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The Ends of Editing

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Abstract

Many "ends" of editing in the digital world may be distinguished. One may speak of "end" as in the supersession of one model of editing (the "intentionalist," "definitive-text" model) by another (the multiple texts, multiply-intentioned views enabled by digital methods). One may speak of "end" as in aim: not only the aim of the author or authors, but also the aims of the editor or editors. These questions were already complicated in the print world; the advent of digital methods has both focussed and widened the contests around these concepts. The essay reviews some of these questions, with examples drawn from (inter alia) the utterances of the two George Bushes, from editions with which the author is associated of Chaucer, Dante, and of Armenian texts, from the eColi genome, and from Barack Obama's discussion of different viewpoints on the Constitution of the United States. The essay concludes that a huge shift is indeed underway in the editing world, towards a more open and participatory model of editing and reading.

Texts, we have often been reminded over the last years, are social objects.^[1] Most certainly, the practice of textual scholarship is a social activity: the concern and product of a community. The inaugural symposium of the textual studies working group at Texas A&M University, held on the subject of "Digital Textual Studies" at College Station in October 2006, brought together many of the thinkers and actors in textual scholarship in the digital age. This was an opportunity to refresh the community, and to consider, collectively, where we are and where we are going. The title of this essay (which was also the title of my talk to the conference) reflects something of the collective purpose of this community, and this conference. The conference itself, and discussions around it, spoke out loud that this is an exciting time to be a textual scholar. Traditional boundaries are disintegrating, as new opportunities open up around us. It is a time of great possibility for us, the fellowship of textual scholars — but opportunity brings its own dangers. Times of change are also times of fear, as border wars spring up around the moving boundaries of our subject. We are moving, certainly, but to where? Do we know where we want to go and how we are going to get there? Where, exactly, are we heading?

"Ends" implies not just end-places: it implies direction and intention, the point aimed-for as well as the point reached. For textual scholars, as indeed for literary scholars in general, discussion of intention has become part of a larger discourse. We know, rather too well maybe, that once a text leaves its author's hands, it leaves the author's control. Some textual editors, once upon a time, tried to reverse history by trying to recover the author's intentions, and so to establish the text the author really meant. Some of us, more recently, have come to see this as a rather futile enterprise and have concentrated on mapping the text as social object: it is a thing made by many, with the author's words being only one link in a long chain of circumstances. Most of us, I guess, have placed a small bet on both: we would like our editions to reflect the author's words, and we would like to show all the histories of the text, too.^[2]

This brief outline points up a major shift in editing practice and theory over the last decades. It used to be that editors worried about only one set of intentions: the intentions of the author. If we could recover those to our satisfaction, then we could recover the text, we could print that, place a seal of approval on it, and feel content that we had made the best edition we could, according to the author's revealed intentions. This view of editing rested on a chain of confident assertions. First, that the author had a single intention, or at least a coherent set of intentions; second, that we editors can recover this intention or intentions; third, that one can apply our new knowledge usefully to the text to produce,

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There is a further complication: texts no longer seem so simple. College Station is the home of the George H. Bush presidential library. The single most memorable phrase associated with George Bush, the phrase which arguably won him the 1988 election, was his declaration "Read my lips: no new taxes." Millions of people did, and voted for him. But by 1990, there was a new perception:



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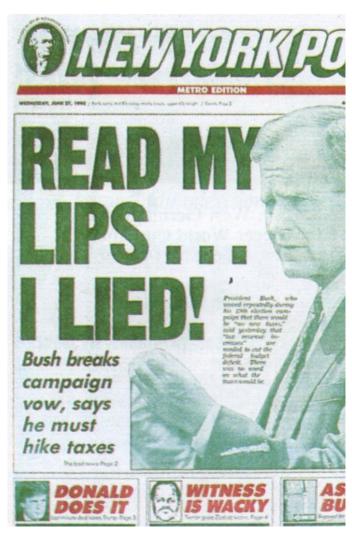


Figure 1. New York Post headline, Wednesday, June 27, 1990

This is the kind of text we textual scholars love. We can argue over the nature of the utterance. Did George Bush actually say these words? Does mouthing the words in front of millions of people, over many months, make it a text? Did he really mean it? George Bush's statement is a candidate for that wonderful category, of very important texts which we all think somebody spoke, but they didn't actually say. John Sutherland — sometime editor of Thackeray, and therefore at least in theory a textual editor — produced an attractive list of things people never did actually say:

- 1. Jim Callaghan: "Crisis? What crisis?"
- 2. Captain Kirk: "Beam me up, Scotty."
- 3. Sherlock Holmes: "The game's afoot!"
- 4. Rick: "Play it again, Sam."
- 5. Johnny Weismuller: "Me Tarzan, you Jane."
- 6. The Bible: "Spare the rod and spoil the child."

