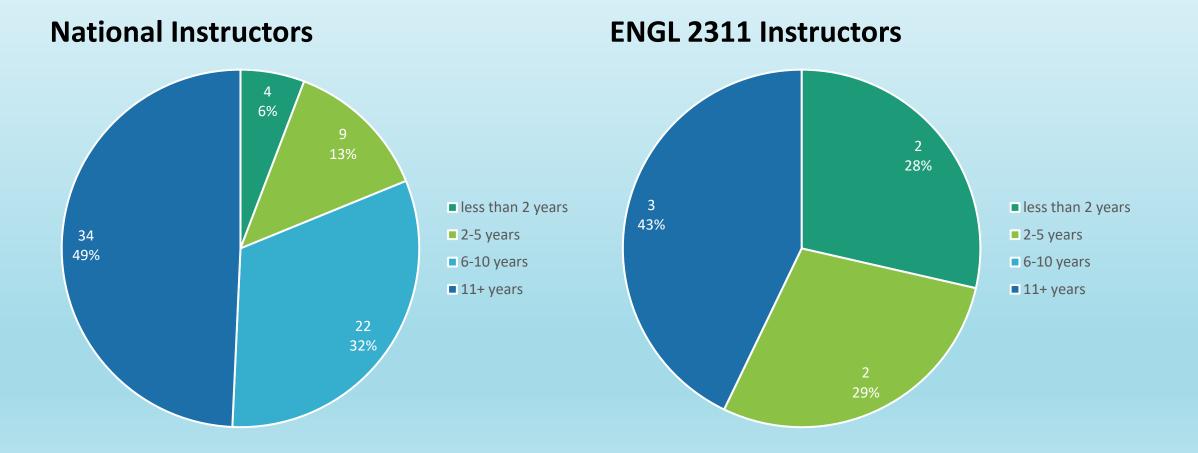




out of 18 participated



Experience Teaching Comp/Tech Writing/WID

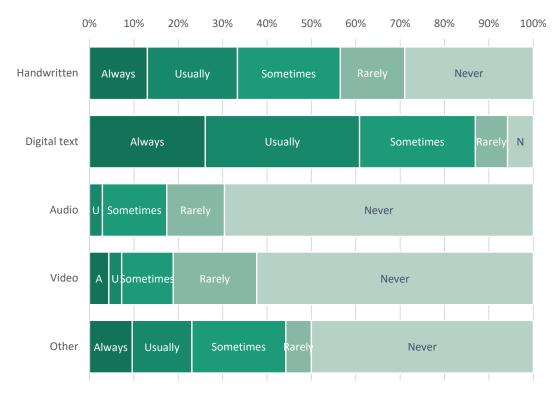


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Frequency of Media

National Instructors



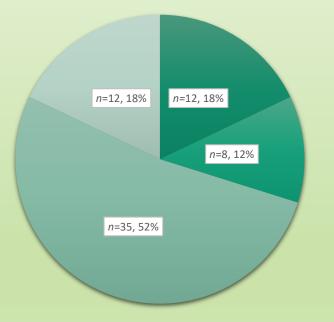
ENGL 2311 Instructors



"I spend a manageable and appropriate amount of time commenting and evaluating each assignment"

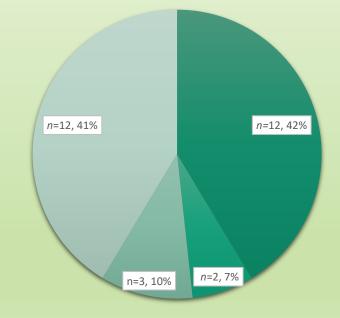
National Instructors

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Strongly Disagree Disagree Neither Agree nor Disagree Agree Strongly Agree

ENGL 2311 Instructors



Strongly Disagree Disagree Neither Agree nor Disagree Agree Strongly Agree

Manageable and Appropriate?

"It takes forever and a day for me to give feedback that I think is useful and useable — and that addresses higher order concerns. Noting grammar errors is easy; pointing out that paragraphs are out of order, explaining why the order doesn't work, and **suggesting an alternative without telling a student what to do** is not easy. Not at all."

NIS Respondent #62



"I believe my students are able to apply the feedback to revision and/or subsequent assignments"

Disagree, n= 7, 11% Strongly Agree, n=11, Agree, n=47, 70% Neither Agree nor Disagree, n= 1, 14% Neither Agree nor Disagree, n= 1, 14% Agree, n=6, 86%

National Instructors

ENGL 2311 Instructors

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Understand and Apply?

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"The previous question asking if I think students *understand* and *use* feedback, it is hard to tell. I hope so and I know some students come to my office hours to ask for clarification. My assumption is that if students do not ask for help, they understand."

