

## CONFERENCE PAPER

# The Archaeology of Digital Abandonment: Online Sustainability and Archaeological Sites

Matt Law\* and Colleen Morgan†

After 15 years of hosting millions of user-built webpages, in April 2009 Yahoo! announced that they would be shutting down their United States Geocities webpages. Geocities was once the most common hosting service for low-cost personal webpages, including hundreds of public outreach sites about archaeology. Were the webpages moved to another hosting site, archived, or just abandoned? We tracked and recorded the fate of 88 of these webpages, eventually sending a survey to the webmasters asking them a range of questions. While we received relatively few responses, the answers to the questions were illuminating. Much of the current digital outreach performed all over the world relies on 'free' services such as Twitter, Flickr, Wordpress, Google Pages, or Facebook to host their content. What can the fate of archaeological content on Geocities pages tell us about the benefits and risks of using commercial infrastructure for archaeological outreach? We propose that sorting through the digital wreckage of past outreach efforts helps us to evaluate the eventual fate of the archaeological presence online.

## Introduction

The internet is quickly becoming a taken-for-granted medium for archaeologists to communicate with their many stakeholders and constituencies. A vast array of archaeological information is available online, including access to primary excavation data, academic articles, personal blogs, news from around the world, virtual reconstructions, photographs, and movies, and it increases in number and variety every day. Since Carol McDavid's (1999; 2004) seminal research regarding the Levi Jordan Plantation website, in which she quotes there being between '1,060,001 and 1,870,000 Internet web sites that either deal with or are about archaeology' (a number that she produced by running an online search) there are now over 300,000,000 hits on Google for a simple search for 'archaeology'.

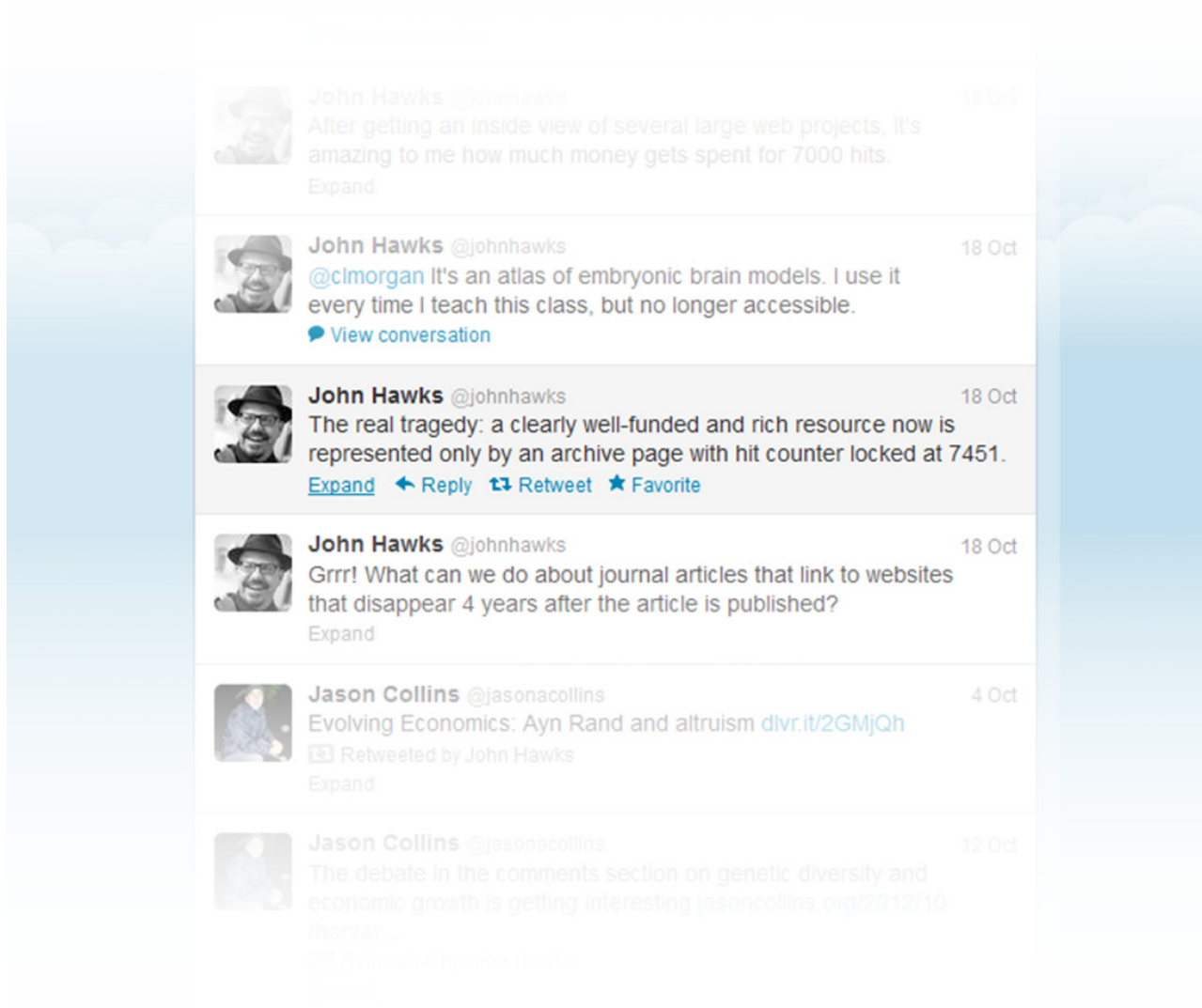
While McDavid also questioned the utility of a website for public outreach in archaeology, many have embraced an online presence as a major component of their archaeological outreach. Julie Schablitsky maintains that, for archaeological projects, the 'establishment of a Web site where the public can learn more about the site is a prerequisite before agreeing to share research data with the media' (Schablitsky and Hetherington 2012: 151). With the increased attention toward Web 2.0 and attendant social media, barriers to participation on the internet have

