Throughout its history, the public museum has been a powerful educational institution. As one of the most prestigious of public spaces where valued material objects serve as essential forms of evidence of art, culture, history, and science, the public museum mediates the knowledge produced by its exhibitions and displays with the various attending publics, as a means to define, educate, and impress its citizens. In public history museums, various objects, images, and narratives of the past are marshaled in the name of the nation, which collectively contribute directly to the construction and presentation of a specific history. Public history museums remain one of the most popular and trustworthy places from which our youth gain an understanding of the past, and as a result, they hold much influence.

Recently, public history museums are moving beyond the traditional museum displays to entertain new ways of displaying objects and information. The advent of digital technologies (notably the world wide web) has prompted public history museums to reexamine their specific knowledge paradigms. The opportunities offered by Google, YouTube, and Flickr, for example, have transformed the collections and information about the collections into a more open flow. Visitors may now attend museums that link their collection searches to Google, placing them in a wider flow of interconnected cultural, political, economic, and technological ideas and resources. Through these public spaces, visitors are able to garner knowledge within wider cultural and social contexts.

The last several years have witnessed the emergence of an increasingly robust collection of research and scholarship on museums and digital technologies.
Several issues have emerged. The first, initially raised by Michelle Henning⁵ is whether history museums (like other disciplinary museums) are placing an increasing emphasis on their experiential and performative aspects in exhibitions, resulting in decreasing opportunities for public engagement with historical inquiry through identifying information from the objects, comparing and corroborating information, and analyzing information in order to understand issues associated with historical events. The second, as noted by Fiona Cameron, addresses the current mandates and authority of many museums, which continue to posit the bricks-and-mortar museum as a privileged symbol of the past, of culture, and of national identity, and simplify the information each object provides the public, when various available technologies could contextualize that information and support knowledge creation.⁶

Museums are presently deciding whether, and to what extent, to adopt web 2.0 platforms and practices. Adoption of these technologies could promote the public’s engagement with museum collections, and support feedback and relationships with those who have attended museums and those who share a common interest. At the same time, adoption of these technologies may mean that the museum no longer controls what knowledge is created, and is instead contributing to a more collaborative production and sharing of knowledge.⁷

There is a moment when visiting history museums when the full measure of the intersection between the past and the present reveals itself. This relation occurs through displayed objects entwined with narratives that inform the visitor of what has passed. Images, objects, and narratives are selected to authenticate history and to represent interconnected and divergent past events. While this complexity comes across in a simplified and objective manner through which knowledge is to be gained directly from the object, history is considered something “taken in and taken home.”⁸ This didactic notion ignores the contemporary debates about how knowledge is interactively produced, consumed, and distributed in a museum. History museums grapple with contemporary debates about issues, including their public relevance and usefulness and knowledge production.⁹ The increased utilization of technologies raises questions for museums about how best to use social media in pedagogically sound ways that support their mandates, personnel expertise, and public expectations.¹⁰ It is not enough for museums to focus specifically on the idea of “if we build it they will come” but instead, to consider how to meld their various mandates with the increasingly prolific technologies.

