I'm writing a paper about the <u>ICE</u> style system.

As background I needed to show why one needed to design a set of word processor styles for writing HTML and then write software to convert documents. I have already looked at the <u>problems with Word 2003</u> and <u>problems also with NeoOffice 2.1</u>, which is a variant of OpenOffice.org.

I have yet to write up an experiment I did with Word 2007, but now it is time to look at Google Docs. It's a web based word processor so it should be good for the web, right?

I've already written about the <u>really really awful job that Google docs does with document interchange</u> (back when it was called Writely) and its <u>awful list formatting</u> which remains. My previous conclusion was that this application would be perfect to use with a set of styles like we do with ICE, so that you could interchange between the limited Google docs interface and word processors.

For this little series I've been trying to put in two chunks of a paper of mine to see how each word processor handles it for both print (PDF) and web (HTML / XHTML) export.

Google Docs does OK on the blockquote issue. There' a button for making a blockquote:



I missed this at first, and tried to make a blockquote using the indent button, but then what I did was switch to the Edit HTML view and put in a blockquote element, which rendered in a little box, which made me realize that Google Docs does understand quotes.

The bad news is that it seems to be allergic to paragraphs – everything is done with break elements (
br />) which is really ugly and just plain wrong, cos it means there is no way to distinguish between a line-break within a paragraph and a paragraph break, and there is no way you'd be able to add classes to paragraphs to change their semantic flavour.

As for lists, it's nearly as bad as the other two word processors I' m afraid, but it can be made to work if you fiddle around.

Here's the target:

 Initially the handle will resolve to the server-side ICE repository, which because it is in the Subversion system is web-addressable, although usually authentication will be required.

The author need not worry about handles at all: they can use links in the usual way to manage their content and the system will manage the creation and management of handles when content is exported from the system.

An internal link would look like an ICE URL:

http://localhost:8000/some-path

When exported it would use a handle resolver:

http://myresolver.edu.au/hd1/4435387897435

Which would resolve to the ICE repository:

http://myrepository.myuni.edu.au/some-path

When the ETD goes from authoring to the examination phase the software will export it from the ICE site to a web site, media such as a CD-ROM or access controlled repository: the handles will then resolve to any online version.

I made a list item, then indented a couple of bits of text under it. The initial result was a one element list, followed by a <diy> with a 40 pixel margin. Not just wrong but fragile too – as this will only work when everything is set up just right.

Except that when I actually simulated typing the document rather than pasting in text and formatting it I was able to figure out how to create a list item, go to the end, hit Shit-Enter and paste in the extra paragraphs I want in the list item, then make a second item and so on. This is far from intuitive and I would never used it for real – far too slow.

And to get the pre formated bits I wanted I had to switch to Edit HTML and enter them by hand. Not something I'd want to do often.

I've <u>published the document</u> so you can have a look.

You can generate PDF, but it has not headers and footers.

Didn't try images in any of these tests but creating and managing images in an online word processor.

There's also no bibliographic solution for Google Docs that I'm aware of, so no way to manage a bibliography except manually. For Word there's EndNote, and the ICE project has contributed an Alpha-quality Zotero extension for Writer which we think is promising.

I tried importing my paper with pretty much the same results as last March, it mangled the document formatting and dumped all my styles. Useless for interchange with real styled word processing documents.

Conclusion

This is not as bad as Word or Writer for HTML, but only if you put in a lot of extra effort, you may as well just get a text editor, with the amount of work you'd have to do to get really good HTML. I can't see how you'd use this thing to write real papers online though, except maybe in the draft stage. That's a pity because if it could be made to respect and preserve styles and tie them to the HTML view then it could be great. As always, if anyone at Google wants to talk it's pt@ptsefton.com.