TTU ENGL 2311 Instructor Survey Respondent #2

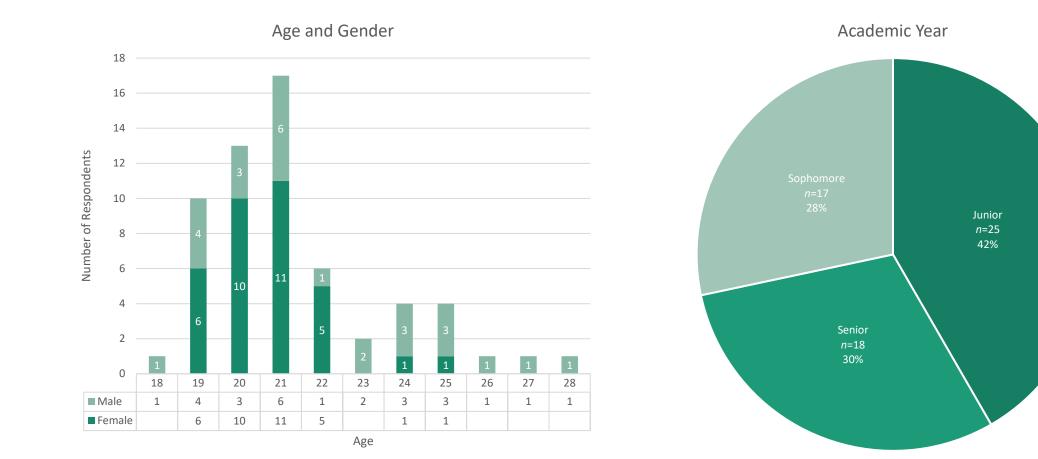


Students

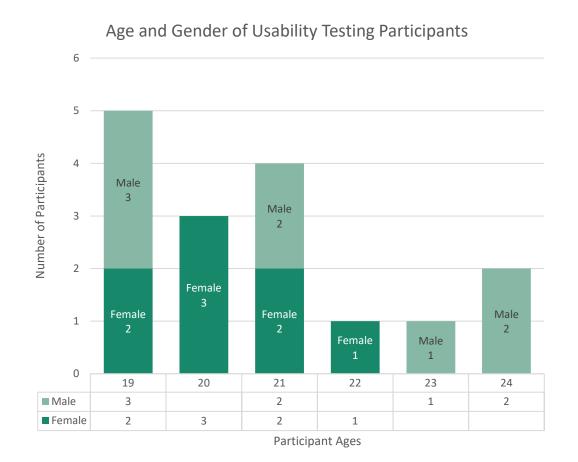
ENGL 2311 Student Survey and User Testing

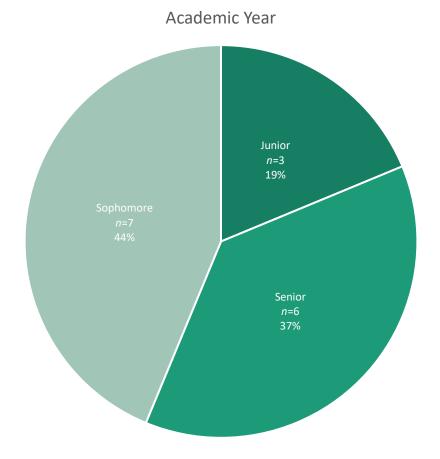
ENGL 2311 Student Survey Demographics

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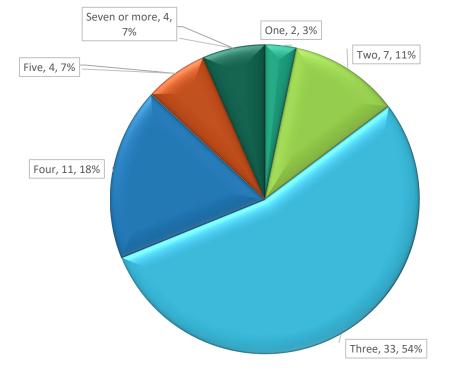


User Testing Participant Demographics





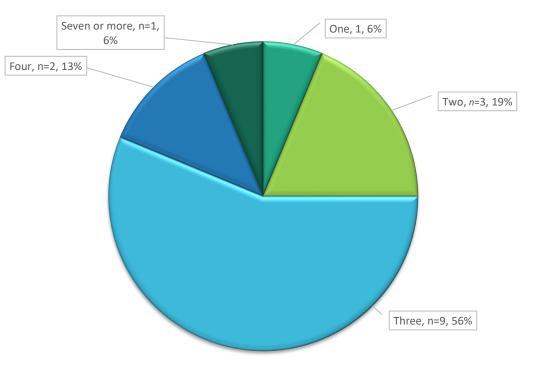
How many college-level writing courses have you taken (including those currently enrolled)?



ENGL 2311 Student Survey

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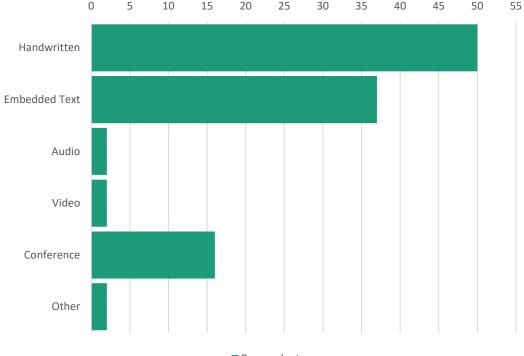
User Testing Participants