been greatly decreased; whereas early participants on the Internet had to know HTML and other programming languages to make a webpage it is now relatively easy to set up a dedicated blog, image archive, and Facebook page for archaeological projects with a minimum of technological savvy. We are increasingly being inundated with requests to 'like' projects on Facebook, follow archaeological conference Twitter feeds, and fund new projects on Kickstarter. At this volume of noise it seems impossible to imagine how ephemeral the archaeological presence is on the internet.

It is a rude surprise when it happens; John Hawks (2012) tweeted, 'The real tragedy: a clearly well-funded and rich (online) resource now is represented only by an archive page with hit counter locked at 7451' after finding out about the closure of an online atlas of embryonic brain models (**Figure 1**). Even 'well-funded' websites fall prey to budget shortfalls, changes in technology, and changing priorities within archaeological projects. A return to Carol McDavid's Levi Jordan Plantation website reveals that it has not fared well in the years since it has been built. While the content is still all in place, the website is not being updated and some of the biographical information is consequently incorrect. Julian Richards (2002) found a similar case with archived digital data, that 3D models, databases, and CAD files created by digital archaeological practice must be actively maintained to avoid obsolescence. Cornelius Holtorf's ground-breaking thesis written in HTML (2000–2008) contained a number of hyperlinks that have maintained their internal integrity as they are entirely self-referential, yet the subsequent Internet Archaeology (1999) article links to outside references that have long since disappeared.

\* School of Society, Enterprise and Environment, Bath Spa University, U.K, School of History, Archaeology and Religion, Cardiff University, U.K.  
LawMJ@cardiff.ac.uk

† Department of Archaeology, University of York, U.K.  
colleen.morgan@york.ac.uk



**Figure 1:** Tweet by John Hawks.

The most illustrative case of the fragility of online archaeology came in April 2009, when the company Yahoo! announced they would be shutting down their United States-based Geocities webpages. Geocities was once the most common hosting service for low-cost personal webpages, including hundreds of public outreach sites about archaeology. In this paper we consider the fate of these archaeology-based Geocities websites to illuminate the benefits and risks of using commercial infrastructure for online archaeological outreach. In doing so we first provide the background of Geocities and what led to its demise, then we discuss our research methodology, consider the results of our research, then finally assess the current state of archaeology on the internet.

### Archaeology and Geocities

The context surrounding the wide adoption of Geocities for archaeology public outreach sites merits investigation. Geocities was first launched by David Behnett and John Rezner as BHI (Beverly Hills Internet) in 1994, changing its name shortly afterwards in late 1995. It allowed the creation of a free personal online homepage with-

out the need for knowledge of a programming language such as HTML (Gill 2004). The service was enthusiastically embraced by novice web authors, although, as Gill notes, the websites Geocities hosted were often abandoned when the novelty faded. Although the contrast has been drawn between the static websites of the 1990s and the community-building internet of the Web 2.0 era (e.g. Richardson 2013: 4), this is an over-simplification, as through message boards, guestbooks and webrings, many of these websites presented an attempt at fostering an online community. Indeed Papacharissi (2002, 644) recognised homepages as setting up 'a virtual meeting point... [they] also provide a virtual home base for online communities and help connect their members'.

Geocities was a 'mega-community' (Dahlberg 2001: 617), with sites (called 'homesteads') arranged into clusters modelled on city streets, with broad thematic similarities (sites about entertainment, sites about technology, etc.) grouped together in 'neighbourhoods'. Upon reaching a neighbourhood, visitors would be faced with a page containing icons of numbered blocks containing small images of houses. Clicking on a block would reveal

TechWire just got more reporters...more news, and of course, it just got a whole lot better. You should come see what all the talk is about. <http://www.techweb.com> (or just click here).

**TechWire**

**GEOCITIES** YOUR HOME ON THE WEB

• **ENTER HERE**

• **INFORMATION**

• **NEIGHBORHOODS**

• **WHAT'S NEW**

• **WHAT'S COOL**

• **WHAT IS GEOCITIES?**

\* [Free Home Pages & Free Member Email](#) [Advertiser Information](#)

Next Stop PLANET DIRECT

LU@S

FREELOADER 2.0

**NEW!**

Today's Cool Homestead [GeoCities Daily Audio Update](#)

[HotSprings 1837](#)

So you hit the snooze bar ten times every morning. You might be lazy. But then again, you might have a sleep disorder. Find out here.

**GeoCities News of the Day - 10/22/96**

Figure 2: Geocities in 1996.

a page with actual addresses and icons separated into two columns by a winding road (Papacharissi 2002: 648). **Figure 2** shows the Geocities front page in 1996, highlighting a 'featured homestead'. In practice, however, the hosted sites were often self-contained, or part of 'webring' extending outside of the Geocities domain, rather than being oriented towards an intra-Geocities community. In a primer to the concept of 'Web 2.0', posted in 2006, Madden and Fox (2006: 6) contrast the metaphor of a place used by (then waning in popularity) Geocities, with the metaphor of a person deployed by the then-ascendant MySpace. Geocities was, however, already shedding the geographical metaphors: soon after Yahoo! took control of the site in 1999, users were offered personal vanity URLs in addition to their 'street' addresses. Yet the metaphor of place and 'community' may have influenced subsequent interaction and self-presentation on Geocities. Papacharissi (2002: 655) found that Geocities members tended to display much more of a sense of community than those whose sites were hosted with Earthlink (an internet service provider that makes free web space available to members).

