The Open Digital Archaeology Textbook Environment

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notice

This volume goes hand-in-glove with a computational environment built on the DHBox.

THIS IS A DRAFT VERSION



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Getting Started

How to use this text

yadda

How to contribute changes, or make your own version

bigglybeep

How to access and use the computational environment

link to site, instructions, also repo, also dhbox-on-a-stick

Colophon

how this site was made

Introduction

Digital archaeology as a field rests upon the creative use of primarily open-source and/or open-access materials to archive, reuse, visualize, analyze and communicate archaeological data. This reliance on open-source and open-access is a political stance that emerges in opposition to archaeology's past complicity in colonial enterprises and scholarship; digital archaeology resists the digital neo-colonialism of Google, Facebook, and similar tech giants that typically promote disciplinary silos and closed data repositories. Specifically, digital archaeology encourages innovative, reflective, and critical use of open access data and the development of digital tools that facilitate linkages and analysis across varied digital sources.

To that end, this document you are reading is integrated with a cloud-based digital exploratory laboratory of multiple cloud-computing tools with teaching materials that instructors will be able to use 'out-of-the-box' with a single click, or to remix as circumstances dictate. Part of our inspiration comes from the 'DHBox' project from CUNY (City University of New York, (link), a project that is creating a 'digital humanities laboratory' in the cloud. While the tools of the digital humanities are congruent with those of digital archaeology, they are typically configured to work with texts rather than material culture in which archaeologists specialise. The second inspiration is the open-access guide 'The Programming Historian', which is a series of how-tos and tutorials (link) pitched at historians confronting digital sources for the first time. A key challenge scholars face in carrying out novel digital analysis is how to install or configure software; each 'Programming Historian' tutorial therefore explains in length and in detail how to configure software. The present e-textbook merges the best of both approaches to create a singular experience for instructors and students: a one-click digital laboratory approach, where installation of materials is not an issue, and with carefully designed tutorials and lessons on theory and practice in digital archaeology.

Going Digital

In this section, blah blah blah. blah

more blah

1.1 Project management basics

blah

1.2 Github & Version control

blah

- 1.2.1 discussion
- 1.2.2 exercises

1.3 Failing Productively

blah

- 1.3.1 discussion
- 1.3.2 exercises

1.4 Open Notebook Research & Scholarly Communication

blah

- 1.4.1 discussion
- 1.4.2 exercises
- 1.5 Introduction to Digital Libraries, Archives & Repositories

yadda

1.6 Command Line Methods for Working with APIs

yadda

1.6.1 Working with Open Context

yadda

1.6.2 Working with Omeka

yadda

1.6.3 Working with tDAR

yadda

- 1.6.4 Working with ADS
- 1.6.5 Exercises

yadda

1.7 The Ethics of Big Data in Archaeology

Ethics! Lots of Ethics!

- 1.7.1 discussion
- 1.7.2 exercises

Making Data Useful

blah blah introd

2.1 Designing Data Collection

yada yada

- 2.1.1 discussion
- 2.1.2 exercises

2.2 Cleaning Data with Open Refine

blahde blah blah

- 2.2.1 discussion
- 2.2.2 exercises

2.3 Linked Open Data and Data Publishing

yargble blarble floss

- 2.3.1 discussion
- 2.3.2 exercises

Finding and Communicating the Compelling Story

blah blah blah

3.1 Statistical Computing with R and Python Notebooks; Reproducible code

blah

- 3.1.1 discussion
- 3.1.2 exercises
- 3.2 D3, Processing, and Data Driven Documents

blerg

- 3.2.1 discussion
- 3.2.2 exercises
- 3.3 Storytelling and the Archaeological CMS: Omeka, Kora

blargle

3.3.1 Omeka

bla

- 3.3.2 Kora
- 3.3.3 Exercises
- 3.4 Web Mapping with Leaflet
- ... I wonder if we should talk about GIS & Pandas, etc... or in R?
- 3.4.1 discussion
- 3.4.2 exercises
- 3.5 Place-based Interpretation with Locative Augmented Reality

yep.

- 3.5.1 discussion
- 3.5.2 exercises
- 3.6 Archaeogaming and Virtual Archaeology

yay archaeogaming

- 3.6.1 discussion
- 3.6.2 exercises
- 3.7 Social media as Public Engagement & Scholarly Communication in Archaeology

boo socmed

- 3.7.1 discussion
- 3.7.2 exercises

blah

Eliding the Digital and the Physical

crazytown3D Photogrammetry & Structure from Motion 4.1 vsfm4.1.1 discussion 4.1.2exercises 3D Printing, the Internet of Things and "Maker" Archaeology 4.2 yay 4.2.1discussion 4.2.2exercises Artificial Intelligence in Digital Archaeology 4.3 4.3.1 agent models blah 4.3.2discussion blah 4.3.3 exercises

4.3.4 machine learning for image captioning and other classificatory tasks

blah

4.3.5 discussion

blah

4.3.6 exercises

Digital Archaeology's Place in the World

blerg

5.1 Marketing Digital Archaeology

blag

- 5.1.1 discussion
- 5.1.2 exercises
- 5.2 Sustainability & Power in Digital Archaeology

the big ticket item.

- 5.2.1 discussion
- 5.2.2 exercises

On the Horizons: Where Digital Archaeology Might Go Next

blargble