- 7. Hamlet: "Alas, poor Yorick, I knew him well."
- 8. George W Bush: "I know that I have never said there is a direct link between September 11th and al-Qaida."
- 9. Wellington: "A damned close-run thing."
- 10. Nelson: "Kiss me Hardy."

In one, and only one of these cases, according to Sutherland, did the person credited with saying it actually say it.^[4] Later in the essay, I will tell you who Sutherland thinks it is.

One could define the business of textual scholarship as the recovery of utterance, and the building of texts from utterance. We see now that it is not enough just to recover what was actually said: we have to discover who said it, who heard it, what those hearing thought they said, what the person speaking thought he or she said — and then, repeat that exercise for every act of repeating what was, or was not, said.

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Actually, I think textual scholars always knew this, but it is the business of theory to persuade us that what we have always been doing is a new-minted discovery. And, there is a distinct difference for us as editors now, a difference that was directly the result of technology. Our ambitions, as editors, used to be severely circumscribed by the printed page. Among the many things we might report, we might have space to print one, and one only: and usually, this was the text of the utterance that we thought we had recovered.

Now, like Texas, the wide-open plains of digital technology lie before us. We are invited to fill this space with our editions: how should we do this? What did we do, when we first say the endless space of gigabytes of storage? A small history lesson is in order. Here is my first, published over ten years ago: Geoffrey Chaucer's Wife of Bath's Prologue on CD-ROM, published by Cambridge University Press in 1996 [Robinson 1996]. Rather notoriously, this gives you all the manuscripts of the Wife of Bath's Prologue, in transcription; in what we now see as rather poor images, but which seemed marvellous then; and we also included a full word-by-word collation of all the manuscripts.

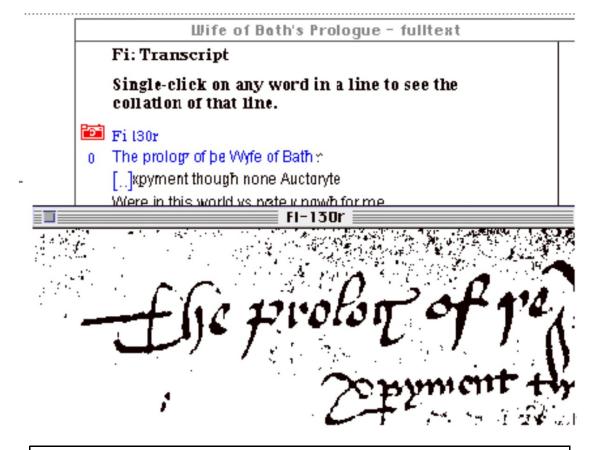


Figure 2. The Wife of Bath's Prologue on CD-ROM

When I look back at this edition, I do wonder: just what did I think I was doing? One answer is that I believed then, as I do now, in Carolyne Macé's wonderful dictum: "Every text deserves to be well-edited."

10

9

Several of us heard Caroline say this in the European Society for Textual Scholarship in Alicante in November 2004. However, she was speaking without a written text, and denies that she ever used quite these words: the wonders of utterance, the magic of textual scholarship. To me, a "well-edited" Canterbury Tales in the electronic medium, in 1996, meant first and foremost to make all the material available. So that is what we did: over a thousand manuscript images; tens of thousands of words of transcription; descriptions of each manuscript; massive spelling databases.

11

But we did not ourselves provide any analysis of all this material. In retrospect, our strategy — of publishing materials without analysis — might have been a mistake. There was much rhetoric at the time about the glories of so-called "unediting": presentations of the documents which were simply that, presentations of the documents.^[5] We were then going through one of those periods of academic self-flagellation and guilt, along the lines of, who are we, as privileged, and usually male, academics in comfortable western universities, to impose our views on anyone else? (Actually, in those days we all had short-term contracts so we were not comfortable at all.) Who are we to privilege one text over another, by "foregrounding" it in some way? So welcome to the wonderful world of electronic archives, where all texts are equal, where editors gracefully withdraw to leave their readers the maximum freedom to make up their own minds about what it is they are reading. By publishing the materials without the analysis people thought: ha! An electronic archive! Wonderful! And, as often happens, I found myself praised for what seemed to me quite the wrong reasons.^[6]

12

The truth is rather different — or at least, my intentions were different. Our real intention, which we declared as often and as loudly as we could but never, apparently, often and loudly enough — was to use all the tools at our disposal to try to understand the textual tradition. After we had understood the textual tradition, then we would think about how we might edit the text, and how we might present what we had discovered. By 1996, when we published the Wife of Bath's Prologue, we had already moved somewhat towards this goal. But we had a lot of pressure on us to publish that year. We were not ready then to publish the analyses, but we were ready to publish the materials: so, that is what we did. We then did indeed publish the analyses in print form, the next year, in the project's Occasional Papers series [Robinson 1997, 69–132].