Although it remained popular, Geocities had reported losses since the Yahoo! takeover, and in April 2009, Yahoo! announced that it was closing the service. With the exclusion of Japan, (the Japanese-language geocities.jp still offers free homepages) all other webpages hosted by Geocities went offline on 27 October, 2009. At the time of the initial announcement regarding the closure, a Google search for 'archaeology' within the

domain geocities.com yielded more than 10,000 results. As with the numbers cited in our introduction, in practice these numbers were inflated; many of the hits for archaeology were different pages within a significantly lower number of cohesive sites about archaeology. The first 88 individual sites encountered within the search results were catalogued as part of this survey, with brief notes made on whether or not the site was judged to be 'active' (updated since 1 January, 2008); whether it was a personal or corporate homepage; the kind of content it contained, for example whether it was a thematic compendium of links to other sites, or a collection of essays or photographs, and whether it had a region or period-specific focus; as well as the country in which the site was created. Of these 88 websites, 14 were still active, and two redirected to other websites. The content of the 88 sites visited ranged from personal homepages of academic researchers, to local and student archaeological societies; an apparently long-defunct British campaign group ('Archaeologists and Development', see **Figure 3**), to personal collections of essays on more esoteric and contentious topics like King Arthur, aligned sites in Glasgow, and Black Athena. Brief notes about the 88 websites are presented as Appendix 1.

One of the sites related to a specific event, the 7<sup>th</sup> Gender and Archaeology Conference held at Sonoma State University in October 2002, and may never have been intended to form a lasting archive. Two others were the websites of student archaeological societies that may only have been planned to last for a single iteration

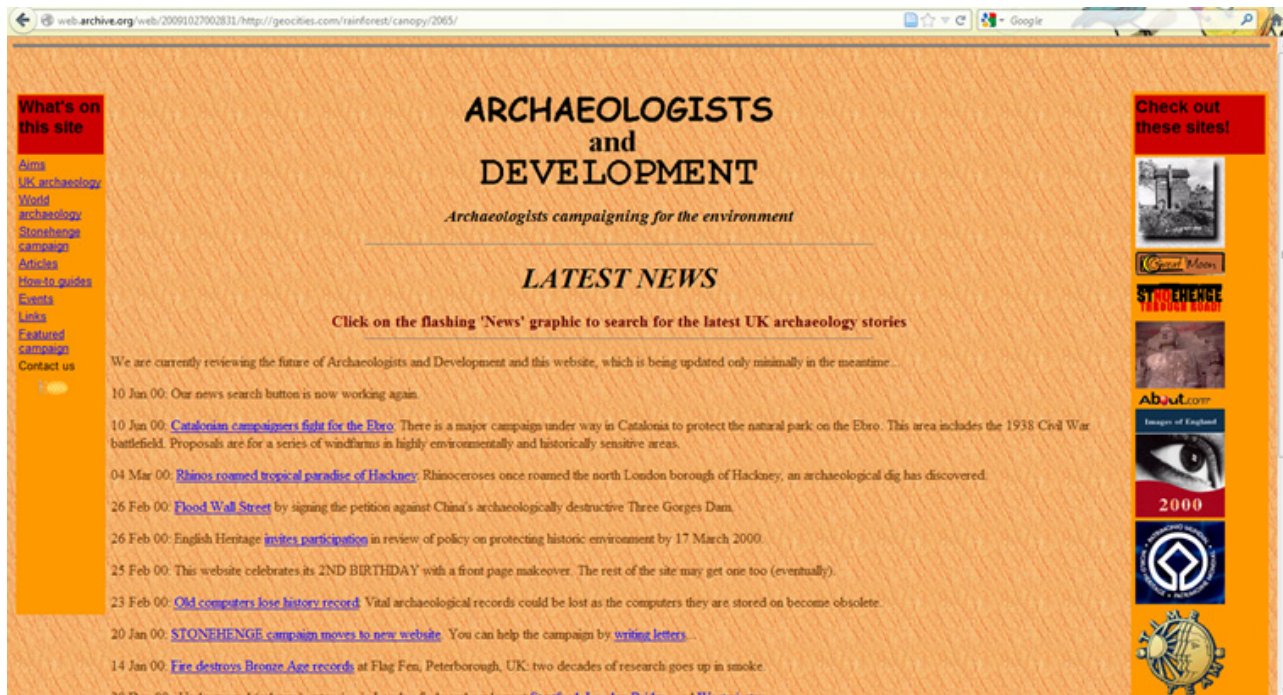


Figure 3: Archaeologists and Development, front page.

of the committee (although that of Oxford University Archaeological Society was still active at the time of the survey- it had only been established in 2008). The majority, however, contained essays, photographs and other interpretative or reference materials. It is possible that no thought was ever given to the longevity of the websites by their creators.

### The Survey

After consideration of these websites, a short survey was devised for further information about the websites. In April 2009, a link to this survey was sent to the webmasters of the 58 sites for which contact details could be found. Of these 58 emails to webmasters, 18 of the e-mails were returned undelivered, nine of the site owners completed the survey, and one further webmaster sent a personal response politely declining to answer the questions. The questions are reproduced in Appendix 2.

