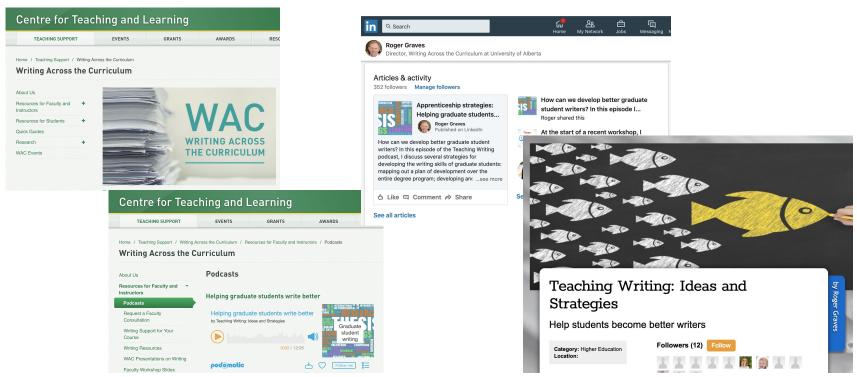


Better Writing through AI: Online writing tools

Roger Graves
Director, Writing Across the Curriculum
Associate Director, CTL

About me: graves1@ualberta; @rogergraves



https://rogergraves.podomatic.com/

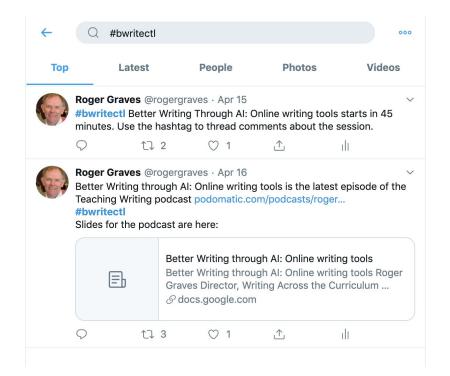
How we roll

Ask questions as they occur to you

Supply answers if you have one

If talk in this room gets too busy, post comments/answers/questions to Twitter at

#bwritectl



OK, maybe I shouldn't have said Al

Some definitions:

```
"Writing" = process; iterative; social; genre-driven
```

"AI" = all inclusive. No?

= software using data tools to facilitate revision/composition

"Students" = everyone here, including me

Focus questions

How can we, as writers, use software tools to write better documents?

What is the range of options?

Who has had success with what?

Others?



My first computer, 1987, IBM PS2 Glorified typewriter

Ways to think about writing: the canons of rhetoric









Delivery (performance of the text)

Writing Competency

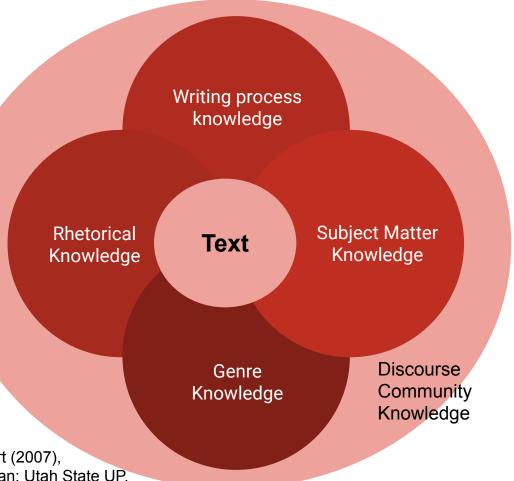
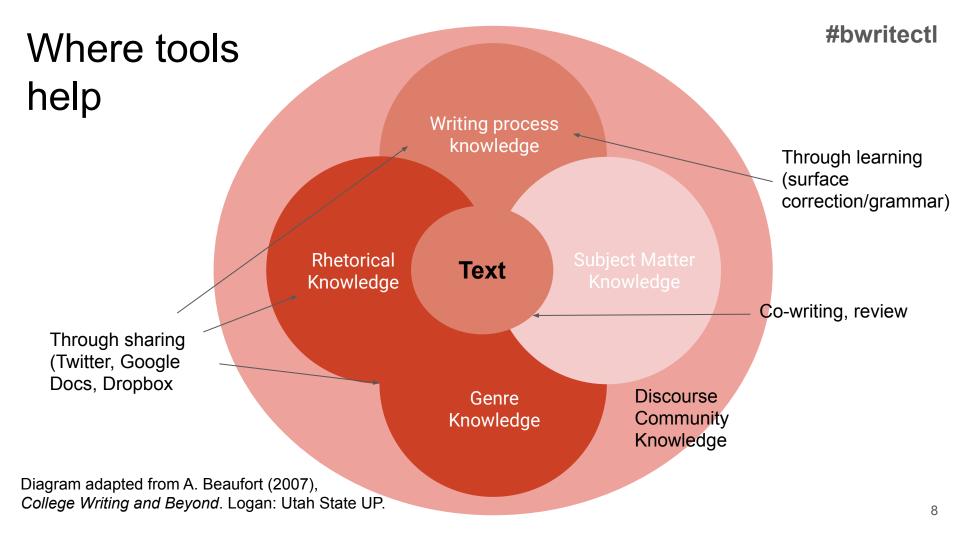


Diagram adapted from A. Beaufort (2007), College Writing and Beyond. Logan: Utah State UP.