13

We went further than this, in the next major project publication, Elizabeth Solopova's edition of the General Prologue [Robinson 2000]. We included in this a full stemmatic analysis and commentary. With various partners, we had developed some remarkable tools which we used to make this analysis and commentary. We also included the tools we used to make the analyses: the variant database, and the evolutionary biology software. We included also a variant-by-variant analysis of the key variants in the General Prologue: altogether, many hundred pages of editorial text altogether. Indeed, we always intended to include all this in the Wife of Bath's Prologue: our aim did not change between 1996 and 2000.

14

But something did happen between 1996 and 2000. Along the way, too, we had found ourselves a new aim. When we made the Wife of Bath's Prologue, our editorial intention corresponded perfectly with Caroline Macé's dictum: we just wanted to edit the text. We did not think at all about who might use it, how they might use it. I suppose in this, we are like many editors. We start editing a text because we are curious. We want to know what is going on inside that text. How did it get made? Where did it come from? How did it get published? What happened next? Even when we do come to try to explain to others what we have found, we assume that anyone else who is interested in this will be prepared to make a fairly considerable effort to understand, as we have done. So, we do not have to try too hard to make our editions attractive or accessible.

15

This view corresponds to the traditional cleavage between "scholarly editions" and what you might call "reading editions" — or, popular editions. Scholarly editions — the full-dress performances of the Center for Editions of American Authors, or of those published in the great Oxford and Cambridge series — were made by textual scholars for other textual scholars. "Popular editions" are made for ordinary readers.

Many of us, around the mid '90s, thought that the electronic medium offered a way past this separation of the scholarly

editor from the ordinary reader. The web had just hit and those digital spaces had got even vaster. Now, we could imagine that we could put our edition on the web and everyone everywhere — every reader — could see what we have done. We could cut out the middleman, the publisher, the chain of other scholars and editors who take our work and repurpose it for different audiences, different publications. No, we could do it all: we could take all we have learned, all the materials we have so lovingly gathered and slaved over, and we could give it to everyone.

In our General Editor's preface to the 2000 General Prologue CD-ROM, Norman Blake and I put this as follows:^[7]

17

One might summarize the shift in our thinking in the last two years, underlying the differences between the two CD-ROMs, as follows: the aim of The Wife of Bath's Prologue CD-ROM was to help editors edit; our aim now is also to help readers read.

So here is a new intention indeed. And following this new intention, we asked ourselves, what can we do to reach all those readers who, we are sure, must be out there somewhere? One way is to be useful — to include information that might help the reader read. Another way to reach readers is to try to make our publications attractive. That led us to develop a whole new interface for our publications. We took the opportunity to remedy the other deficiencies we saw in the DynaText publication system: chiefly, its inability to display a single page of transcription at a time, or to do proper keyword in context type search reports. The idea behind this was to make this as easy to use as possible, as transparent as possible, and even beautiful. I don't know how far we got towards that aim. But at the very least, we did make something which looked nicer than the DynaText interface we had before.

This goes some way beyond just "making material available." To speak only of the publications we have put out since 2000 under the Scholarly Digital Editions imprint, we commonly present what you could call "text plus": one or many texts linked with many other texts, typically with links from every word in the text to many texts. In the "single tale" publications from the Canterbury Tales project, or in Prue Shaw's edition of Dante's *Monarchia*, every word in every version is linked to every word in every other version. In the *Parliament Rolls of Medieval England* every paragraph of transcription of the original roll is linked to a matching paragraph of translation into modern English, with further links in each parliament to introductions, appendices and images. A different approach to "text plus" was taken by Jos Weitenberg's Leiden Armenian Lexical Textbase.^[8] The Armenian and Greek lexica and wordlists within this distinguish some 100,000 distinct lexical forms. Every one of these lexical forms is linked to every occurrence of any related word through the texts included in the textbase, spanning the major period of classical Armenian down to the eighth century. In turn, every word in these texts is linked back to its lexical form, and categorized by its part of speech.

It has been pleasing to do this work, and pleasing to bring such editions to readers. But I confess that in one way, I am disappointed. We thought that once we had shown that you could make such editions like this, many people would follow. Actually, very few people have followed. Why is this?

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There are several reasons. The first reason is this: these editions are very difficult to make. Making a real electronic scholarly edition is far, far harder than writing a book, and takes far, far longer. Anyone who has had anything to do with electronic editions will tell you this. Of course it does not have to be that way. You can have the library photograph your manuscript, you can stick the photos on the web, you can make a transcription in HTML, or Word, or something, you can write a glowing introduction, and you can say that is an electronic edition. Certainly, that is much easier. But if we are talking about a real digital scholarly edition, one that looks at every word in every significant source, which transcribes every word into electronic form, which checks the transcript over and over again, which then collates every word in every version, which checks and alters and fine-tunes the collation over and over, which then corrects the transcription again, then the collation again, which then tries to work out what is going on in all those versions by looking at the collation, which then writes a commentary explaining all this, then prepares an edited text using the conclusions from the commentary, then starts checking how the transcripts, collations, commentaries, editorial tools all appear...if this is what you want to do, here is what I will tell you. Sell the family dog. Lock the door to your study and don't come out for twenty years.

A very few people indeed have run this course. Prue Shaw has: she started work on the Monarchia nearly forty years

ago. She made her first electronic transcripts, using an ancient terminal in the Cambridge computer centre, twenty-five years ago. Jos Weitenberg has: he began collecting electronic data for his Armenian in the 1970s. He still has, in his office in Leiden, an ancient Windows computer running an antique version of Windows with a DOS prompt, so that he can use the same programs he has been using for twenty years now.

But if that were the only problem, that would not be too bad. After all, many academics like working for irrationally long periods on obscure projects, on texts nobody has ever heard of, all on their own, inserting arcane codes into strings of symbols. If making these editions just meant working a very long time on your own, that would be fine. But it does not. These scholars could not make these editions on their own. At every point, they needed our help. For the *Monarchia*, and now the *Commedia*: I estimated that Prue Shaw and I have exchanged some 2000 emails over nearly twenty years of collaboration. We have spent countless hours, in Italy, in England, in Australia, poring over the details: how do we transcribe this, collate that, show this and that together. As to the Leiden Armenian Lexical Textbase: I met Jos first in 1998, and once more have spent many weeks in Leiden; he has visited us, in Leicester and Birmingham. I have not even mentioned our work with the Institute for New Testament Research in Munster: since 1998, I have spent at least four weeks every year, some years more, helping them work out how to move their massive work on the 5000 or so manuscripts of the Greek New Testament into the digital era.

There is a model of collaboration which I see everywhere. The model is "Scholar + Tame Expert":

- 1. The scholar does all the scholarly work
- 2. Sometimes, he or she meets with the expert
- 3. At many points the scholar and the expert discuss what is being done; the expert reviews it; takes samples; says what is wrong or right; passes it back to the scholar
- 4. At the end: the scholar passes the work over the expert, who spends much time putting it into publishable electronic shape and finally puts it on the web (usually)

This is how we worked; this is how I see that IATH works, and how Kings College works, and how Michigan works, and how Brown works, and indeed every place that does the thing called "humanities computing" works.

Twenty years ago, ten years ago, when we were still in what you might call the days of heroic experiment, this was the way we had to do things. We did not know how to make editions such as these, so a few experts needed to work with a few scholars to make them. In Michael Sperberg-McQueen's metaphor, we were the canaries sent into to test that the air was breathable. [9]

But we are now past this time of experiment. We now know how to make these editions. But the model, of many scholars dependent on a very few technical experts, still holds. Now, for we technical experts, for the few of us working at the few such technical support centres, this is a very pleasant model. In a time of expanding funding for digital-based research, we have done well out of this.

However, this is a broken model. In this model, there are many scholars, and few experts. This has all sorts of consequences. It means that the only scholars who can do this work are those with access to the experts. Generally, that means you have to be at Virginia, or Kings. Or, you have to have a problem that really interests one of the experts. Or, you have to have a lot of money: which generally means, you are editing one of the "canonical" texts which everybody has heard of. If you are editing William Gilmore Simms, don't bother. Or, you can marry an expert, or, if the law won't allow that, you can form a stable long-term civil partnership with an expert. This means that we divide scholars into the very few who are able to make such editions because they have this access, and the very many who stand on the sidelines and watch. We should not be surprised if a few of the very many whisper behind their hands, saying, hmm, these digital editions, they cost so much, and really they aren't worth making — the people who make them aren't Real Scholars, and so on.

We should be moving past experiment, to a point where everyone can do what, so far, only a very few of us have been able to do. But we are trapped with a model of how humanists work with computing tools which does not allow this. Imagine how absurd it would be, if every time you wanted to use email, or to write a Microsoft Word document, you had

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to go consult an expert. It should be possible for any scholar, with reasonable computer skills, to make an electronic edition such as those we have made. The solution to this is not to create more centres for humanities computing, like Kings or IATH. The solution is not to create more experts. What most scholars need is not IATH, and not Kings, and not more experts: they need tools and resources to let them do what they want to do.^[10]

So: better tools. The tools for making electronic editions — and I know this, because I have made some of them — are usable by a very few, and only then with constant nursemaiding and attendance from their makers. I am not the only person to recognize this. There are some impressive enterprises around, which aim to provide a new generation of tools for scholars: the TAPOR tools now emerging from Canada; those coming from the NINES and related enterprises in Virginia; the EPT suite which Kevin Kiernan is putting together. In Europe, the TextGrid and Interedition partnerships are moving in the same direction.^[11]

28

The aim must be, as I have put it elsewhere, that any scholar who can make a print edition should be able to make an electronic edition. In fact, I think we can do far better than this. Our aim should be that every one who can contribute something to an edition should be able to do so. Suppose that a knowledgeable reader sees an error or omission in a transcript or a commentary. He or she can correct it in his or her own view of that transcript or commentary. Then, in Wikipedia-like fashion, the reader could republish the corrected transcript or commentary, and others could read them.

29

Take the *Parliament Rolls of Medieval England*, for example. There are tens of thousands of names included in this. The editors do not provide any annotations on these. But other people could. Here is a task for years of work: to identify and annotate all these, to allow retrieval of say, all references to the earl of Arundel, or to the Isle of Ely, or to all documents dealing with marriage. Take the *Commedia*: Shaw is not going to provide any annotation of the many hundreds of names which appear in the edition. But others could.

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This amounts to a new paradigm for scholarly editing. Here is the old paradigm:

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- The edition is made by a single scholar or single scholarly group
- The editor determines what is presented and how it is presented
- The editor controls who contributes what to the edition
- Only the editor can alter any word of the edition

Here, now, is the new paradigm:

32

- The edition is made by the reader from whatever is available
- The reader determines what is read and how it is presented
- The reader controls the choice of materials
- Anyone can alter any word and invite others to read the altered text

Some time ago, I referred to this model as "fluid, collaborative and distributed editions." Michael Sperberg-McQueen calls it the "coral reef" model: every polyp adds its bit to the whole. Peter Shillingsburg calls these "knowledge sites." [12] You can see elements of this in the blog, or in the many Wikipedia-style pages which have sprouted up everywhere.

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This will not happen on its own. Just what is going to be needed, to make all this happen?

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First of all, the lifeblood of this is going to be texts made freely available to everyone. I want to put the transcripts of Canterbury Tales manuscripts up out there on the web, for everyone. If this all works, I am very soon going to see those transcripts turning up all over the place, in all kinds of contexts, with all kinds of annotations, being used for all kinds of things I did not expect. I think this is wonderful.

35

I have to say, not everyone feels this way. There are people who think, I transcribe a text. It is my transcription. I want to be the only person who changes it. I want to control who looks at it: only my friends can touch it, and even then, only after they ask me very politely. Now, the view of the dynamic text I propose cuts right across this. In this view, the text belongs to everyone who works on it. Further, anyone can work on it, without having to get the permission of anyone else. There are many people in the academic world who find the idea that the text they are working on is not their

I believe that people who think this way are backing themselves into an intellectual cul-de-sac. More than that, with one important exception, any texts which come with such restrictions are doomed. If you make it difficult for people to use your texts by insisting that everyone needs your permission, why, people won't use your texts. They will find other texts, and that is the end of yours.

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I spoke of an important exception. The important exception is this: high-value, fully-published work which combines both exceptional scholarly effort with purposeful design and publication. An example of this is the Nestle-Aland text and apparatus: there are decades of work behind this, by the scholars in Münster, their partners, and their publisher. This is of such high value that, indeed, people are prepared to pay for this. I expect that some of the materials made by the Canterbury Tales Project, and from those publications I showed earlier, will also fall into this category. When our ideal reader of the future builds the edition they want to read, they might choose to buy one of these, and place it at the centre of their desktop: they will annotate this, and they will surround it with free texts from everywhere — some of which they might annotate, extend, correct, and pass onto others, also. We don't need to imagine that everything will be free for everyone. Indeed, I think a healthy digital economy of editions will have both free materials and paid-for materials, materials which are fixed and materials which are fluid, working alongside in a way that has not been possible up to now.

We have, in fact, a remarkable example already of how collaborative electronic editions can be made, read, used, and remade in an endless chain: in what is certainly the largest and most productive act of collective making and reading of texts there has ever been, and one which, in the centuries to come, is likely to transform our lives. Here is one of the places where this reading and making has been happening:

39



About coliBASE

coliBASE is a database for comparative genome analysis of Enterobactericaiae, e.g. Escherichia, Shigella etc.. The project was originally conceived in 2002 by Roy Chaudhuri and Mark Pallen at the University of Birmingham, as part of a BBSRC funded Exploiting Genomics (ExGen) consortium.