While just 10 per cent of the webmasters queried responded to the survey, their answers were still informative regarding what the closure of Geocities meant to their websites. All of the respondents identified themselves as sole authors of their sites, although one did say he was 'sole maintainer on behalf of a group', and another the sole caretaker of a site whose author had passed away. Six of the sites were described as providing information and sharing knowledge, two provided contact details and membership communications for archaeological societies, and one was a directory of web links. Four of the sites were based in the USA (34 of the 88 sites visited were American), two in the UK, one in Germany, and one in Georgia. Three of the webmasters described their sites as no longer updated. Two described their content as primary data that was not available elsewhere, and two replied that their sites contained interpretations not available elsewhere. After the

closure of Geocities, six of the respondents said that they would be moving their sites elsewhere, the remaining three were unsure. Seven respondents said that they were aware of published references to their Geocities site, and six said that they were aware of incoming links to their sites online.

There was also a free text portion of the survey wherein webmasters could 'make comments about the closure of Geocities, your experience of running an archaeology-related site on Geocities, or your thoughts about archaeology's place on the internet in general.' The testimonials that the website owners left told the histories of many of these websites, and related the marginal space that they suddenly found themselves occupying. For example, one of the archaeology societies were hosting a website on Geocities as their local authority stopped hosting the page on the governmental website, and after changing all of the links in other websites and publications from the former URL, would have to change them once again on finding another host. The website owners expressed sadness and frustration and lamented the time it would take to build the websites elsewhere. Interestingly, while there is this aforementioned loss of information and wasted time and effort after using Geocities, several of the respondents commented on the utility of the internet in general to disseminate research results to the public and to the academic community. Further, 'it is a good way to enhance communication between scholars in archaeology and cognate disciplines as well as between archaeologists and the general public.' Two respondents specifically wished for permanent repositories for archaeological information and for personal webpages for archaeologists.

Three years after the initial closure and survey data were collected, we are happy to report that many of these

websites have been rebuilt elsewhere on the internet. One of the responding sites still exists at the same URL, albeit hosted elsewhere. Another has been transferred to Google Pages, another free hosting service. The author of another site still maintains an active online presence, embracing Twitter and using Academia.edu to self-archive his work. Of the sites that did not respond to the survey, 14 have moved to new hosts (in fact, eight had already moved at the time of the survey), while a further six of the authors still maintain an online presence.

There have been several initiatives to preserve these webpages by mirroring the Geocities content. These include geocities.ws, oocities, geociti.es, and a few others. The Internet Archive, established in 1996, is a non-profit digital library that offers permanent storage and free public access to its archives; it has a service called the 'Wayback Machine' that provides snapshots of internet content sorted by year. The webpages that were not rebuilt can be accessed (albeit often without the original media or links). Incidentally, at the time of this initial review, the Internet Archive was not available online (25 October, 2012).

### Online Sustainability and Digital Archaeology

Sorting through the wreckage of the closure of Geocities is reminiscent of the current mode of curation of old computers, data formats, and software, confusingly also called 'digital archaeology'. We encourage this confusion; a contemporary archaeology of the recent digital past is welcome, especially as curated data formats can help us retrieve information that would be otherwise out-dated and locked away. In an ideal world, this other 'digital archaeology' would be informed by archaeology's engagement with materiality and our profession's attention to standardized recording. This survey of Geocities archaeology websites is an illustration of the affordances of digital media as outlined in Manovich's principles of New Media (2001). The websites are *represented numerically*, composed of digital code and are subject to algorithmic manipulation, thus allowing automated archival and redisplay on other hosts. These websites have thus been reproduced and exist as several different versions, showing their lack of fixity. That the websites have not entirely disappeared can be considered a result of strong conservation strategies that rely on the affordances of digital media. Developing a stronger sense of the context and 'depositional processes' that digital media are subject to would be a productive venue for further interdisciplinary research. Beyond this potential collaboration with archivists and new media theorists, there is also an opportunity to engage with a larger audience; as the museum exhibits dedicated to older computers have shown, people are open to the idea of a 'digital archaeology' that reminds them of the computers of their younger years.

Our examination of the fate of archaeological websites on Geocities has been instructive regarding the risks of hosting crucial archaeological data online. In the words of one of the reviewers of this article, it is akin to building critical infrastructure on a fault line; there should be some degree of earthquake preparedness for a lasting

digital presence. Investing a large amount of time and money in interpretive projects online may not ultimately be the best investment in outreach time and money. Websites that are dedicated to one topic or one excavation are reduced to isolated nodes; as shown by the subsequent profusion of Geocities sites to other hosts, to preserve archaeological information it is imperative to distribute data as widely as possible. Using the previously mentioned affordances of digital media including modularity, variability, and the ability for algorithmic manipulation (Manovich 2001) enable a better approach: an archaeological website used as an organizing structure to gather information coming from other feeds, to capture tweets, images, and blog posts in a single place, rather than attempt to host all such content at a single point of potential failure. If the website must host all content in a single place, then creating a PDF from a series of screenshots of your website might be one of the single best ways to insure the longevity of your web presence; while this circumvents the utility of hyperlinked content, the website structure and cohesiveness will be apparent, even after another Firefox, Google Chrome, Internet Explorer or Safari upgrade breaks your entire website for a large percentage of the population. Abundant advice now exists for digital preservation [see for example the *Preservation Handbook* (Digital Preservation Commission 2002–2009)]. Further, entrusting private companies to host vital information is risky; many archaeological sites now have a presence on Facebook and Twitter. While the demise of these particular social media sites may not be imminent, access to the account associated with the archaeological presence is not perpetually ensured. The closure of Geocities in 2009 was followed in 2010 by the decision of Ning, another site with a burgeoning archaeological presence, to discontinue free hosting, and the ensuing closure of a modest number of archaeology-related social networks (Law 2011: 13).

