

A WORD on Audiovisual Feedback, using a well known Word Processor Package

The Benefit of Screen Recorded Summaries in Feedback on Work Submitted Electronically

Paul McLaughlin
School of Biology,
University of Edinburgh

Background

Description of Marking Tool

Can make more expansive comments

Genetic mutations are the most important reasons for diversity. They can occur naturally by failure or error in meiosis or, more importantly, DNA replication (Bertram J (2000) "The molecular biology of cancer" *Mol. Aspects Med.* 21). Also, mutations can come from exposure to radiation or mutagenic agents such as hazardous chemicals. The result of changing the DNA sequencing has a certain effect on the allele of the gene, whether it changes the product of a gene or inhibits it from functioning altogether (Burrus V, Waldor M (2004). "Shaping bacterial genomes with integrative and conjugative elements" *Res. Microbiol.* 155 (5): 376–86). When a mutation occurs in an organism, it genetically changes said organism, resulting in a changed characteristic. If this change is favourable though, the organism will likely pass this mutation to its offspring through natural selection. Mutations are not always advantageous to the organism; rather it is highly unlikely that a mutation will benefit the organism. Cancer is one form of mutation in *Homo sapiens* which will kill the affected individual. Organisms are not continuously mutating as the result would most likely be negative, but certain mutations can prove useful functions such as immunity to disease.

Comment [A3]: Don't insert the title of the paper in the text citation, only the authors' surnames, initials and the year of publication e.g. (Bertram, J., 2000)

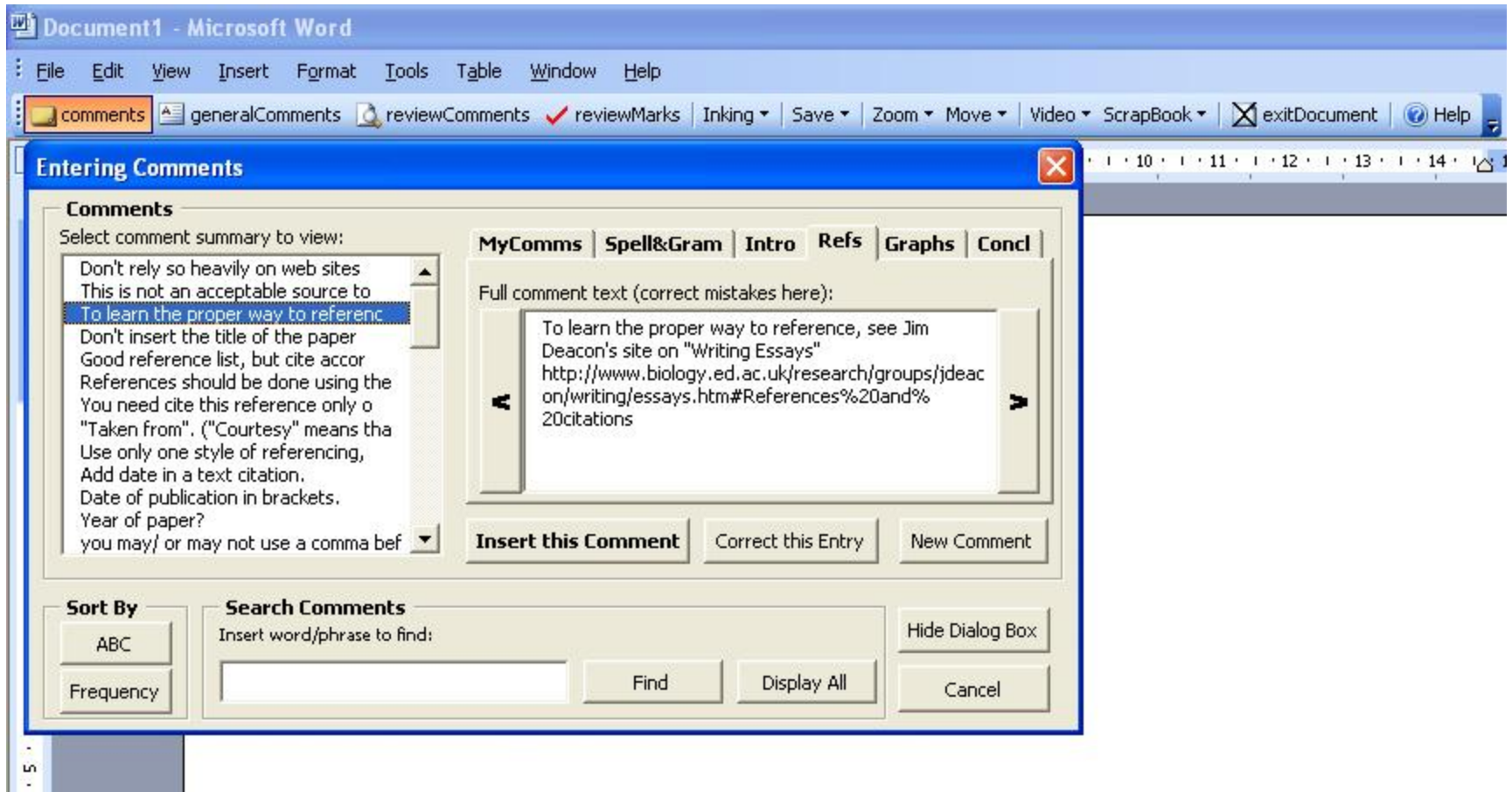
Comment [A4]: Not if it is a silent mutation.