Where they don't help: Limitations of software

The most important kinds of knowledge about writing (genre, rhetorical) **cannot**, at present, be developed through AI.

Writing process knowledge (invention, arrangement, style, memory, delivery) only helped somewhat by software applications: **style/grammar**.

Sharing of knowledge **can**, however, lead to better performances in invention and arrangement: Google docs, Dropbox

10 slides on tools

Surface-level, editing

- Grammarly
- ProWritingAid
- GradeProof

Sharing

- Google docs
- Dropbox

Research

- ResearchGate
- ScienceDirect

Social media

- Twitter: #phdlife, #phdchat
- https://www.universityaffairs.ca/f
 eatures/feature-article/wish-knew
 -early-career-professor/

Formalized sharing

- Game of Writing
- Writing groups



ResearchGate: Links to citations

See all > 318 Citations

See all >

40 References



To give is better than to receive: The benefits of peer review to the reviewer's own writing

Article in Journal of Second Language Writing 18(1):30-43 · March 2009 with 805 Reads

DOI: <u>10.1016/j.jslw.2008.06.002</u> **L** Cite this publication

... 11). These studies confirmed prior findings that peer feedback triggers higher percentages of content changes (Lundstrom & Baker, 2009; Yang et al., 2006), which are considered to be signs of better writing (Liu & Sadler, 2003). Finally, and perhaps most significantly given the scope of his work, Topping (1998) reported on a review of 109 articles about peer feedback in higher education that included both L1 and L2 learners, concluding that peer review "appears capable of yielding outcomes at least as good as teacher assessment and sometimes better" (p. ...

... This finding is consistent with those of prior studies highlighting the benefits of peer feedback on L2 writing, for both those who generate reviews and those who receive them (Diab, 2011;M.C. Ho, 2015; Lundstrom & Baker, 2009; Ruegg, 2015; Yang et al., 2006; Zhao, 2014). Moreover, the finding that peer review helps reviewers become better writers was also evident in the results for the research question 2, where the quality of participants' feedback was a stable predictor of their writing performance on the posttest measure. ...

... Moreover, the finding that peer review helps reviewers become better writers was also evident in the results for the research question 2, where the quality of participants' feedback was a stable predictor of their writing performance on the posttest measure. Even after controlling for students' initial writing ability in model 2, and the quality of author responses in model 3, the feedback measure remained a statistically significant predictor, which is consistent with the findings of other studies (Demiraslan Çevik, 2015;Li et al., 2010; Lundstrom & Baker, 2009) showing that feedback can engage students in an active learning mode that helps sharpen both reviewing and other learning abilities. ...

What Is the Influence of Peer Feedback and Author Response on Chinese University Students' English Writing Performance?

Article May 2019 · READ RES QUART

Xin Zhang · O John E. McEneaney

View Show abstract





Journal of English for Academic Purposes

Volume 38, March 2019, Pages 1-13



Academic emotions in written corrective feedback situations

Ye Han ^a [△] [⋈], Fiona Hyland ^b [⋈]

⊞ Show more

https://doi.org/10.1016/j.jeap.2018.12.003

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Abstract

Although written corrective feedback (WCF) is often believed to evoke negative emotions, empirical studies on L2 students' affective reactions to this teaching and learning device are still lacking. Informed by research on academic emotions (Pekrun, 2006; Pekrun & Linnenbrink-Garcia, 2012), the paper reports on two case studies investigating Chinese university EFL



Recommended articles

I am what I have written: A case study o... Journal of English for Academic Purposes, Vo...

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Written corrective feedback from an eco... System, Volume 80, 2019, pp. 288-303



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Authorial voice constructed in citation in... Journal of English for Academic Purposes, Vo...



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Citing articles (1)



Citations

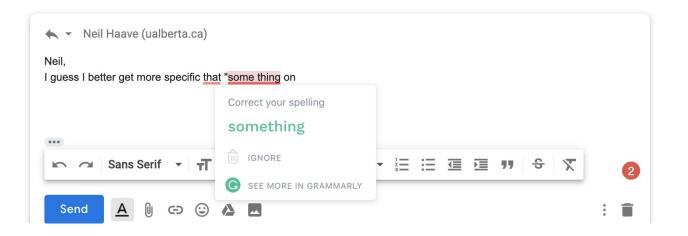




Neil Haave 10:12 AM (26 minutes ago) ☆ ←

to me ▼

Thanks Roger! I have pencilled you into our program. I am assuming it will deal with something helping instructors develop their ability to develop our students' writing? Anyways, I have pencilled in for "Something on Writing." I'll let you know when we need something more concrete.