When considering the playful nature of history by way of historical inquiry, as noted in chapters 6 and 7 in this volume by Sean Gouglas and Bethany Nowviskie et al., the digital media and computer technologies that
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may support such inquiry are often mismatched. Certainly, the increasing commitment by scholars and cultural heritage institutions (including museums, archives, and libraries) to democratizing history by encouraging people to participate in preserving and presenting the past has opened up increasing access to resources. What is often missing, though, is providing opportunities for youth to work with tools in order to gain meaningfully from these resources. I am often at a loss in understanding why displays and exhibitions revert back to a didactic transmission of knowledge even when the institution itself is utilizing various technologies and the youth attending are engaged with these technologies beyond the museum. Why do museums limit the playful engagement in understanding the past when history is a dynamic and playful discipline? There are two reasons. The first is that museums attempt to advance and achieve their broad educational mission with an obvious end goal of presenting factual knowledge about the past. The second answer is related to how history is defined in history museums: the traditional presentation of history in museums relies on objects and text panels. The objects serve as evidence that a past did indeed exist, while the text panels attempt to provide the narrative context of the historical event. The history presented in a museum is often one framed as the commodity to be taken from the museum. The knowledge gained from any object is often thought to be singular and truthful instead of multiple and open to interpretation. The public history museum’s role as a communicator of messages and the public as the recipients of those messages depend on the objects as “utterances”—instances of “speech” organized into a “grammar” through practices of collection and display.11 This dependence on an object-based epistemology, where “the focus is on what knowledge is gained directly from the object itself,” ignores what information can be attained within and beyond the museum through the utilization of technologies.12 The availability of additional information that contextualizes what is placed on display can extend the knowledge drawn from the exhibition itself. It seems as though the opportunities to engage in playfulness within the museum are limited in exhibits, where the materiality within the museum carries authority as evidence and knowledge. By utilizing various technologies that provide additional text, images, maps, and the like, museums can provide students with increased sources from which to understand what is on display, what relevance it may hold to historical understanding, as well as transforming the museum from an authority to a facilitator.

I have argued elsewhere that youth have the capacity to develop a historical consciousness and to question what historical narratives are proffered in public history exhibits and for what purposes.13 I have also argued that museums need to allow for, and invite, opportunities for our youth to critique
the exhibit itself in order to advance the museum’s educational mandate. Can the knowledge gained from a history museum go beyond the didactic knowledge deemed essential? Can public history museums move away from being the sole authority of knowledge in order to advance their historical democratic sensibilities? In this chapter, I offer insight on how a group of students engaged the National Museum of American History (NMAH) in Washington, D.C., as they worked to understand the museum as an educational source. This research will serve as a call to educators to reconceptualize the museum as a pedagogical site, to invite our youth to advance their own learning about the past through the interchange between the museum and technology, and to utilize the technologies beyond the museum to return to the playfulness of learning. Here I present a brief explanation of a research project involving students developing a digital mash-up, a media project mixing various texts, graphics, audio, and video, to advance their own historical knowledge about war and its role in U.S. identity formation.

Research Context

In the fall of 2005, I began a multiyear research project that involved working with a group of grade 8 students at a charter school in Washington, D.C. The large-scale project focused on how students came to understand identity formation, how identity is defined and by whom, and how individual and collective identities are advanced through specific public institutions (including schools, museums, archives, and memorials) and particular school subjects (including history, literature, and biology). This particular study also provided an opportunity to examine how various technologies were utilized to aid classroom instruction and student learning, which served to satisfy one of the charter school’s main mandates. A second feature of this study was the weekly off-site activities, also a school mandate, which included (in this case) a regularly scheduled day-long experience in several of the museums within the Smithsonian Institute organization.

During the three months I spent in the classroom, I observed the teacher working with the students to understand the association between history and identity, and the relevance of museums in defining both personal and collective identities through history. Each day I witnessed various teacher and student activities: the teacher providing directed lectures about working with source materials, the students attempting to understand what information the selected source material provided to their overarching focus, and both the teacher and the students engaging in discussions and debates about who defines what history is, when displayed in the public realm of a
museum. As well, I observed how the students utilized various social media and web-based technologies in their own classroom learning opportunities, and how the teacher explained the ways in which technology served various pedagogical purposes.

The teacher’s own educational background as a historian and as an educator ensured that the students received instruction about history’s disciplinary elements (notably: close reading of the source, textual analysis, identifying corroborative information, and narrative structure and argument). She also provided learning activities she believed were pedagogically sound, which allowed the students to understand the art of history instead of solely learning historical fact (specifically the identification, analysis, and comparison of source materials to formulate an argument). This commitment was evident in various ways: in the classroom activities undertaken prior to the museum visits; the weekly museum visits that extended throughout the school day; and the post-visit classroom activities (which resulted in the production of a five-minute mash-up video that incorporated digital archival documents, music, altered photographs, and exhibition objects that highlighted the students’ representation of a collective U.S. identity). These mash-ups provided the students with an opportunity to present their own meta-narratives of the museum’s representation of a collective identity vis-à-vis war and military engagement. The students visited the National Museum of American History to understand its role in defining both personal and collective identities, with weekly dedicated time spent in The Price of Freedom: Americans at War exhibit.15