Yet all is not dark, as Julian Richards has noted, the digital age 'provides archaeology with both a crisis and an opportunity' (2002: 33). Many of the sites that were formerly hosted on Geocities were preserved through one of the various previously mentioned schemes. The webmasters who were losing their sites still remained positive about the potential for online outreach. While we certainly should not rely on the archivist vagaries of internet citizens to protect our data, we should encourage the idea that archaeology is important and accessible by continuing to engage with the online audience.

### Conclusions

This article provides a case study to better understand the long-term presence of archaeological research online and the benefits and risks associated with using 'free' services hosted by corporations. As websites such as McDavid's near the end of their second decade online, we can begin to take a longer view of the survivability of the archaeological web presence. Drawing from this study of Geocities sites we can come to a few conclusions and recommendations for future directions. The lessons learned for

archaeologists interested in online public outreach from the demise of Geocities are: diversify your content by hosting in more than one place, do not rely on public or private companies for hosting in perpetuity, and most importantly, to think of alternative, creative places to perform outreach online.

This last point, to think of alternative places to perform outreach online, deserves elaboration. Contributing to the ongoing effort put into Wikipedia by updating, editing, or adding information about your site, region, time period, or artefacts can ultimately be a greater contribution to knowledge about the past than a stand-alone website. Being available to large online communities such as Reddit, where experts answer questions that people have about history and archaeology by hosting an 'Ask me Anything' session allows a direct connection to an interested online public. During the Morning Star excavation in 2013, John Hawkes related updates through images and video shared on Twitter, and would answer questions about the process, providing unprecedented access to a paleoanthropological excavation. This kind of archaeological outreach provides an excellent supplement to more traditional websites that are often built and then abandoned. Creatively diversifying online public outreach by distributing quality archaeological content does not necessarily ensure the longevity of online content, but can address a larger audience without the intensive investment in a large, elaborate, purpose-built website.

#### Appendix 1: Brief notes about the archaeological sites found on GeoCities

1. MEDITERRANEAN ARCHAEOLOGY RESOURCES [http://www.geocities.com/i\\_georganas/main.html](http://www.geocities.com/i_georganas/main.html) Personal, links/ portal, essays, formal, regional **active** Greece
2. Grinco's Archaeology <http://www.geocities.com/Athens/6398/?200917> Personal, miscellany, links/ portal, photography, essays, regional, formal, **inactive** South Africa
3. Robert J Varman PhD <http://www.geocities.com/docroberre/> Personal, miscellany, photographs, essays, regional, formal, **active**, Australia
4. Welcome to Albania <http://www.geocities.com/alband/?corporate> tourism formal regional **inactive** Albania
5. The Archaeology of North America <http://www.geocities.com/athens/oracle/2596/> Personal/corporate, academic, teaching resources, links, regional **inactive** United States
6. Kevin L. Callahan Homepage <http://www.geocities.com/athens/acropolis/5579/> personal, essays, links, miscellany, formal with some informal (family photo album) **inactive** United States
7. Zooarchaeology and Taphonomy <http://www.geocities.com/abeisaw/> Personal (corporate), formal, links, essays, resources, advertising, technical, **inactive**, United States
8. Rupestre, net <http://www.geocities.com/Tokyo/2384/> Corporate, formal, resources, photos, technical, database, messageboard MOVED TO NEW SITE, **inactive**, Italy
9. Michael's Home Page, <http://www.geocities.com/Yosemite/Trails/5685/> Personal, miscellany, informal, links/portal **inactive** United States
10. Archaeological Museum, Kibbutz Ein Dor, <http://www.geocities.com/Athens/3603/> corporate, corporate information, collection details, formal, regional **inactive**, Israel
11. Archaeologists and Development, <http://www.geocities.com/rainforest/canopy/2065/> corporate, political, formal, links, database, regional, **inactive**, United Kingdom
12. Ancient World Languages, <http://www.geocities.com/mayanglyphs/> corporate, sales, formal, **inactive**, United States
13. Underwater Archaeology Jobs <http://www.geocities.com/underwaterarchaeologyjobs/> corporate, formal, job listings, MOVED TO NEW SITE, **inactive**, United States
14. Ancient and Biblical lands: Turkey <http://www.geocities.com/resats/> personal (corporate) photos, links, educational resources, tourist resources, regional, formal, MOVED TO NEW SITE, **inactive**, Turkey
15. Patrick Conway's Web Pages: <http://www.geocities.com/ammianus.geo/> Personal, miscellany, links, regional, **active**, Canada
16. Concho Valley Archaeological Society. <http://www.geocities.com/cvas.geo/> Corporate, society information, regional, formal, MOVED TO NEW SITE, **inactive**, United States
17. Archeologie Aeriene: <http://www.geocities.com/archaero/> personal, formal, educational resources, technical, inactive, France
18. Minnesota Archaeological Society <http://www.geocities.com/mnarchaeologicalsociety/> redirects
19. Immaterial Labour <http://www.geocities.com/immateriallabour/> corporate, conference announcement, abstracts, essays, formal, **inactive**, United Kingdom
20. Mythical Ireland [http://www.geocities.com/mythical\\_ireland/](http://www.geocities.com/mythical_ireland/) redirect only
21. Sino-American Field School <http://www.geocities.com/fmfsafsa/> Corporate, photos, contact details, **inactive**, United States
22. Science Resources on the Net <http://www.geocities.com/peterroberts.geo/> Personal, links/portal, **active**, United States
23. Alamo Archaeology [http://us.geocities.com/the\\_tarins@sbcglobal.net/adp/](http://us.geocities.com/the_tarins@sbcglobal.net/adp/) Corporate, regional, essays, photos, MOVED TO NEW SITE, **inactive**, United States
24. Archaeology Online <http://www.geocities.com/archaeology323/MainPage.htm> Corporate (personal?), reference, directory, essays, links, formal, **inactive**, United States
25. Tracing Human Meanderings <http://www.geocities.com/acgyles/> Personal, essays, formal, **inactive**, Unknown
26. Eclectic Arcana. <http://www.geocities.com/arunsinha2000/> Personal, essays, links, regional, **active**, India