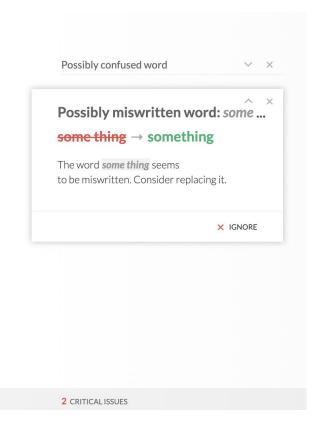






Neil,

I guess I better get more specific that "some thing on







MAY 21 - MAY 27



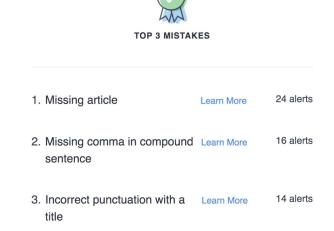
Your Weekly Writing Update

Holy smokes. You were quite the busy bee with your writing this past week. You were more productive than 91% of Grammarly users.

You were more accurate than 71% of Grammarly users. Share MAY 06 13 MAY 20 27

You used more unique words than 89% of Grammarly users.



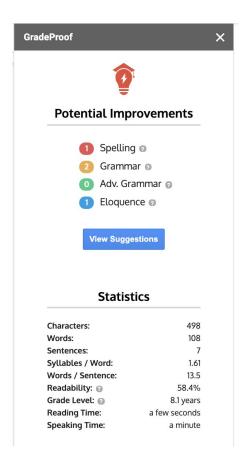






GradeProof (Google docs)

Price: free



ProWriting Aid

https://prowritingaid.com/

Key is ability to teach/learn rather than simply mark errors

A subordinate clause adds context to a sentence. It is not a proper sentence on its own.

A subordinate clause starts with a subordinate conjunction. Common subordinate conjunctions are: after, although, as, because, before, even if, even though, if, in order that, once, provided that, rather than, since, so that, than, that, though, unless, until, when, whenever, where, whereas, wherever, whether, while, and why.

In the following sentences, we have highlighted the **subordinate** clauses using bold italics.

Julia chose to visit the museum since she's an art major.

Since Julia is an art major, she chose to visit the museum.

If you go to the museum, you will learn something about history.

You will learn something about history if you go to the museum.

From these examples, you can see that subordinate clauses can either come at the beginning or end of a sentence. When subordinate clauses come at the end of the sentence, you don't use a comma. However, when a subordinate clause comes at the beginning of the sentence, you set it off with a comma.

Be careful, though, as some subordinate conjunctions can also act in other roles. For instance, the word "that" can also be a determiner, e.g. *That car is red*.



THESAURUS DISABLE RULE IGNORE

Sharing: Twitter

Talk to others

Get ideas (invention)

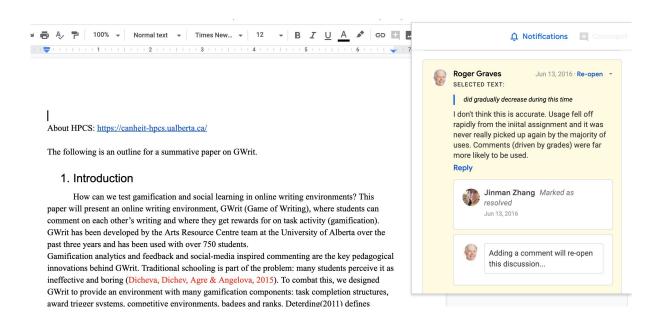
Find resources

Informal; unfocused



Google docs

It is through sharing of comments that we can improve the thinking and ideas in our writing (high-order, invention aspects).



A note on sharing

Phillips, F. (2016). The Power of Giving Feedback: Outcomes from implementing an online peer assessment system. *Issues in Accounting Education* 31, 1-15. DOI: 10.2308/iace-50754

Phillips concluded that students were reliable assessors of their peers; that students value peer assessment; and that **peer assessment contributed to higher academic performance.**

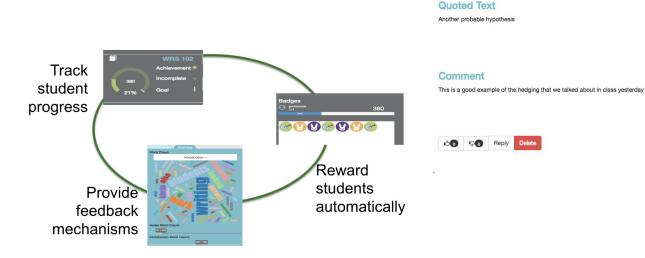
Chen, T. (2016). Technology-supported peer feedback in ESL/EFL writing classes: a research synthesis, *Computer Assisted Language Learning*, 29:2, 365-397. DOI: 10.1080/09588221.2014.960942

in blended or hybrid courses, technology-enabled peer feedback produced more lexically complex responses with more interactive competence.