Prior to attending the exhibit, the students debated the relationship between history and identity and the purpose museums serve to both. Several open and frank discussions about the learning that occurred (or not) within a museum also took place prior to and throughout the unit. The teaching directed the students to examine selected objects and “read” the information easily obtained from the label, consider how this information contributed to the larger exhibition narrative, and argue its broader application to identity formation. The teacher-student interactions also focused on how the students could use various technologies (Google, YouTube, Flickr, digital collections from the Smithsonian Institute, the Library of Congress, the National Archives and Records, for example) to gain information that would inform their mash-up videos.

Students were evaluated on their understanding of history at several stages during the study, including student engagement with digital technologies (as directed by the school’s charter-mandate), informal conversations between the teacher and students about their works in progress, written justification of selected topic and suitable sources, and the final mash-up.
The students were assessed on basic historic information obtained from the exhibit, how their selected exhibition element (an object, theme, or narrative) aligned with their mash-up theme, and the support of their argument of the museum’s role in identity formation. The evaluation included classroom-based examinations and grading of the final project. While the teacher did not assume all students could engage with technologies to an equal skill and complexity level, she knew individual student abilities (and organized the student groups to ensure various abilities).

**Research Results**

The NMAH, like other museums, is a “guardian of important things,” of objects and material goods displayed in order to advance their educational purpose of providing experiences from which the attending public can learn about the past.16 The objects assume an object-based epistemology; each is readily conceptualized and offers, as Henrietta Riegel noted, “a lesson at a glance, a confirmation of actual life as documented and preserved.”17 The physical objects serve as the evidence on which history depends for verification, and their presence in the museum provides the authority for museums to tell a their selected story of a past. Andreas Huyssen, for example, argues that “one reason for the new found strength of the museum in the public sphere may have something to do with the fact that it offers the material quality of the object.”18

This point was not lost on the students. When asked about the museum’s educational role, a student named Stuart replied that this exhibit was “more than a collection of guns.” But he quickly followed up by saying that “you can learn more about guns, if you really, really want to.” He listed, and then showed, the various sites where he and his group obtained information and noted the ease of a Google search and the amount of sources from which he may draw. He acknowledged openly the necessity of objects as the basis of learning within the museum, but also noted the limited information provided by each object within the exhibit. His group used guns as a point of reference for their mash-up. He also spoke about how his group, when bringing in computers to the exhibit, would access sites to present immediate additional information, which would then have to be analyzed as to their relevance and dependability.

Stuart and his fellow group members (Lisa, Luci, and Paulo) spoke at length about the limits of the exhibit and the information gained from the objects. Lisa stated that the obvious knowledge gained from the object “depends on the label,” while Paulo noted that people bring their own
knowledge to the exhibit. The exchange among the group members moved to how they used various technologies through their assignment. They included videos they completed of the exhibit itself, photos of the material objects displayed, pictures of the text panels and tags, and clips from movies that featured guns (specifically war movies and westerns). Their mash-up, which they called *How the West Was One*, centered on the idea of guns as a metaphor for bringing together and dispersing people.

Perhaps the most cogent point in the student discussions concerned how history is presented in the NMAH through the displayed objects found within a temporal 3D space organized around a time line. The students collectively highlighted how objects considered relevant to an exhibition were arranged near key dates to illustrate the points on the time line and to fit neatly into the chronology of events. Lisa pointedly argued, following Alun Munslow’s claim, that history is “assembled as a string of selected and linked events and recounted in the shape of a narrative.” The NMAH follows Munslow’s claim that the traditional exhibition standard is to “turn the displayed objects into something else [a narrative]—that which we call history.” Lisa echoed this point when she stated how “boring” she found the display of objects. She extended this point by noting how each object forms an “incomplete sentence in a historical narrative” and served to contribute to “an otherwise really, really boring exhibit.”