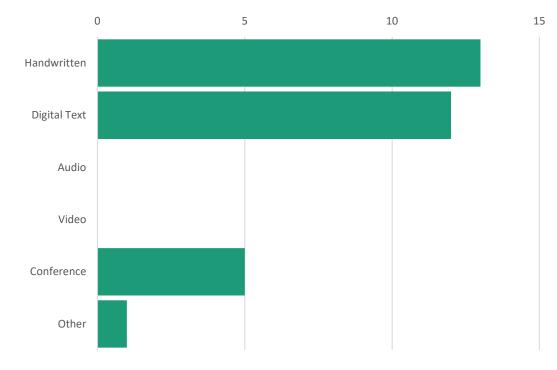
Media for Receiving Feedback

ENGL 2311 Student Survey

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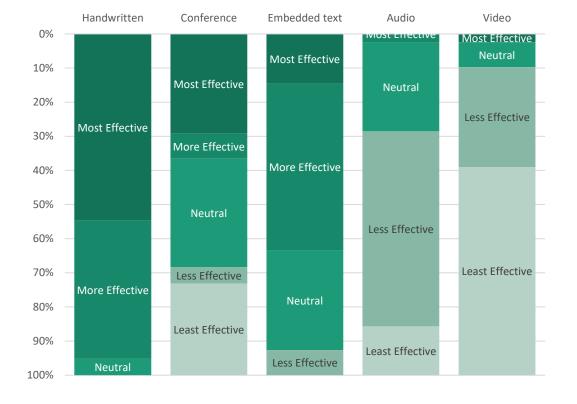


User Testing Participants



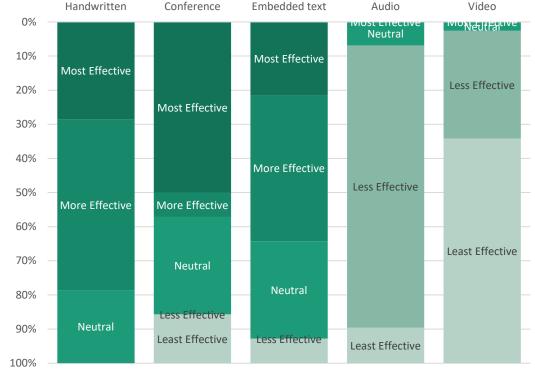
Respondents

Of the types of feedback listed, whether you have received feedback in this form or not, which do you think would be most effective for you as a writer?

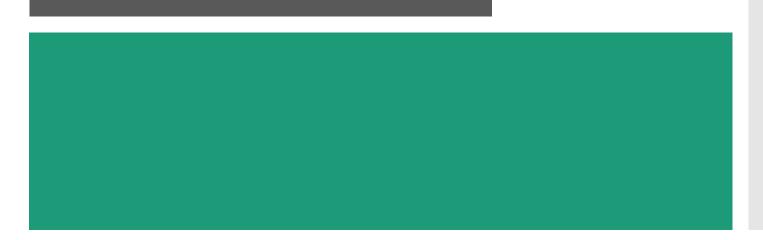


ENGL 2311 Student Survey

User Testing Participants

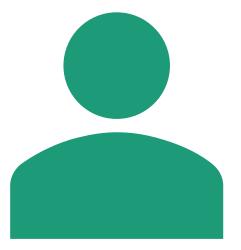


Errors and Directions?



"I find that when an instructor states directly what I did wrong and how I could improve that is the easiest way for me to improve my writing skills."

> ENGL 2311 Student Survey Participant #52



User Testing

English 2311 Students at Texas Tech University

Scenario

As a student in English 2311, you have recently completed an assignment and your instructor has provided feedback. Various tasks will show up on the screen before you; please complete the tasks requested, explaining what you're doing out loud while you're doing it. If at any time you need the task repeated, let me know and I will repeat the task description for you.





Access instructor's feedback on the job application assignment

2

Review the feedback

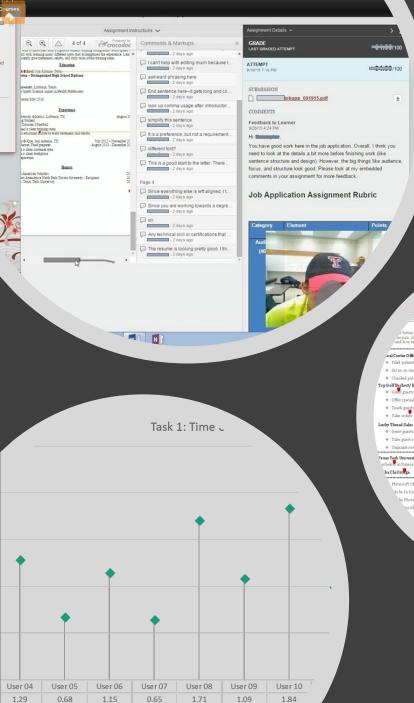


Compose a revision list based on the instructor's commentary



Prioritize list in order of importance

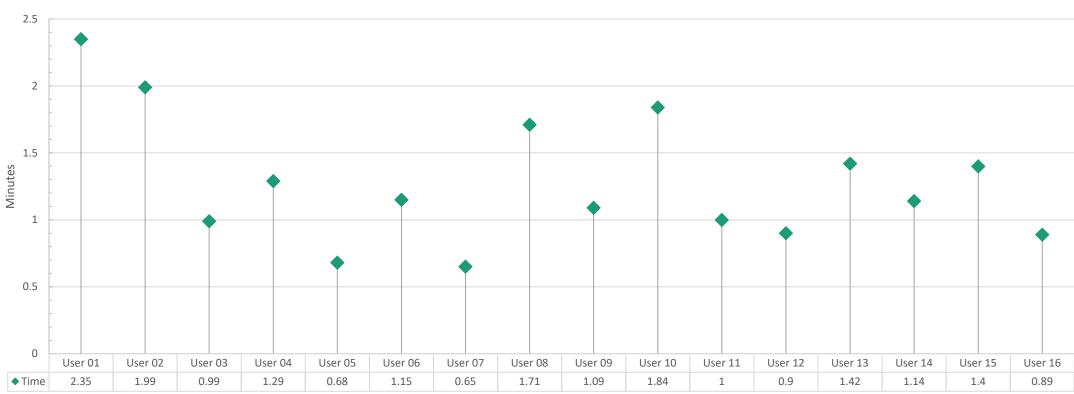




.me ture I hope to attend nu monate about patient healthcare and the medical industry. I am a and love to make others happy and show they are being cared for. Reph This is more of a profile scal Center Office Assistant June 2011-August 2011 than an objective. Profiles are Filed patient paperwork usually written in the third person. Sat in on surgerie Checked patients in and or Top Golf Bayhost/ Event Ambassador © Greet guests January 2015 August 2015 ♦ 6et drinks ♦ Set up events Teach guests how to play ◆ Tile paperwork for each event Opening / Closing duties Reply Lucky Thread Sales Associ July 20 14-J anuary 20 15 Check merchandise in Can some of these ♦ Take guest orders ♦ Winyl Application responsibilities be combined? I'd consider single spacing these and Opening / Closing duti texas Tech University May os8 August 2015-Present Microsoft Office Organizational Skills ♦ Leadership This is a good looking Time Management esume, but some details need Organizational Skill revision to make the design and content more readable. ♦ Problem Solving Lucky Thread lucky thread

Data Collected

- Time on Task
- Talk Aloud Statements [transcribed/coded]
- Video/Screen Capture [coded]
- Artifacts
 - Graded Submission [coded]
 - Rubric
 - Initial Revision Plan [coded]
 - Prioritized Revision Plan [coded]
- Interview [transcribed/coded]



Task 1: Time on Task

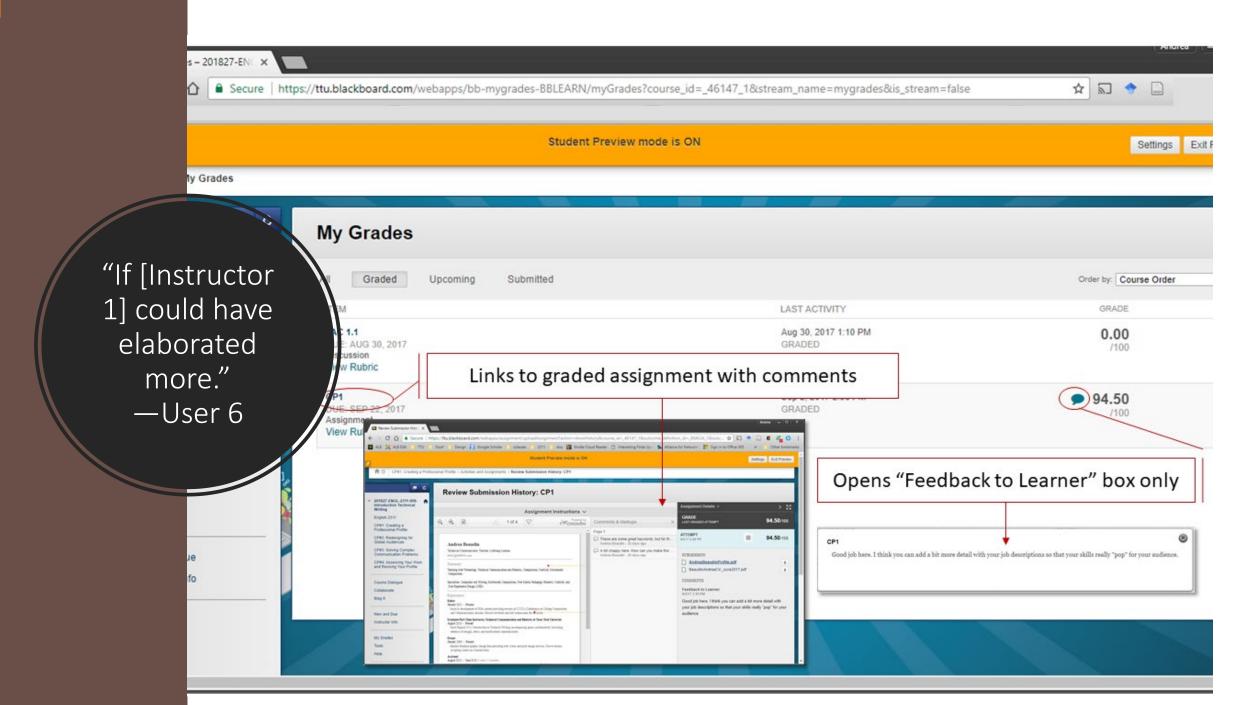
Task 1: Access

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404: Feedback Not Found

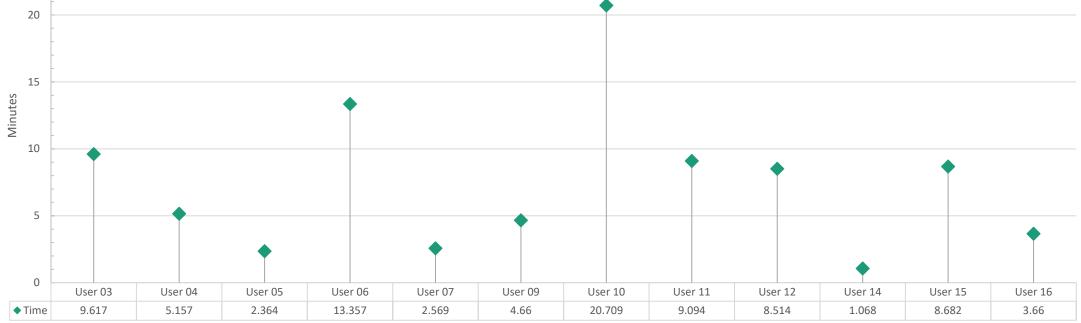






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Task 2: Time on Task



Task 2: Review



To Whom This May Concern:

I am responding to the summer internship position posted on Indeed.com. I am interested in working at the Lord Corporation because I have a passion for chemistry and experimentation. I enjoy long hours of lab work and research as well as interacting with my peers. The position offered by the Lord Corporation strongly appeals to my interests.

I am a chemical engineering student at Texas Tech University. As shown on my resume I have taken multiple statistics courses and am minoring in mathematics. I am literate in Microsoft Office. I have previous experience working in the chemistry labs at Texas A&M Commerce. During my ten week summer research position, I quickly learned how to operate many pieces of equipment including GC, TPR, dTGA and AA. I collaborated with a graduate student to develop a new catalyst for the selective hydrogenation of acetylene. My work is currently awaiting peer review for ACS Catalyst. The research position required me to give many presentations. I have communicated my research to professional chemists as well as to those whom are not fluent in chemistry at two regional and a national conference. Commented [RH4]: Header Organization (Subject Line)

Commented [RH5]: Header Organization (Salutation)

Commented [RH6]: Opening Paragraph (Subject) Commented [RH7]: Opening Paragraph (Location of Ad) Commented [RH8]: Opening Paragraph (Stress Importance) Commented [RH9]: Key Word Commented [RH10]: Background Information/Qualification

-	Commented [RH11]: Key Word/Education
-{	Commented [RH12]: State technical skills
-	Commented [RH13]: Previous Experience
-	Commented [RH14]: Key Word
-	Commented [RH15]: State technical skills
4	Commented [RH16]: Key Word
-	Commented [RH17]: Key Word

Less than a Minute?





Instructor Notation Types Per User Submission

■ content ■ design ■ genre ■ grammar ■ structure ■ style

Instructor Notations: Complexity

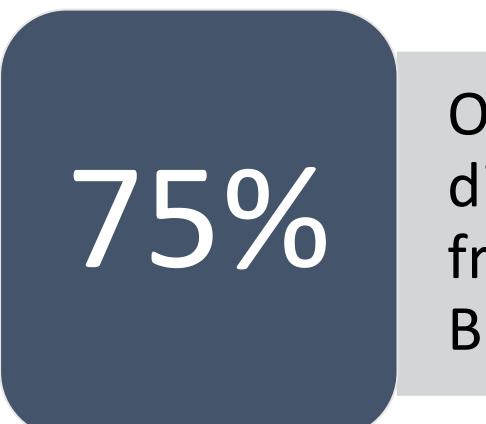
"I literally hate the layout of this page."

"I don't know what part of the assignment [Instructor 1 is] talking about" (User 10)

"So right now I'm trying to figure out what comments go with what page. . . I'm just a little bit confused because I can't see exactly what [Instructor 1 is] pointing to on this" (User 3)

"I tried to access before but I couldn't easily figure out how to look at my comments and stuff, but [Instructor 1] told us to push that aside [referencing grading panel] to look at it." (User 11)

Student Preview mode is ON	L.		Settings Exit Pr	
sional Profile > Activities and Assignments > Review Submission History: CP1 Review Submission History: CP1		Clicking on comment has effect, but page may	-52-276	
Assignment Instructions 🗸		Assignment Details 🗸		
Q. Q. D. 1 of 4	Comments & Markups	GRADE LAST GRADED ATTEMPT	94.50/	
Summary Teaching with Technology, Technical Communication and Rhetoric, Composition, Usability, Multimodal	Page 1	ATTEMPT 9/2/17 2-29 PM ago	⊞ 94.50/	
Composition. New Media Pedagogy	aA "New Media Pedagog Andrea Beaudin - 2 min			
Specialties: Computers and Writing, Multimodal Composition, New Media, Pedagogy, Rhetoric, Usability, User Experience Design (UXD).	Andrea Beaudin - 3 min	BeaudinAndreaCV_Jun		
Experience	Alle utimodal Composition Andrea Beaudin - 3 min			
Editor	ABE Multimodal Compositi Andrea Beaudin - 3 min	utes ago Feedback to Learner		
January 2011 - Present Assist in development of Wiki content providing reviews of CCCCs (Conference on College Compositio and Communication) sessions. Recruit reviewers and edit submissions for integration	A bit choppy here. Ho Andrea Beaudin - a mor	nth ago Good job here. I think you	9/2/17 2:35 PM Good job here. I think you can add a bit more detail wit your job descriptions so that your skills really "pop" for	
Graduate Part-Time Instructor, Technical Communication and Rhetoric at Texas Tech University August 2010 - Present Teach English 2311, Introduction to Technical Writing, encompassing genre, multimodality (including		audience.		
rhetorics of design), ethics, and multicultural communication.				
Owner January 2005 - Present	comment b	oox (currently off screen;		
	A STOCK AND CONTRACTOR PORTAL AND IN TO A STOCK AND IN THE STOCK	user must scroll)		
June 2011 - August 2011 (3 months)	110	car must scrolli		



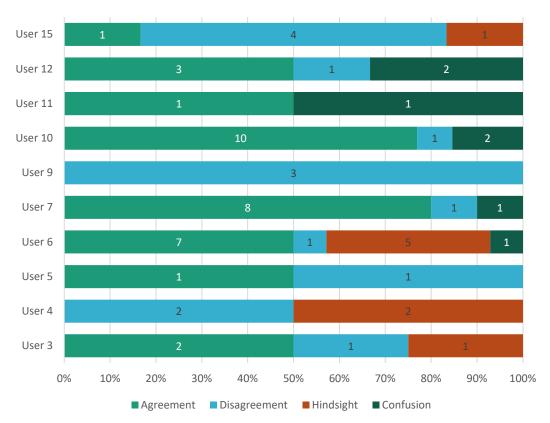
Of users expressed difficulty and frustration due to Blackboard interface

Task 2: Interface

Responses to Response

Category	Description	Example
Agreement	User stated instructor comment was valid and/or useful.	"Well that's a good suggestion. Page numbers." (User 15)
Disagreement	User stated instructor comment was incorrect or did not take all factors into consideration.	"[Instructor 1] said to put it in one column, but if i did it would be too long." (User 4)
Hindsight	User either recognized issue after submitting the assignment, or made what they considered a "thoughtless" error because of inadequate proofreading.	"Where it says to include Mr.—I think I could have automatically have done that." (User 6)
Confusion	User did not understand the issue the instructor noted.	"I don't know what that means." (User 11)

Codes as Percentage of User Response in Task 2



Responses to Response (Examples)

Agreement

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Disagreement

Instructor Comment	User 10 Response	Instructor Comment	User 9 Response	
"Put the specific number of years you've worked with these organizations."	"adding specific years helps with credibility"	 "Perhaps you can break up your last paragraph and provide more evidence." "I think we need to work on design to make the resume more readable." 	up your last paragraph myself, even whe	"I don't like to gloat for myself, even when trying to get a job."
"I think this is a good point to make, but let's make it about the employer rather than	"have to say how they will benefit so makes sense to me"		"Doesn't really matter, because design's not necessary to the job."	
you." "I'm not sure I understand the word 'manually' in this context. Did you do the work manually?"	"I agree. The phrasing is unclear."	"Also, make sure each item you have on the resume is important to the position you are applying for."	"[Instructor 1]'s saying a lot of stuff I have in my thing isn't relevant to my job, but it is."	

University Athletics, Lubbock, TX uning Student ked Division I Football ntained a clean training room eived education of how to work treatments and re s Bar-B-Que, San Antonio, TX

Volunteering

- Ruge Leadership Team Val
- Mission Trips to McAllen TX, 1
- International Church Planting
- Chi Omega's Make-A-Wish Foundation-

Confusion



16 14 12 10 Minutes 8 6 4 2 0 User 03 User 04 User 05 User 06 User 07 User 09 User 10 User 11 User 12 User 14 User 15 User 16 Minutes 4.09 3.87 1.79 10.19 3.04 1.84 9.04 14.23 1.61 5.8 4.135 4

Task 3: Time on Task

Task 3: Create

Global

User 10

- 1.I am going to take care of the grammar in my sentences
- 2.1 am going to organize the resume in a more chronological order.
- 3.1 am going to read it loud to myself that way I will make sure the sentence are still good after the revision

Sequential

User 15

- Checklist for Resume Revisions:
 - Refer to Feedback
 - Fix Name
 - Possibly use a different font for my resume
 - Add page #'s
 - Fix Dollar Signs
- Checklist for Cover Letter:
 - Spacing- 1.5
 - Font
 - Change Intro Paragraph
 - Try and break up 1st paragraph

Revision Lists



7 6 5 4 Minutes 3 2 1 0 User 03 User 04 User 05 User 06 User 07 User 09 User 10 User 11 User 12 User 14 User 15 User 16 2.24 2.48 6.43 2.4 1.79 6.53 5.15 0.51 6.09 0.53 Minutes 1 1.4

Task 4: Time on Task

Task 4: Prioritize

Grammar	• Top for 5 users
Design	• Top for 3 users
Content	• Top for 2 users
Style	• Top for 1 user
Structure	• Top for 1 user

What Was Most Important?

Rationale

Grammar

"fix punctuation errors" because punctuation errors made his job application appear "unprofessional." (User 15)

Structure

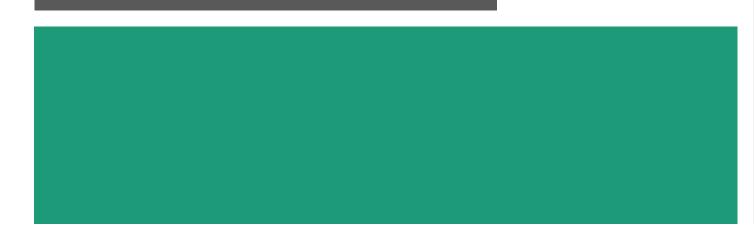
"create clear and concise claims for all paragraphs...because that was, I think, the biggest issue [Instructor 1] had." "The job letter is the first thing they [employers] see, so that makes the good impression." (User 7)

Design

"Design, more unique." "Design can make it stand out or be like everyone else's." (User 9)