27. Shalom <http://www.geocities.com/athens/olympus/5993/> Personal, links/portal, photos, regional, formal, **inactive**, United States
28. Classical Backpacking in Greece <http://www.geocities.com/classicalbackpacking/> Personal, tourist resources, essays, links/portal, formal, regional, **inactive**, United States
29. Marc Andrew Beherec <http://www.geocities.com/Athens/Olympus/9587/> Personal, essays, CV, formal, **inactive**, United States
30. Gender and Archaeology Conference [http://www.geocities.com/gender\\_conference/home.html](http://www.geocities.com/gender_conference/home.html) Corporate, conference details, formal, **inactive**, United States
31. Archaeology Online Resources, <http://www.geocities.com/trekerq/Opening.html> Corporate (personal?) links/portal, formal, **inactive**, United States?
32. Ancient Archaeology <http://www.geocities.com/Athens/3857/> Corporate (personal?) links/portal, formal **inactive**, unknown
33. Muazzez Ilmiya Cig Sumerologist <http://www.geocities.com/muazzezcg/> Personal, link/portal, bibliography, biography, formal, **inactive**, Turkey
34. Archaeology Newsletters [http://www.geocities.com/thai\\_archaeology/](http://www.geocities.com/thai_archaeology/) Corporate, announcements, formal, **inactive**, Thailand
35. Archaeological Ceramic Building Materials Group <http://www.geocities.com/acbmg1/> Corporate, society information, events reference materials, links, directory, formal, **inactive**, United Kingdom
36. Alice's Page of Chickens, aDNA, and Oceanic Archaeology <http://www.geocities.com/afijistorey/> Personal, bibliography, CV, formal/informal **active**, Canada/New Zealand
37. Birkbeck College Archaeology Society <http://www.geocities.com/athens/delphi/3909/> Corporate, society information, events, directory, formal, **inactive**, United Kingdom
38. The Georgia Archaeology Website. <http://www.geocities.com/wfstanyard/> Personal (impersonal), public resources, directory, formal, **inactive**, United States
39. Museum of Regional and Mediterranean Archaeology [http://www.geocities.com/dror\\_s\\_1999/index.html](http://www.geocities.com/dror_s_1999/index.html) Corporate, museum information, formal, **inactive**, Israel
40. Gender and the Palaeolithic by Leisa Clark <http://www.geocities.com/barddiva/GenderAnthro.html> Personal, assignment, essays, formal, **inactive**, United States
41. Giorgi Leon Kavtaradze <http://www.geocities.com/komblege/> Personal, CV, bibliography, essays, regional, formal, **active**, Georgia
42. Website on Human Past. <http://www.geocities.com/in2ourpast/> Personal (impersonal) essays, resources, links, formal, **inactive**, India
43. Merymut, <http://www.geocities.com/Athens/Styx/3776/> Personal (impersonal), excavation narrative, bibliography, resources, links, regional, formal, **inactive**, United States
44. Dan Weiskotten <http://www.geocities.com/wskttn/> Personal, essays, biography, links, formal/informal, **inactive**, United States
45. Asellina's Caupona <http://www.geocities.com/richsc53/> Personal, reconstruction, promotional, **inactive**, United States
46. The Kensington Rune Stone [http://www.geocities.com/m\\_zalar/](http://www.geocities.com/m_zalar/) Personal, essays, links, photos, bibliography. Formal, **inactive**, United States
47. The Magpie's Nest <http://www.geocities.com/shadow-cat.geo/> Personal, miscellany, informal, **inactive**, United Kingdom
48. Greg Fewer. [http://www.geocities.com/gregory\\_fewer/](http://www.geocities.com/gregory_fewer/) Personal, essays, CV, autobiography, links, formal/informal **active**, Ireland
49. An Archaeologist's Diary [http://www.geocities.com/amuns\\_temple/](http://www.geocities.com/amuns_temple/) Personal, redirect, **inactive**, unknown
50. Finding Odd Articles on Astronomy, Archaeology and Earth Science, <http://www.geocities.com/antalsalmons@btinternet.com/> Personal, links, **active**, United Kingdom
51. The Pakbeh Regional Economy Project <http://www.geocities.com/chunchucmil/> Corporate, project information, regional, formal, **inactive**, United States
52. Qadash Kinahnu. <http://www.geocities.com/SoHo/Lofts/2938/> Personal – alternative identity. Online reconstruction. Essays. **Inactive** Unknown
53. Archaeology of the World War II [http://www.geocities.com/arch\\_2nd\\_war/](http://www.geocities.com/arch_2nd_war/) Personal, commercial, sales, formal, **inactive** Unknown
54. Regional Scale Archaeology <http://www.geocities.com/amickels/> Personal, bibliography, links, abstracts, downloads, formal, **inactive**, United States
55. Homepage of Michael Busch and Stoahist Theory <http://www.geocities.com/stoahist/> Personal, alternative histories, theoretical, **inactive**, United States
56. A. Levent Atici [http://www.geocities.com/levent\\_atici/](http://www.geocities.com/levent_atici/) Personal, bibliography, CV, site information, regional, formal, **inactive**, Turkey
57. Military Archaeology. [http://www.geocities.com/military\\_archeology/](http://www.geocities.com/military_archeology/) Corporate, project information, regional, formal, **inactive**, Latvia
58. Oxford University Archaeological Society <http://www.geocities.com/oxfordarchsoc/> Corporate, society information, formal, **active**. United Kingdom
59. Archaeology for All <http://www.geocities.com/khizarhayats/> Corporate, information, essays, regional, formal **inactive**, Pakistan
60. Sources for the Existence of King Arthur. [http://www.geocities.com/king\\_artuk/](http://www.geocities.com/king_artuk/) Personal, essays, links, formal, **inactive**, United Kingdom
61. Andean and Tiwanaku Archaeology <http://www.geocities.com/Athens/Aegean/4650> Redirect only
62. Afrocentricity and the Black Athena Debate. <http://www.geocities.com/warriorvase/> Personal, essays, links, **inactive**, Netherlands
63. Jorge Sanchez Montelongo [http://www.geocities.com/jorge\\_sanchez\\_montelongo/](http://www.geocities.com/jorge_sanchez_montelongo/) Personal, autobiography, CV, links, formal, **inactive**, United States