This expression of boredom about the exhibit is akin to the commonly held belief that history is a subject that is uninviting and dull. When pressed further about this detail, the four students spoke openly about their own knowledge of the playfulness of history, noting specifically how history “can serve as a game where you can learn without thinking that you are learning.” Paulo further explained, when pressed, that the element of play within history is “finding knowledge you never knew, is like going through a maze. . . . You know, when you hit a wall you have to rethink everything. You bring in more information to understand and get past the block . . . and then you have to decide if the knowledge is necessary or useful.” The students collectively suggested such playfulness was absent in the exhibit, even in those sections that had a technological base (such as the expansive television monitors featuring broadcasts of the Vietnam War). It was the mash-up assignment that provided the students with the challenge of engaging in the art of history through a commonly utilized media.

While many would consider the student mash-up videos to be a playful example of how students could advance their technological skills, I argue that it allowed the students to rethink how they learn about the past. Their interaction with various technologies worked to build an expression of their knowledge about the relationship between history and identity. The
mash-up itself, while clearly an activity to engage the students, was effective because much of the content presented works through a combination of knowing something new (in the case of Stuart’s group, how the identity of American men is one of strength and hardiness) with a more interesting way of presenting the information. The mash-up presented a combination of aesthetic appreciation (including a sepia tone along with computer-created graphics of blood) and the cultural memories of the West as a nostalgic time and place. The mash-up included a sound track containing Western background music (from, no less, *The Magnificent Seven* and *How the West Was Won*), photographs of the students themselves inserted into the archival documents and exhibit, and the students’ physical presence in the museum exhibit. Accompanying the mash-up were images of guns displayed in the museum, transposed pictures of massive U.S. casualties from the Vietnam War, and a film clip of a confrontation between natives and non-natives. Will these students ever attend another museum and know that they can gain more information about what they see in front of them through the digital realm? I suspect so. And I also suspect that they have some sense that learning the past can be fun, and that museums do have a particular purpose. As one of them stated: “I know they [the museum] has all of these objects. I just don’t know what they want us to learn about the objects.”

**Discussion**

Commentators have lately expressed concern about the apparent lack of historical knowledge held by our youth. In their arguments about the shortcomings of public education in the United States, education policy makers frequently use standardized test results (specifically the National Assessment of Educational Progress results) to show the limited knowledge students possess. The response to this lack of knowledge was a movement toward widespread utilization of primary source materials and the dependence on document-based questioning as the basis for history education. By using primary and secondary sources, it continues to be argued, students can develop historical knowledge by engaging in the act of history. The focus on the development of content knowledge (the “what” of history) and procedural skills (the “how” of history) can be included in the larger issues of asking why particular representations are presented within the museum. These students came to understand how knowledge is constructed in the museum, as well as how knowledge can be reconstructed using digital technologies. Their goal was to create a mash-up that included a narrative about history and national identity. They learned many new technological skills. They not
only gained a rudimentary skill set related to the use of iMovie, but they also acquired and presented a mature understanding of where other information may be found. To formulate their arguments about history and museums, they identified and located additional information necessary for their argument. Although some students in this study saw the formation of identity through history in fairly narrow terms—that history itself was a static element without opportunity to change—most were engaged in a more critical process consistent with the concept of historical consciousness, that is, the ability to understand through critique how a particular historical representation serves specific purposes.