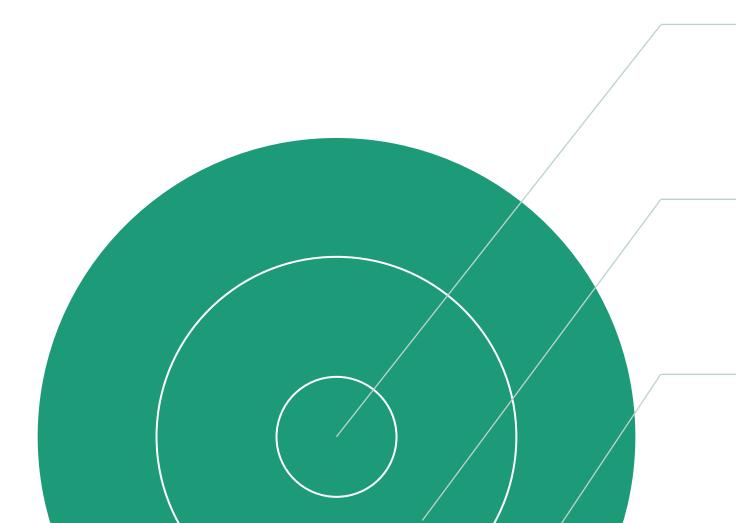
Interviews

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- What makes instructor comments useful or usable?
- What specifically did this instructor do that made the comments useful or usable?
- What makes instructor comments not useful or unusable?
- What specifically did this instructor do that made the comments not useful or unusable?
- Is there such a thing as too many comments?
- What is the best way for an instructor to comment on your writing?

Usable Commentary Is...



Specific

- Explicit directives
- Modeling
- Pointing to resources

Positive

- Moves that matter
- Encouraging, even if error

Meaningful/ Meaning-full

- Context
- Plain language

Unclear

- Vague/ one word
- Jargon
- Not situated
- Why?
- Broad
- CBA

Negative

- Condescending
- Condemning

Unusable Commentary Is...



Many comments → Anxiety

But...

 If detailed and productive, "then you can't have too many, as long as they're healthy" (User 5).



Quality, Not Quantity



Digital

- Connection
- Ease of reading



Handwritten

- Visual
- Tangible



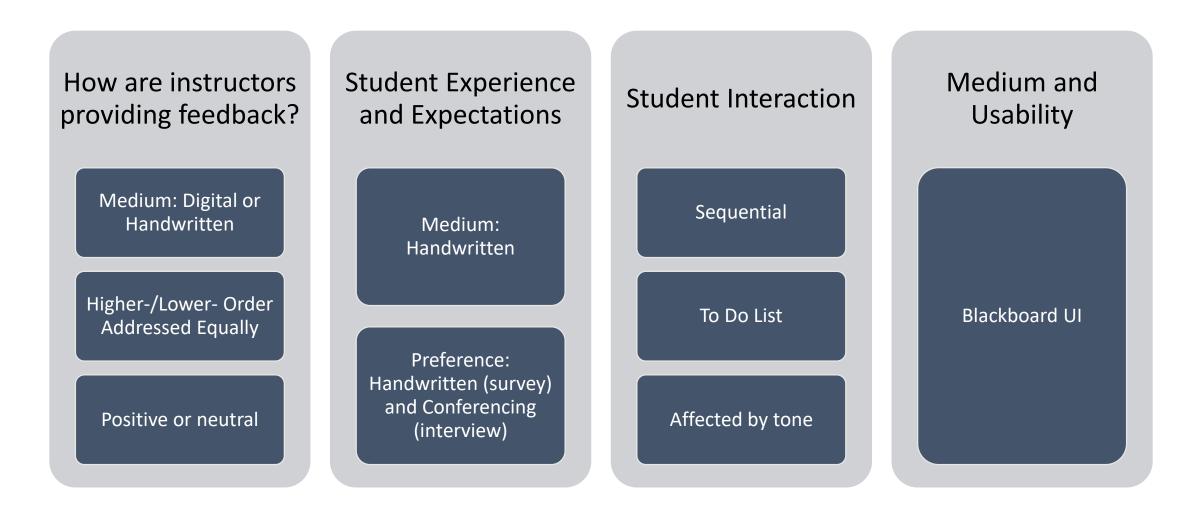
Conferencing

- Immediacy
- Clarification
- Follow up

Medium Matters



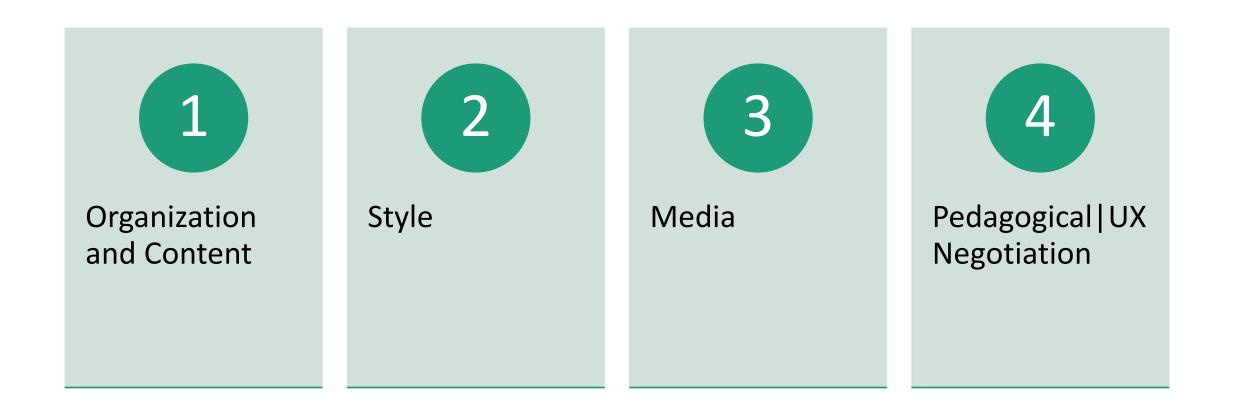
Questions Answered



So what?

Implications and Applications





Takeaways

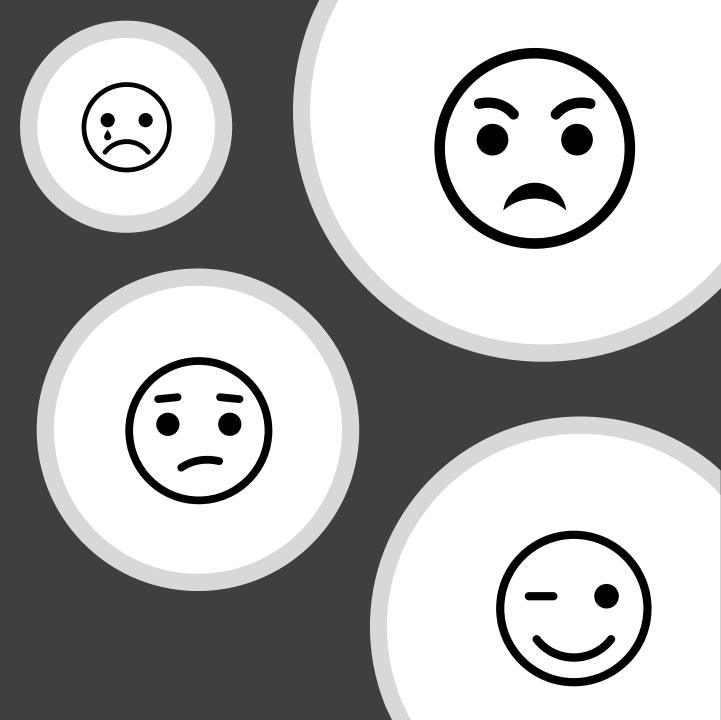
Organization and Content

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- Toulmin Method (claim, evidence, warrant)
 - Context
 - Rationale
- Critique, not criticism
- Honor author's autonomy

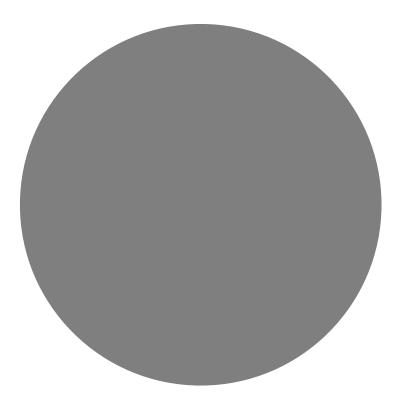
Style

- Humor doesn't translate well
- Perceptions as to negativity
- Perceptions as to judgment

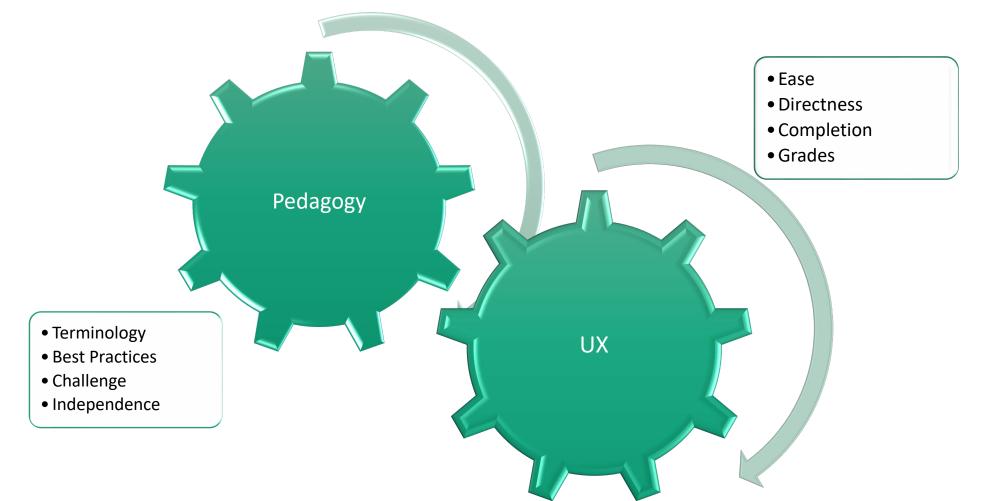


- UDL (Reception, Expression, Engagement)
- Possibilities:
 - Mini-conferences
 - Comprehensive Screencast





Pedagogical | UX Negotiation



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Questions lead to some answers and even more questions

Further Research

Bigger, Better, Faster, More

F

- Limitations = Opportunities
 - Diverse populations
 - Regional and institutional cultures
 - Different classes
 - Multiple modes

New Questions

- Conferencing
 - Retention (Memorability)
- UX and Learning Styles
- Adjunctification
 - Workload
 - Innovation





WARNING

- FINDINGS AND RECOMMENDATIONS MAY CHANGE
- NEW DATA, NEW TECHNOLOGIES= NEW OPPORTUNITIES, NEW PROBLEMS



Students As Users = Students Can Teach Us

... if we invite them to



