



# Introduction to Static Web Technology

STEVEN PRYOR

DIGITAL SCHOLARSHIP LIBRARIAN

UNIVERSITY OF MISSOURI

File Edit Format View Help

</head>

<body>

<center></ce

<center><table width="600" border="3" cellpadding="2" cellspacing="1" bgcolor="#ffffff" bordercolor="#00

<tr>

<td colspan="2" bgcolor="#ffffff">

 <font size="2" color="000  
face="arial">Read about upcoming <b><u>OVID</u></b> System Changes <a  
href="merlin/pages/ovid\_trans.htm"><b>here</b></font></a>.

</td>

</tr>

<tr>

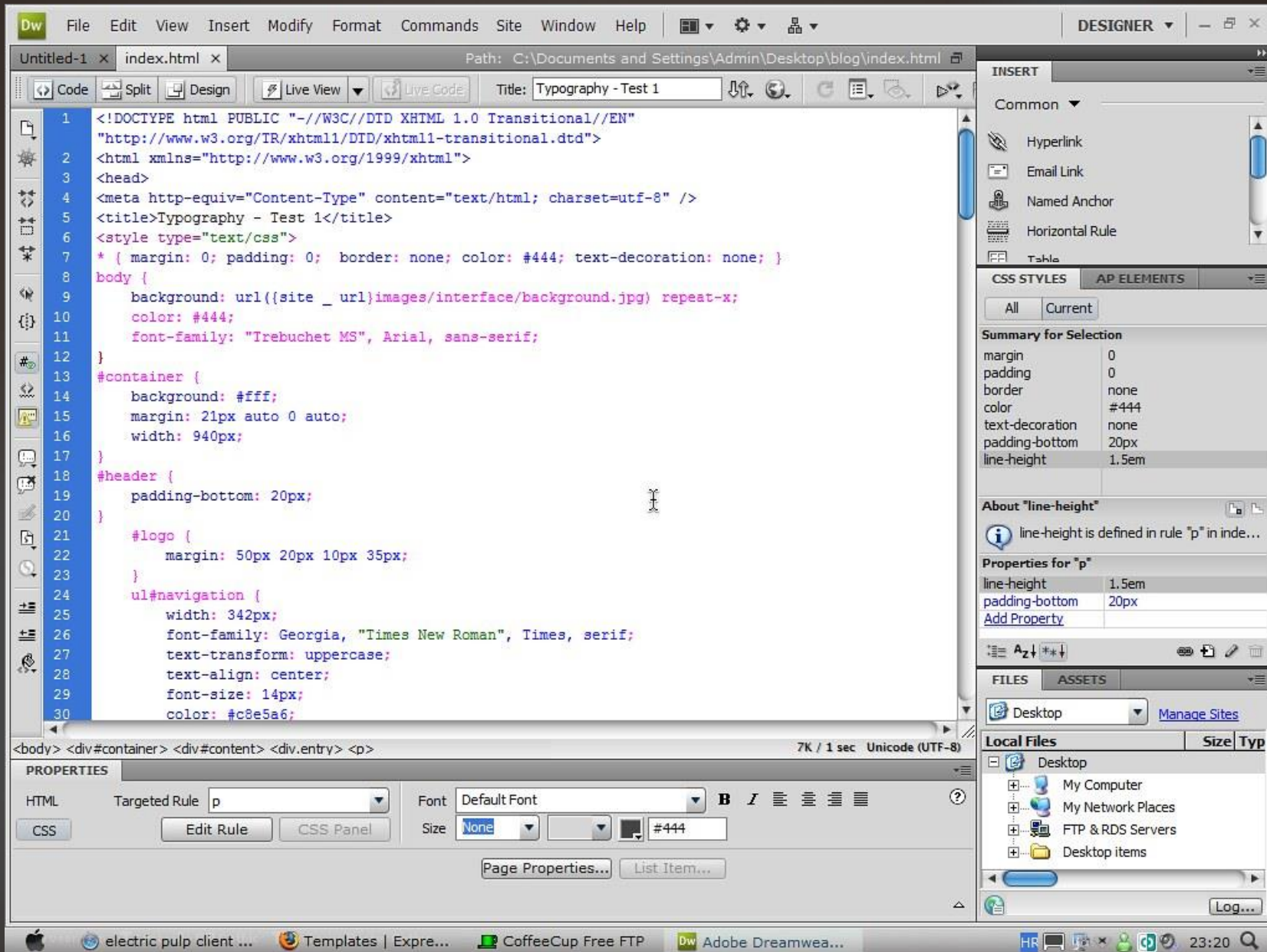
<td colspan="2" bgcolor="#ffffff">

 <font size="2" color="000  
face="arial">Need help getting to a particular MERLIN resource? Try the new <a  
href="merlin/pages/proxy.htm"><b>MERLIN Proxy Server</b></font></a>.

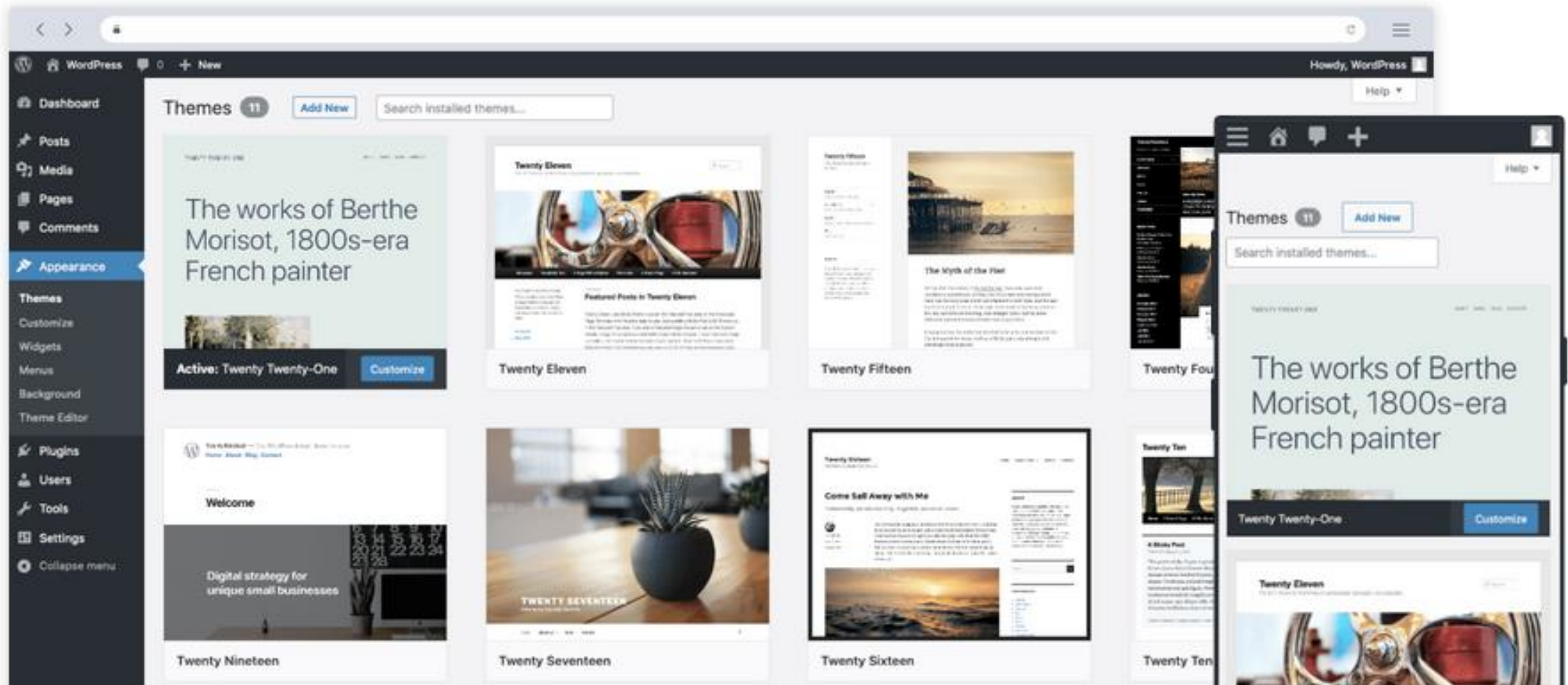
</td>

</tr>











Free Puppies!





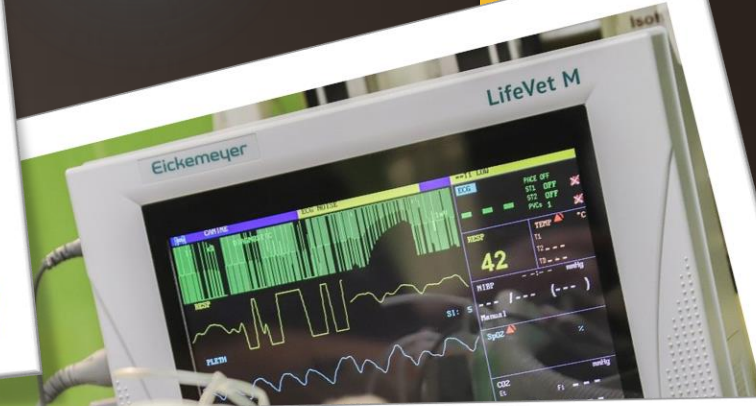
FSCMNN ❤️ 🐶 🐕 BrainCancerDiaries.com  
@fscmnn

Three dogs still available for FREE!

But seriously I wish it warm up already so we can  
have them in the backyard cuz they clearly have no sh  
At least the puppy isn't pooping in the house any  
and they didn't touch the laundry on the couch.



12:12 PM · Feb 26, 2021 · Twitter for iPhone

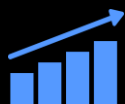




# Common Problems



# Maintenance



# Performance



# Security!



# Danger

- ▶ Digital decay
- ▶ Security incidents can also take them offline:
  - ▶ “...two digital projects that died because their version of Scalar got infected and they just had to go in the trash can...”



# Components of a “static” site



Templates



Content



Data



# What's different about it?

- ▶ CMS-based or other “dynamic” (dynamically-generated) sites display pages generated at the time of request.
- ▶ For static web sites, pages are generated all at once, before they are deployed online.
  - ▶ Rendered to standard, plain HTML/CSS
  - ▶ Can still use javascript, API calls, widgets, etc. for interactivity and some degree of dynamic data



# So, the old way?

File Edit Format View Help

</head>

<body>

<center></ce

<center><table width="600" border="3" cellpadding="2" cellspacing="1" bgcolor="#ffffff" bordercolor="#00

<tr>

<td colspan="2" bgcolor="#ffffff">

 <font size="2" color="006699" face="arial">Read about upcoming <b><u>OVID</u></b> System Changes <a href="merlin/pages/ovid\_trans.htm"><b>here</b></font></a>.

</td>

</tr>

<tr>

<td colspan="2" bgcolor="#ffffff">

 <font size="2" color="006699" face="arial">Need help getting to a particular MERLIN resource? Try the new <a href="merlin/pages/proxy.htm"><b>MERLIN Proxy Server</b></font></a>.

</td>

</tr>



# So, the *old way*?


- ▶ Sort of
- ▶ Generators are powerful, have their own languages or markup, and automate many repetitive actions and bits of code
- ▶ Further separation of *content* from *design*



# