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A Braided Narrative for Digital History
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It is a rare monograph today that is not festooned with Lorenz curves and punctuated with numbers.” That is how the historian David Hackett Fischer described the current state of his discipline in 1976 (132). Substitute network diagrams for Lorenz curves and blog posts for monographs, and one would have a fair description of the current state of scholarship in digital history.

It is apparent to observers of digital history, as it was apparent when Fischer commented on the rise of social history, that digital history trades in methods more than most other forms of history. Digital historians delight in writing and reading tutorials on how to use tools and software for their research and teaching; they teach workshops on those methods and line up to attend them. Blog posts in the field more often recount the steps that the researcher took than the conclusions that he or she came to. And digital history is fortunate to have a burgeoning methodological literature for humanities computing, including *The Programming Historian*, The Historians’ Macroscope, and several books on specific programming languages.

Amidst this enthusiasm for methods in digital history, one might reasonably conclude that something has gone amiss, that methods have won out over interpretations and argumentation. Tom Scheinfeldt argued in 2012 that it is a positive change that digital historians “traffic much less in new theories than in new methods” (“Sunset for Ideology”). Still, Scheinfeldt thought that while digital history needed more “time to experiment and even . . . time to play,” sooner or later “digital humanities must make arguments” (“Where’s the Beef?”). In reaction to the gap between digital history’s promise and its payoff, Cameron Blevins has argued that when it comes to “argument-driven scholarship . . . digital history has largely overpromised and underdelivered.” He makes the point that digital historians have written extensively about their methods, but not actually employed them to make many substantive interpretations. In the face of widespread skepticism among nondigital historians that DH methods will ever pay off, Blevins and others have urged digital historians to create disciplinary-specific argumentation and interpretation. We
might add to these critiques that historians have long prized the art of storytelling and have often focused on the particulars of history, including individual lives, as a mode of communicating the complexities of the past. Yet digital history (at least computational history, rather than digital public history) has tended to pull historians toward the abstract and the generalizable at the expense of storytelling and historical particulars.

While digital historians do write about methods more than they make arguments, most historians have the opposite problem. Historians have an unhealthy tendency to hide their methods, and the discipline as a whole has no real venue to discuss methodology. They rarely write about methods, even though historians’ work is defined by the various methodologies that they practice: social history, political history, cultural history, and now digital history are different communities of practice that have come to different interpretations of the past. The problem is that historians do not write about or debate their methods with the same transparency and rigor that they do their interpretations. So-called methods classes in graduate school often conflate discussions of theories or outstanding books in the field with learning how to actually conduct research. Journal articles and books rarely discuss their methods explicitly, and there are no high-profile journals in historical methodology. The result is that digital historians have been writing about their methods when the broader discipline has not.

We have, then, a deficiency of interpretation in digital history and a deficiency in explicit methodological discussion in history generally. These commensurate absences are puzzling, since our methods produce our interpretations. We must find a way of writing digital history that puts historical interpretation and argumentation at the center, while giving due weight to explaining the methodology that led to those results. Neither digital history as currently practiced nor the methodological silence of the broader discipline is a sufficient model for digital historians’ work.

This problem is, *mutatis mutandis*, similar to the one that historians faced in the 1970s. In an essay titled “The Braided Narrative: Substance and Form in Social History,” Fischer observed that historians before the 1970s had dealt with history as a “narrative craft,” made possible because of a focus on elites (110). The new social historians, however, saw history as not “a story-telling but a problem-solving discipline” (112). The turn away from studying the kinds of socially or politically prominent figures who left behind large collections of correspondence or literary sources required using sources such as census or probate records that were tractable only to new methods expressed in “empirical findings.” Empiricism made that kind of history “increasingly a mathematical science, which speaks in symbols and numbers” (113). The parallels to digital history are clear, since digital history often deals with a greatly expanded base of primary sources, often values empirical results over theory, and (at least in computational history) depends on methods that are statistical or algorithmic.
In his essay, Fischer aimed to provide a way of reconciling social historians’ newfound empiricism with their narrative tradition. He argued for “the incorporation of statistics in a text” and opposed putting statistics in an appendix on the grounds that the “two must be combined in a single expressive act” (131–33). This way of writing Fischer termed a “braided narrative,” in which the scholar wove analysis with narrative, instead of separating the two. A section analyzing, for instance, social class would be succeeded by a section narrating the lives of actual people living within those structures. The key point was that two modalities of writing history, analysis and narrative, were to be integrated in a complex prose form suitable to the task of maintaining history as both an empirical and a storytelling discipline.

Digital historians can adapt Fischer’s braided narrative for their own purposes. Where Fischer envisioned a braided narrative of empiricism and storytelling, digital historians can braid together interpretations and discussion of methodology. Fischer’s model is a prompt for asking what way of combining narrative or argumentation and digital methods is most likely to be successful.