Implications for your teaching

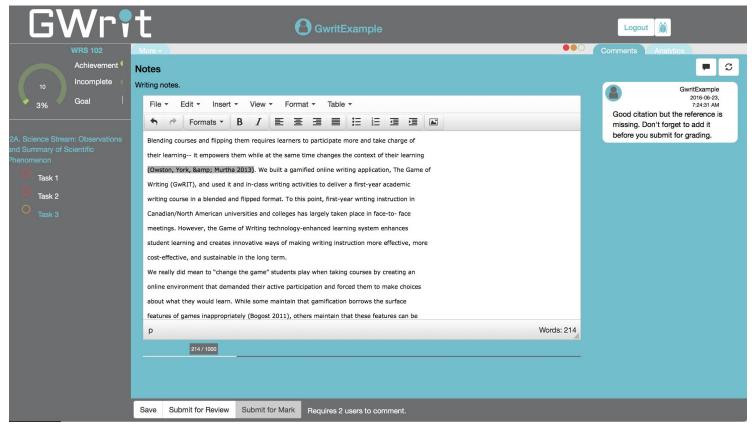
- Much of what we talked about here can be applied to your teaching
- Students need to "tool up" in order to write well
- Students improve their writing by sharing their writing and by commenting on the writing of other students

Sharing: Peer comments by WRS 102 students

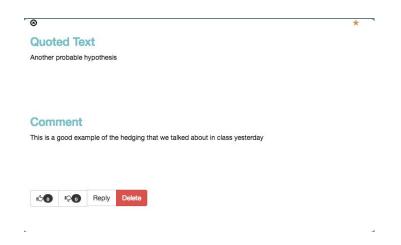




Game of Writing site/application



Social commenting



Uses social media techniques to frame comments by students on each others' drafts

Commenting activity

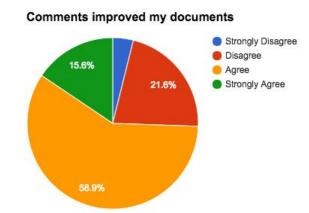
	F2014	F2015	WI 2016
total assignments submitted	3360	1428	1225
total comments	4781	6131 (+28%)	9173 (+50%)
star comments	268 (5.5% of total)	593 (9.7% of total)	1204 (13% of total)
likes by students	55 (1% of total)	395 (6.4% of total)	502 (5.5% of total)
dislikes/thumbs down	4	12	114

Comments useful?

Comments on my writing have helped me improve my documents:

68% Agree or Strongly agree (18%)

25% Disagree or Strongly disagree (4.5%)



"Comments on my writing helped me improve my documents"

One-way ANOVA analyses showed that the difference in scores of the three items, "The GwRIT system helped me obtain comments on my writing before the assignment was due" (p = 0.001); together with "Comments on my writing helped me improve my documents" (p = 0.001); and "The breakdown of writing assignments into Tasks helped me stay on track and complete assignments" (p = 0.001), was statistically significant among all the different terms (see Table 7).

Variable	Fall 2014		Fall 2015		Fall 2016		Fall 2017		df	F	p
	M	SD	M	SD	M	SD	M	SD			
The GwRIT system helped me											
obtain comments on my writing	3.71	1.02	3.63	1.05	4.30	0.91	4.22	0.96	3	6.541	0.001
before the assignment was due											
Comments on my writing											
helped	3.54	1.20	3.56	1.14	4.16	0.94	4.15	0.87	3	5.600	0.001
me improve my documents											
The breakdown of writing											~
assignments into Tasks helped	3.93	0.89	2.70	1.11	3.38	1.20	3.66	1.02	3	9.972	0.001
me stay on track and complete											
assignments											

Table 7. One-Way ANOVA Between Uses of the GwRIT system by term

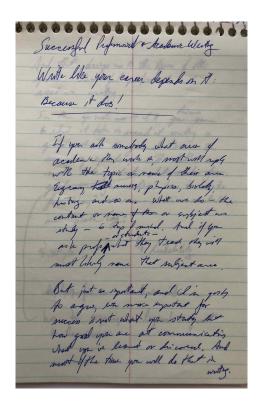
What kinds of writing do you do?

My assumption throughout this presentation has been that you're working on articles and considering how to use online tools to improve those documents

What else do you write? Me:

- Podcast scripts
- Technical reports
- Textbooks
- Presentation slides
- Linkedin articles

When don't you use these tools?



Tooled up: What digital tools do you use?