64. Solarguard <http://www.geocities.com/solarguard/> Personal, essays, links, **active** Canada
65. Malta Archaeology <http://www.geocities.com/athens/agora/5685/> Personal, essays, photographs, links, regional, formal, **inactive**, Malta
66. AnteQuem Online Cultural Journal <http://www.geocities.com/antequem> Collaborative, corporate information, formal, **inactive**, Greece
67. Knappers Anonymous <http://www.geocities.com/knappersanonymous/> collaborative, instructional, formal, **inactive**, United States
68. Dr K.P. Rao <http://www.geocities.com/kpraohomepage/> Personal, CV, autobiography, formal, **inactive**, India
69. Reports of Prehistoric Research Projects <http://www.geocities.com/rprp20022000/> Corporate, essays, abstracts, formal, **inactive**, Bulgaria
70. Centro de Investigacion de Arte Rupestre del Uruguay <http://www.geocities.com/Athens/Parthenon/6994/> Corporate, information, essays, directory, **inactive**, Uruguay
71. History of the Ancients <http://www.geocities.com/athens/academy/7357/> Personal, reading lists, links/portal, formal, **inactive** United States
72. Kapi [http://www.geocities.com/kapi\\_ph/](http://www.geocities.com/kapi_ph/) Corporate, corporate information, formal, **inactive**, Philippines
73. Karla Healy <http://www.geocities.com/sk8agrrl/> Personal, essays, informal, **inactive**, United Kingdom
74. Alastair's Stone Circle Page <http://www.geocities.com/athens/parthenon/6197/> Personal, essays, resources, formal, **inactive**, United Kingdom
75. The Harappan Tradition <http://www.geocities.com/look4harappan/> Personal, essays, photographs, regional, formal **inactive**, United States
76. Kathleen Mary Kenyon <http://www.geocities.com/capecanaverl/hangar/4770/> Personal, biography, bibliography, formal, **inactive**, Canada
77. Glasgow Aligned Sites Network <http://www.geocities.com/alignedsites/> Personal, theoretical, essays, formal, **inactive**, United Kingdom
78. Beyond the Stone Age <http://www.geocities.com/CollegePark/Theater/1377/index.html> Personal, summaries, regional, formal, **inactive**, United Kingdom
79. Beringa 2001 Bioarchaeology Project <http://www.geocities.com/crowley58/> Corporate, project information, photographs, formal, **inactive**, United States
80. Manshead Archaeological Society <http://uk.geocities.com/mansheadsociety/index.htm> Corporate, society information, formal, **active**, United Kingdom
81. Serban Marin [http://www.geocities.com/marin\\_serban/](http://www.geocities.com/marin_serban/) Personal, CV, bibliography, essays, formal, **inactive**, Romania
82. Voyage to Kythera <http://www.geocities.com/Athens/Delphi/3728/> Personal, tourist information, formal, **inactive**, Greece
83. Archaeological Institute of America Orange County Society <http://www.geocities.com/aiaoc/> Corporate, society information, formal, **active**, United States
84. Archaeological Institute of America Toronto Society <http://www.geocities.com/aiautoronto/> Corporate, society information, formal, **active**, Canada
85. Clyde A. Winters <http://geocities.com/olmec982000/proto2.htm> Personal, theory advancement, essays, links, formal, **active**, United States
86. Côa Valley Petroglyphs <http://www.geocities.com/RainForest/3982/> Corporate, site information, formal, **inactive**, Portugal
87. Bangor Archaeological Society <http://www.geocities.com/Bangorarch/> Corporate, society information. Formal, **inactive**, United Kingdom
88. Jennifer's Archival Homepage <http://www.geocities.com/Wellesley/6265/> Personal, essays, formal, **inactive**, United States

## Appendix 2: the survey questions

1a	What is the name of your site?
1b	Are you the sole author of the website, or is it a group project?
1c	How would you describe the purpose of your site on Geocities?
2a	What is the URL (address) of your site?
2b	In what country is the site based?
3	What subject areas does your site cover?
4	Do you currently run any archaeology-related websites hosted elsewhere?
5	What year did you first establish the site?
6a	Do you still actively manage and update the site?
6b	If not, what year did you cease to update or manage the site?
7	After the closure of Geocities, do you plan to move your site to a new host?
8a	Do you record the number of visits to your site?
8b	If yes, roughly how many 'hits' does your site receive in a month, or how many 'hits' has your site had in total (please specify which total you are giving!)?