There is no shortage of options for how we might write. One approach is to borrow a page from the sciences or the quantitative social sciences and include a distinct methods section. This approach is often adopted in the relatively new *Journal of Cultural Analytics* (e.g., Jockers and Kirilloff). Another option, common among grant-funded projects, is to write a white paper that explains methodology. Computational projects should (and increasingly but by no means universally do) make their code and data available and reproducible in an open-source repository, such as GitHub and figshare. The blog of an individual scholar or a project blog is another way of explaining methodology. Sometimes scholars publish two distinct articles, one on interpretations and the other on methods (e.g., Cordell; Smith, Cordell, and Mullen).

Yet these options are inadequate because they all separate methods and the interpretations that result from them. Blogs are sometimes the place where scholarship actually happens, which the journal article merely sums up, but that implies a disjunction between the iterative process of blogging and the conclusions presented in the article or book. The code repository is only available to those who are sufficiently literate in the programming language used. Furthermore, the details of the code are crucial, but they can obscure the patterns of problem solving and the abstractions that the code actually implements. The white paper is peculiar to the grant process and not likely to be adopted by nongrant-funded projects. Finally, the separate methods section following the model of the sciences is a poor fit for historical research. It implies that history is a kind of empirical, hard science.

A braided narrative for digital history would instead weave together discussions of methods with the process of interpretation. A section explaining the questions that a historian is trying to ask could be followed by an explanation of how a machine-learning algorithm performs a particular transformation (cf. Schmidt). For example, a discussion of the methodology of word embedding can be followed
by the interpretations drawn from applying that technique to a corpus of literature (as in Gavin et al.). A historian, to take an example from my MA student Kim Nettles, might explain how word-embedded models place terms in a multidimensional space to preserve many kinds of relationships to other terms and then go on to explore how nineteenth-century racialized discourse plotted on to different dimensions of black versus white, insider versus outsider. The two strands of the braid here are methodology and interpretation. The key to this strategy is to find an assumption made by the method (words can be embedded in multidimensional space) that matches the historical question (racialized discourse was multidimensional).

Digital historians have a firm justification for thinking that they can find shared assumptions between historical interpretations and digital methods because algorithms only work well when they are well matched to assumptions about our data and sources (Wolpert and Macready; Robinson). This implies that any good digital historical work will have a compatibility—even a harmony—between the methods applied and the sources and conclusions. We can use this harmony as the basis for combining discussion of methods with discussion of interpretations into a counterpoint, where methodology and interpretations are not discrete but mutually constitutive.

In my own work, I have found that identifying the assumptions common to the digital methods that I employ and the historical questions that I ask is the best way to blend discussion of methods and interpretations. For example, Kellen Funk and I have been working on the Field Code, a legal code of civil procedure drafted in New York in the late 1840s and subsequently adopted with modifications by most American states. (For a summary of this project, see Funk and Mullen, “A Servile Copy” and “Spine of American Law.”) As we wrote up our research, we alternated between explaining how the minhash/locality-sensitive hashing algorithm can compare the similarities of documents (Leskovec, Rajaraman, and Ullman, Ch. 3) and interpreting the patterns of similarities among the Field Code states, between explaining how the affinity propagation algorithm clusters similar documents by finding an “exemplar” document (Frey and Dueck) and arguing about the significance of exemplar sections of the code dealing with debt collection and racialized exclusions of witnesses. While we initially contemplated a methods section modeled on a scientific paper, we found that we could braid a discussion of our interpretations with our computational historical research, because our computational work produced accurate historical interpretations when it depended most closely on what we knew from traditional methods.

Finding such congruence between methods and sources is only one strategy for crafting a braided narrative. While that specific strategy might not be applicable in every instance, the more important point is how the structure of writing can aid the task of combining methods and interpretation. Adapting a braided narrative recognizes that our most powerful technology for integrating divergent approaches remains prose. Digital history has often been willing to experiment with forms of
scholarship beyond the journal article, book, and blog post, even if this experiment-
tation has gone by the wayside in recent years. But none of these experiments has
overthrown—and they may in fact have underscored—the importance of using
prose to explain scholarship, even if that scholarship includes newer modes of work-
ing such as visualizations.

Prose remains our best method for achieving a synthesis of methods and argu-
mentation, yet digital historians need a way to structure their prose that suits their
purposes. The braided narrative proposed by our social historical forebears proves
to be a useful model for writing digital history that not only explains its methods
but also produces scholarly interpretations.

NOTES

3. For example, see Jockers and Arnold and Tilton.
4. Other scholars have also found the roots of digital history in social history or
found instructive parallels between the two movements (Hockey; Thomas).
7. Digital literary scholars have gone much further than digital historians in incor-
porating computational methods and interpretive questions (see, for example, Goldstone
and Underwood).

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