The use of technology within the public history museum appears to aid museums in achieving their educational mandates. Researchers within the museum studies discipline over the last five to six years have investigated how museums are utilizing web 2.0 technologies, including social media such as Twitter and Flickr.22 From the development of digital collections, to accessing information through museum dashboards, through specifically developed smartphone apps (to name only a few), museum personnel are identifying technology that may serve a useful purpose for the museum. But the students whom I studied expressed a critique of the technology used within the exhibit, which we should take as a warning about the educational potential of technology. The students gathered information additional to that presented by the exhibition labels and text panels by producing digital media files creating their own narratives about the exhibit. The additional information gathered allowed for a more open and flexible collection of knowledge specific to the interests of the students. When questioned by the museum personnel about their lack of engagement with the various technologies incorporated into the exhibit itself, the students cogently argued that the digital media within the exhibit reflected the museum’s current technological focus (which assumed such technologies would be a draw for youth to learning from the exhibit). Yet, the students also thought that the technology within the exhibits (limited to looped films and still photographs displayed on walls) did not specifically contribute to furthering their knowledge. The students realized that the History Channel and a local independent media company produced many of the media elements within the museum (individuals within the videos were actors and not “real” Medal of Honor recipients), and they spoke critically about the use of a perceived authentic award to gain an emotional tie to the exhibits’ larger message (of connecting the necessity of conflict to that of freedom). Although the museum did claim to engage with technology primarily in the form of media, such technologies were as didactic and directed as any of the objects, text panels, and labels. The students used other sources available online and drawn from other sites
beyond the museum while wondering about the museum’s parallel online exhibit. The students considered the online exhibit a missed opportunity in accessing additional information about the exhibit, the wars included in the exhibit, and the objects constituting each display. Instead, the students’ awareness of the site was apparent during the research when they discovered it through an online search.

Conclusions

The public history museum continues to grapple with ensuring that its educational relevance continues as it addresses the challenges of incorporating various technologies into its public mandates. Not only are museums dealing with making information about their objects and exhibits open and accessible, they are also dealing with a public who comes to expect opportunity to find such technologies available within exhibits. This change challenges educators and museums to rethink how historical inquiry in public history museums can be supported through the use of technology. How can museums provide opportunities within their exhibition spaces (and on dedicated websites) to engage in historical inquiry that moves beyond text labels and objects? How can museums come to support exhibits that actively engage students to critique what is presented and develop an understanding about the importance of such a presentation? The challenge facing public history museums is working toward changing their own (and the public’s) conception of the museum as a knowledge authority. Instead, I suggest, there is a need for museums to consider themselves as brokers of knowledge and that such knowledge can come through engagement with technology within and beyond the museum.

Although previous research has demonstrated that our youth may be actively involved in appropriating or resisting particular historical narratives, many of those involved in this study were engaged in a more complex process. The four students I interviewed and observed clearly pointed out the limitations within the museum that inhibited their understanding about the past. The knowledge they developed in the classroom led them to seek additional information when in the museum, and they struggled to integrate new ideas they encountered in each. Although some of the students simply accepted the history narrative displayed in the museum, most were aware that the objects and the narratives were used for advancing a particular collective identity. By being aware that by utilizing various technologies, they came to appreciate the fact that their own education exposed them to the playfulness technology offered and appreciated the fact that technology could encourage
a more critical historical perspective, particularly by exposing them to source materials beyond the museum. Even as they sought to expand their own historical viewpoints, however, they were willing to acknowledge the limited information presented by the museum. Both the highly contentious nature of historical representations in the United States and the factual emphasis of the school curriculum may contribute to students simply accepting or rejecting historical narratives based on personal experience, preferences, or prior knowledge. This points, then, to the value of historical study that focuses on students’ utilization of technology to gain experience working with tools (which may well be computer based) in order to enrich their own historical understanding through digital media. I am not suggesting that every student attending a public museum ought to be engaged in a mash-up experience. What I am suggesting is that we need to harness the interest students do hold in history to activities that will fashion a set of skills and knowledge. By asking our youth to be critical of the history presented in public museums is not to ignore the importance each institution holds in providing such information. Can our youth problem solve, communicate, or be creative and innovative by attending a history museum? I cannot say for certain. But I can suggest the need for public history museums to provide opportunities for those youth who are interested in knowing and learning more about the past, something that can easily be done within museums with the open web access many provide their public. Those opportunities can be vehicles for bringing these youth into rich conversations about our past, about museums and education, and about how their skills and knowledge are developed outside of the traditional classroom.

NOTES


15. The exhibit sought to provide a “comprehensive and memorable overview of America’s military experience and the central role it has played in our national life” (Smithsonian Institute, 2005). Although the exhibit closed on September 5, 2006, the online component remains a popular educational resource.


20. Munslow, 22.