9	Have you (or, to your knowledge, has anybody else) ever published any printed material that includes a reference to your Geocities site?
10	Are there (to your knowledge) any incoming links to your Geocities site on the internet?
11a	Are there any primary data (for example, results from fieldwork or photographs of artefacts) on your Geocities site that are not publicly available elsewhere?
11b	If yes, please briefly describe an example.
12a	Are there any interpretations on your Geocities site (for example, theories or interpretative reconstructions) that are not publicly available elsewhere?
12b	If yes, please provide a brief example.
13	Please feel free to make comments about the closure of Geocities, your experience of running an archaeology-related site on Geocities, or your thoughts about archaeology's place on the internet in general in this space.

## References

- Dahlberg, L** 2001 The internet and democratic discourse, *Information, Communication & Society* 4(4): 615–633 DOI: <http://dx.doi.org/10.1080/13691180110097030>.
- Digital Preservation Commission** 2002–2009 *Preservation Management of Digital Materials: the handbook*. Available at <http://www.digitalpreservation.org.uk/advice/preservationhandbook> [Last accessed 29 December 2013].
- Gill, K E** 2004 How can we measure the influence of the blogosphere? In: WWW2004 New York, NY. Available at [http://faculty.washington.edu/kegill/pub/www2004\\_blogosphere\\_gill.pdf](http://faculty.washington.edu/kegill/pub/www2004_blogosphere_gill.pdf) [Last accessed 19 May 2013].
- Hawks, J (@johnhawks)** 2012 “The real tragedy: a clearly well-funded and rich resource now is represented only by an archive page with hit counter locked at 7451.” 18 October, 2012, 12: 00. Tweet.
- Holtorf, C** 1999 Is history going to be on my side? On the experience of writing and submitting a hypermedia Ph.D. *Internet Archaeology*, 6. DOI: <http://dx.doi.org/10.11141/ia.6.2>.
- Holtorf, C** 2000–2008 *Monumental past: the life-histories of megalithic monuments in Mecklenburg-Vorpommern (Germany)*. Electronic monograph. University of Toronto: Centre for Instructional Technology Development. Available at <http://tspace.library.utoronto.ca/citd/holtorf/0.1.html> [Last accessed 19 May 2013].
- Law, M** 2011 Zooarchaeology on the internet: a view from Britain. *The SAA Archaeological Record*, 11(1): 11–14.
- Madden, M and Fox, S** 2006 Riding the waves of “Web 2.0”. Available at [http://www.pewinternet.com/~media/Files/Reports/2006/PIP\\_Web\\_2.0.pdf.pdf](http://www.pewinternet.com/~media/Files/Reports/2006/PIP_Web_2.0.pdf.pdf) [Last accessed 19 May 2013].
- Manovich, L** 2001 *The language of new media*. Cambridge, MA: MIT Press.
- McDavid, C** 1999 From real space to cyberspace: contemporary conversations about the archaeology of slavery and tenancy, *Internet Archaeology*, 6. DOI: <http://dx.doi.org/10.11141/ia.6.4>.
- McDavid, C** 2004 Towards a more democratic archaeology? the internet and public archaeological practice, in Merriman, N. (ed.) *Public archaeology*, London: Routledge: 159–188.
- Papacharissi, Z** 2002 The presentation of self in virtual life: characteristics of personal homepages. *Journalism and Mass Communication Quarterly*, 79(3): 643–660. DOI: <http://dx.doi.org/10.1177/107769900207900307>.
- Richards, J D** 2002 Digital preservation and access. *European Journal of Archaeology*, 5: 343–366 DOI: <http://dx.doi.org/10.1177/146195702761692347>.
- Richardson, L** 2013 A digital public archaeology? *Papers from the Institute of Archaeology*, 23(1): 10:1–12. DOI: <http://dx.doi.org/10.5334/pia.431>.
- Schablitsky, J M and Hetherington, N J** 2012 Archaeology on the screen, in Rockman, M., and Flatman, J (eds.), *Archaeology in society: its relevance in the modern world*, New York: Springer: 139–152.

**How to cite this article:** Law, M and Morgan, C 2014 The Archaeology of Digital Abandonment: Online Sustainability and Archaeological Sites. *Present Pasts*, 6(1): 2, pp. 1-9, DOI: <http://dx.doi.org/10.5334/pp.58>

**Published:** 02 May 2014

**Copyright:** © 2014 The Author(s). This is an open-access article distributed under the terms of the Creative Commons Attribution 3.0 Unported License (CC-BY 3.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited. See <http://creativecommons.org/licenses/by/3.0/>.

**]**u[ *Present Pasts* is a peer-reviewed open access journal published by Ubiquity Press.

**OPEN ACCESS** 