Comment [A5]: Expand this theme. What sorts of mutations do you get?

Comment [A6]: Be careful not to make generalised comments in a scientific essay. Cancer can arise from many forms of mutation, and may kill the affected individual.

Description of Marking Tool

Controlled from a toolbar in Word




Description of Marking Tool

New comments captured as they are made

In order to answer the question of why living organisms are so diverse, it is essential to first define the term diversity. The United Nations Convention on Biological Diversity defines it as “the variability among living organisms from all sources... and the ecological complexes of which they are part. It is also important to recognize that there is much variation both between species and within them. Diversity between species is vast; however there is evidence to suggest that some different species have evolved from a common ancestor (such as the pentadactyl limb). Biological diversity can be put down to many factors, most of which have

Diverse?

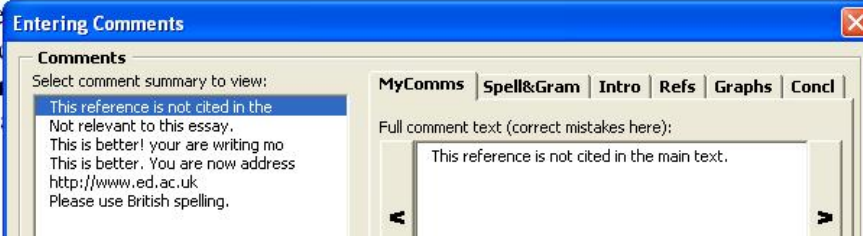


The 'Insert New Comment' dialog box contains a text area with the text 'Please use British spelling.' and buttons for 'Insert', 'Hide', and 'Cancel'.

Comment [A1]: You have not referenced this source in your reference list.

In order to answer the question of why living organisms are so diverse, it is essential to first define the term diversity. The United Nations Convention on Biological Diversity defines it as “the variability among living organisms from all sources... and the ecological complexes of which they are part. It is also important to recognize that there is much variation both between species and within them. Diversity between species is vast; however there is evidence to suggest that some different species have evolved from a common ancestor (such as the pentadactyl limb). Biological diversity can be put down to many factors, most of which have

Mutations:



The 'Entering Comments' dialog box shows a list of comments on the left and a text area for the full comment text on the right. The list includes: 'This reference is not cited in the', 'Not relevant to this essay.', 'This is better! your are writing mo', 'This is better. You are now address', 'http://www.ed.ac.uk', and 'Please use British spelling.' The text area contains the text 'This reference is not cited in the main text.'

Comment [A1]: You have not referenced this source in your reference list.

Comment [A2]: Please use British spelling.

Description of Marking Tool

Existing comments can be amended



MyComms | Spell&Gram | Intro | Refs | Graphs | Concl

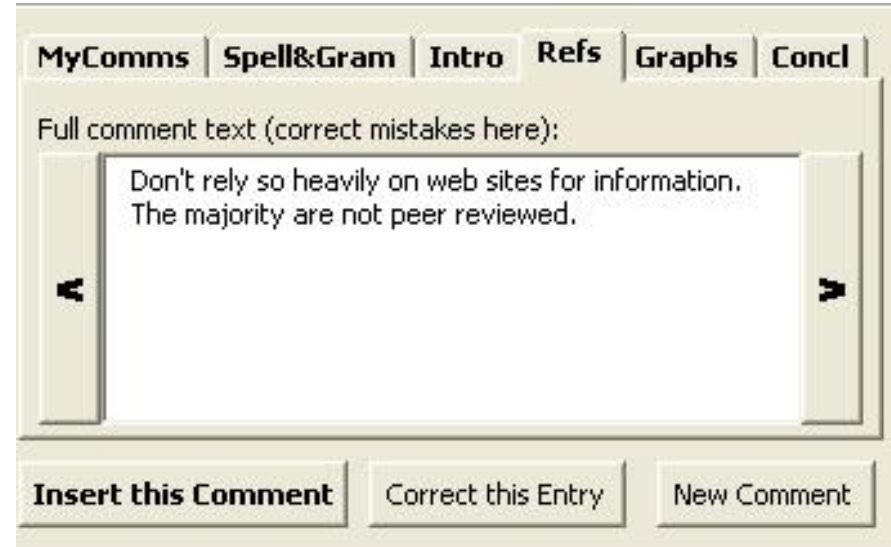
Full comment text (correct mistakes here):

Don't rely so heavily on web sites for information.

Insert this Comment | Correct this Entry | New Comment

This screenshot shows the marking tool interface with the 'Original comment' selected. The comment text is 'Don't rely so heavily on web sites for information.' The interface includes a navigation bar at the top with tabs for 'MyComms', 'Spell&Gram', 'Intro', 'Refs', 'Graphs', and 'Concl'. Below the navigation bar is a text area for the comment, and at the bottom are three buttons: 'Insert this Comment', 'Correct this Entry', and 'New Comment'.

Original comment



MyComms | Spell&Gram | Intro | Refs | Graphs | Concl

Full comment text (correct mistakes here):

Don't rely so heavily on web sites for information.
The majority are not peer reviewed.

Insert this Comment | Correct this Entry | New Comment

This screenshot shows the marking tool interface with the 'Amended comment' selected. The comment text is 'Don't rely so heavily on web sites for information. The majority are not peer reviewed.' The interface is identical to the original comment screenshot, showing the same navigation bar and buttons.