 $\textbf{Figure 3.} \ \, \textbf{Colibase.} \ \, \textbf{http://xbase.bham.ac.uk/colibase/about.pl}$

This is the ColiBase database, the genome of the E.coli bacteria at the University of Birmingham. Here is a fragment of the text of part of the Salmonella enteritidis bacteria (actually, region 1-20000 of Salmonella enteritidis PT4 Contig sePT4_219c07_q1kw.). This is what is called an annotated gene:

FT	gene	complement(550771)
FT		/gene="sePT4_219c07_q1kw_ORF_1"
FT	CDS	complement(550771)
FT		/gene="sePT4_219c07_q1kw_ORF_1"
FT		/translation="MKRLIPVALLTTLLAGCAHDSPCVPVYDDQGRLVHTNTCMKGTT
FT		QDNWETAGAIAGGAAAVAGLTMGIIALSK*"
FT	gene	9011077
FT		/gene="sePT4_219c07_q1kw_ORF_2"
FT	CDS	9011077
FT		/gene="sePT4_219c07_q1kw_ORF_2"
FT		/translation="VNCKNYGECRGKRRGGNSGDKDVPFKKASEDASVYRLIMMAIKS
FT		AFYNNEEYWHEEDS*"
FT	gene	complement(10094065)
FT		/gene="sePT4_219c07_q1kw_ORF_3"

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Figure 4. An annotated gene from Colibase
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Now, here below is the gene itself, with each three-letter sequence spelling out a word: one of the twenty amino acids, or a control code:

gttatcggat aatgacgccg acgcgtttta aacatcttcg tagagtggat aaaaaccgtt 60 120 ttagtcaacg tgatttcccg ccatatatcc gcctgaacca tcgaatgtga accgtgctga 180 agtagatgta caaacggctt ttacttacgc ctctaataag caatagagat attcgctgag gactaaaaat ctggcccatt aggctatttt atttgccagt ttggcctagg gacagtgctc 240 aaaatcctca tgtattacgt gtatgttccg gtttatatcc agactgtctg taataattac 300 gcctaatgat cacgctctaa gtcttactgt ataaagcctg tttgtaatgc ggcttacgat 360 gctatcaagc tataattttg tctgcatcgg acaaggaata gaataaatac catcgggatg 420 ggcgagtaag aaaagggagc gttttatcgt gttaactttc gggggataga ctgaacagat 480 tacgtcgctg agtatcctta cgacctttat attattactg aaagcgcggc attgccgcgc 540 ctgcatgtat catttagaaa gcgcaatgat acccatcgtc aaccctgcta ccgccgcagc 600 gccgccagcg atagcgcctg ctgtctccca gttatcctgc gttgtacctt tcatacatgt 660 attggtatga accagccgcc cttgatcgtc ataaaccggt acgcagggag aatcatgtgc 720

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Figure 5. The text of a gene.
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Over the last decades, evolutionary biologists have created an astonishing array of tools to read these texts. For example, you can compare the texts of genes. Here is a comparison of part of this gene, *Salmonella enteritidis* PT4 with the related region from region from *Escherichia coli*:

xBASE Alignment Viewer

Viewing Salmonella enterica subsp. enterica serovar Enteritidis PT4 NCTC 13349 positions 4679433-3584, and the equivalent regions in: Escherichia coli CFT073

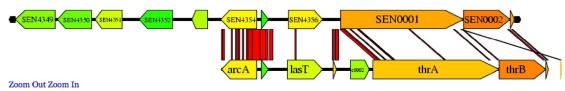


Figure 6. Comparison of two genes.

These, of course, are not just academic exercises. On the basis of diagrams such as these, scientists calculate exactly what parts of the genome are responsible for which diseases and develop medicines to attack those diseases. This remarkable work has only been possible because of the agreement that the heart of this information should be freely available to all researchers — an agreement which has not at all excluded commercial agents from using this data, since tools and other data are not free. I think this is a good model for how we can work together. For us, digital images of original sources and transcripts are the raw genome data. Make those available, free, for all to use, change,

40

43

44

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annotate, supplement, compare, discuss, and all things will be possible.

Finally, I want to return to my list of things which people did or did not say, according to Sutherland. In the year 2006 when I gave this talk in Texas, during the presidency of George W. Bush, it was assumed that it must be the Bush quotation which, according to Sutherland, is the one real quotation. Sutherland says, "You can hear it, live, on Neil Young's 'Let's Impeach the President,' along with the original quotation in which Bush did assert there was a link." This sounds convincing. But actually, so far as I can discover from downloading the Neil Young album, it appears that, at the very least, Sutherland was listening to a different album from any I can find: there is lots of Neil Young on the album, but no George Bush. Indeed, while Young makes many accusations about Bush, he does not make this particular accusation. And furthermore, so far as I can discover, it appears that Bush never did say what Sutherland says he said. The nearest I can discover is this statement, by Bush in a press conference on March 20, 2006:

I don't think we ever said — at least I know I didn't say that there was a direct connection between September the 11th and Saddam Hussein.

And in fact, so far as I can discover, Bush is telling the truth: he never did say there was such a direct connection. Indeed, on several occasions he was invited by the press to make this direct connection, and each time he refused. Of course, he and others did say many other things about Iraq and Al-qaida, but this one thing, at least, he did not say. You could conclude several things from this. You could conclude that John Sutherland is rather careless with the facts. You could conclude too that Bush is not as stupid as his critics think — and maybe, that his critics are not as clever as they think they are. But here is where the internet is at its best: in a few moments, one can carry out the classic tasks of textual scholarship on this particular utterance and text, or rather non-utterance and non-text, and establish (as apparently Sutherland did not) that Bush did not say what so many of us thought he did.

In fact, the story does not end here. In the last paragraphs, I presume that you, the reader, think that what Sutherland alleged is, Bush said that there was a direct connection between September 11th and Saddam Hussein. Now, turn back a few pages and see what Sutherland actually declares that Bush said (or, go to the *Guardian* story published on 3 October 2006, available online at http://www.guardian.co.uk/g2/story/0,,1886387,00.html).

What Sutherland actually has Bush say is *not* "I have never said there was a direct link between September 11 and Saddam Hussein" but "I have never said there is a direct link between September 11th and al-Qaida." Now, this is a total nonsense. It is such a total nonsense that when I read this, I presumed that the end of the quotation was "Saddam Hussein" not "al-Qaida." All who heard the lecture in Texas thought the same, and indeed Sutherland seems to have think too that he wrote "Saddam Hussein" not "al-Qaida." Internally, we edit what we read so that it conforms with what we think we know. We all think we know that Bush said, many times, that there was a link between 9/11 and Saddam Hussein, so as soon as we see a quotation from George Bush beginning "I have never said there was a direct link between September 11 and..." we automatically the last words as "Saddam Hussein" — and fail to see that the text actually says something quite different (indeed, it seems that the author himself failed to spot this). It is particularly ironic as the whole of Sutherland's article is about how we prefer misquotation to what people actually said — and yet Sutherland is guilty of misquotation in the central example of his whole article.

One may ask, does this matter? Consider, again, the analogy of texts and DNA sequences I raised earlier. Among the billions of letters of DNA sequences, only a fraction — as little as 2% in the human genome — actually has a known function, in that it encodes proteins of clear value to their host genome. The rest is predominantly "junk DNA": changes in this have no effect on the organism. As I write this, America is in the midst of the most hotly-contested presidential campaign in decades. The country is awash with words: from the candidates themselves, endlessly repeated, subtly or not so subtly altered as they are repeated; from commentators, across all the media, through into the street, the home, the workplace. Most of these words will be the equivalent of "junk DNA": they will float across the airwaves, through our minds and speech, to nothing. But some will have a huge impact. A single catchphrase can win the election: we have already seen how "Read my lips..." helped George H. Bush in 1988; in 1992 it was "It's the economy, stupid." A single error, a single casual phrase, can lose the election; candidates and their staffs live in fear of waking up to yesterday's gaffe on the front pages of today's papers. It is the human equivalent of a single rogue mutation bringing on a

47

46

catastrophic illness. Sometimes, we textual critics ask ourselves, does our work matter? Most of the time, the many words we broker are like junk DNA: changes in them have no effect. But a few words might, just might, have an effect out of all proportion.

This brings us in a circle, back to the ends of editing: conceived not as an end-point, but as an aim. American presidential politics has been a tune playing throughout this essay, and it is apposite that we should find illumination of our aims, as textual editors, in an argument advanced by one of the candidates for the 2008 election, Barack Obama. In his book *The Audacity of Hope*, Obama considers different views of the U.S. Constitution. Is it to be understood as "constructionists" (broadly, conservative Republicans) see it, as a fixed set of rules for governing a state, so that we can surely determine modern arguments by recognizing the original intentions of the framers, as enshrined in the Constitution? If so, the Constitution can tell us *what* to think. Or is it to be understood as "relativists" (broadly, liberal Democrats) see it, as a set of documents themselves the result of circumstance, which we must interpret in the light of our own knowledge and circumstances? If so, the Constitution can, at best, tell us *how* to think. Here is the same fault line as that which crosses textual scholarship, between editors who strive to uncover original intention towards shaping a fixed text and editors who seek to show the multiple contingencies bearing on text as process. Obama's position is that he wants to be neither a strict constructionist nor a free relativist. Instead, he proposes the following:

The answer I settle on...requires a shift of metaphors, one that sees our democracy not as a house to be built, but as a conversation to be had. ...What the framework of our Constitution can do is organize the way by which we argue about our future. All of its elaborate machinery — its separation of powers and checks and balances and federalist principles and Bill of Rights — are designed to force us into a conversation...^[13]

This seems an excellent description of what textual scholarship does. We engage in a conversation about the text. It is not just any conversation: we recognize certain rules of fidelity to evidence, of respect for opposition views, and (especially) a sense that the exact words and the circumstances of their saying matter. This requires that we do not carelessly distort the texts under our care, or ignore what they say in favour of what we would like them to say. Being a good textual editor is not so different from being a good citizen: one ought to listen, ought to try to understand what is actually being said, then ought to try to help others understand too.

In the opening paragraphs of his *From Gutenberg to Google*, Peter Shillingsburg wonders at the endurance and beauty of Gutenberg's 42 line bible, and asks, in 500 years, would anyone stand to look at a museum display of the first electronic book and would the words "endurance" and "beauty" come to mind? I think the digital humanities, and what we can do with them, offer something far better than a single book, locked in a single library. They offer us the chance to become more skilful, better-informed readers. They offer all of us the chance to make up our own minds about utterance and text, and not just accept what anyone tells us. After all, that was always the best function of books — and with the new electronic books of the future, we can do this better than print books ever could.^[14]

Notes

- [1] The arguments for texts as social objects have been given most force in recent decades by McKenzie (e.g. [McKenzie 1986] and [McGann 1983]).
- [2] The most convenient summary of the different schools of textual scholarship is given in [Greetham 1992]. A superb dismantling of the pretensions and rhetoric of "intentionalist" and "definitive" editions is given in [Shillingsburg 1996].
- [3] The Committee on Scholarly Editions, within the Modern Language Association, may issue a seal of approval for editions which are found to meet "professional standards." It should be noted that while the first editions approved by the CSE's predecessor (the Centre for Editions of American Authors) may be described as intentionalist, the definition of "professional standards" applied by the CSE has widened considerably: thus, for example, the award of the seal to the online Blake Archive. For the CSE, and a list of editions given the seal, see http://www.mla.org/resources/documents/rep_scholarly/cse_approved_edition/cse_approved_edition_a_i (accessed 22 March 2008). For a fuller statement of the history and aims of the CSE, see http://www.iupui.edu/~peirce/writings/cse.htm (accessed 22 March 2008).
- [4] The Guardian 3 October 2006, available online at http://www.guardian.co.uk/g2/story/0,,1886387,00.html, accessed 22 March 2008.

- [5] See [Marcus 1996], which emphasizes the need for readers to return to the original printings, in order to free themselves from "centuries of editorial accretion" (p. 5) though Marcus however is aware of the costs of this approach. Similar thinking underlies many of Randall McLeod's writings, for example in [McLeod 1982, 26–55], and was given a kind of practical effect in [Warren 1989]. But even Warren admits that the editor cannot help but be present in the text, as he found himself having to order the text with the parallel texts placed first: "Thus I who wish to avoid editing as far as possible find myself, incongruously enough, placing my version before the historical documents." [Warren 1989, vii].
- [6] For example, by Matthew Kirschenbaum in a plenary session of the Society for Textual Scholarship in New York, April 2001.
- [7] Available online at http://www.canterburytalesproject.org/pubs/GPGenEdintro.html (accessed 3 May 2008).
- [8] [Shaw 2006]; [Given-Wilson et al, 2005]; [Weitenberg 2007].
- [9] Quoted by Allen Renear at http://www.stg.brown.edu/pub/local/foxinterview.htm, accessed 22 March 2008.
- [10] I have made this plea in other places. See (for example) [Robinson 2005b] (accessed 3 May 2008).
- [11] For TextGrid: http://www.textgrid.de/; for InterEdition: http://interedition.huygensinstituut.nl/ (3 May 2008).
- [12] Sperberg-McQueen's metaphor comes from [Sperberg-McQueen 1996]; for "knowledge sites" see [Shillingsburg 2006].
- [13] [Obama 2008, 92-3]. The impact of his election (in November 2008) on textual scholarship remains to be seen.
- [14] In other articles, I have treated more formally the implications of these ideas for textual scholarship. See, for example, the concept of "fluid, dynamic and collaborative editions" outlined in [Robinson 2003], and the article arising from my participation in the "Ecdotica nelle rete" symposium, 10 November 2006 (a few weeks after the Texas conference), published as [Robinson 2007, 176–191].

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