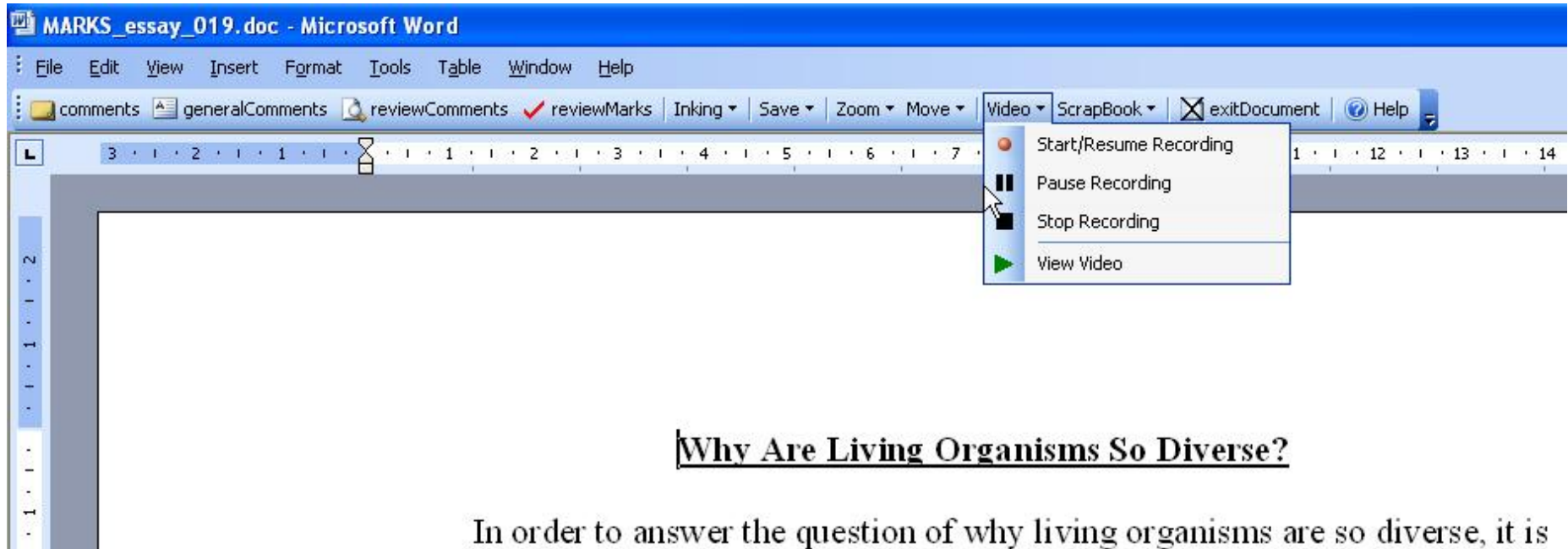
Amended comment

What?

- Mostly very positive reactions – but a few puzzling comments
 - The marker was unfair
- Are comments misconstrued, as e-mails commonly are?
- Can we introduce a tone of voice, extra cues?
- A screen recorded summary

Audio-Visual Comments

Screen capture software (Camtasia)



Audio-visual [example](#)

What Happened?

“Just
awesome!”

“It was very good.
I felt the individual
approach to me.”

“This is the first essay where I
have actually agreed with
every criticism as it was
explained to me properly in the
video.”

“A brilliant way of giving
feedback - written
feedback can sometimes
be ambiguous.”

Compared to written...

“... I properly listened to what my marker was saying, whereas I only skim-read the hand-written comments.”

“... I think the points and overall mistakes of the essay were better conveyed in the video feedback in comparison with the written feedback.”

“It allowed the marker to say more about how my essay could be improved and made it easier for me to understand the marker’s suggestions.”

Favourite Comment

"First when I saw my mark (69%) I was not happy about it at all.

I thought I did better than that but when I listened to the comments on the video I totally agreed with the marker.

Please continue give the video feedback for next year. It would be helpful for other students. "

“Did you go back to your **video** feedback?” (for the next essay)

Interviewer:

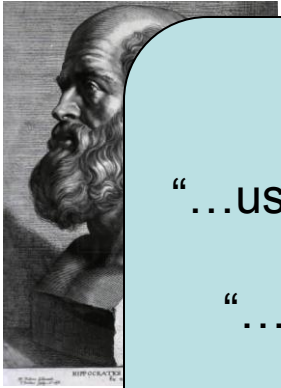
“I definitely went back. Already when I got the feedback, I **took notes** from the video feedback so that I have notes for my future essays.”

Student:

Marker's views

- “I found this a more natural way to give feedback on the general structure of the essay. A bit like one to one feedback.”
- “It was relatively easy to do if I spent a few minutes first just rehearsing the points I wanted to make, ...”
- “... the ability to leave spoken comments has, for the first time, made this an improvement over paper and pen, rather than just an attempt to imitate it.”

Does it work?



Audio vs Text

“...used content from audio feedback three times more often”

“...six times more likely to apply higher levels of Bloom’s Taxonomy on audio feedback than on written”



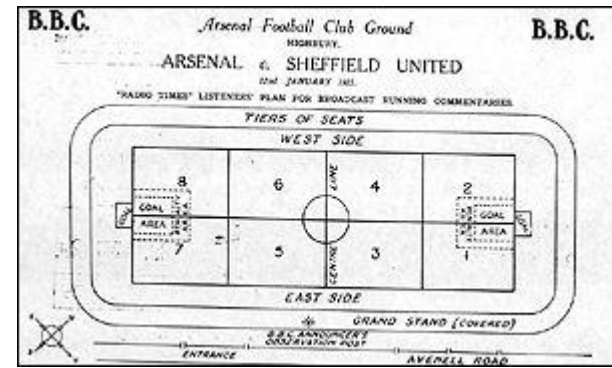
Combination of visual markup as a video with written comments is better than either audio or text alone

Phil Ice – American
Public University System,
Charles Town, West Virginia

Forthcoming paper in *J Educ Comput Res*

Perspectives

- AV is better than A because :
 - More context
 - A feeling of “process”
 - No “back to square one”

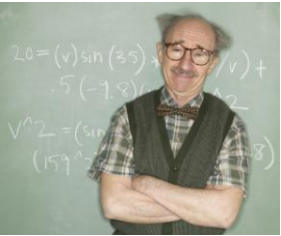


- Need to manage “paper flow” to scale

Student



Course Admin



Dr. A



Prof. B

Markers

Moderation



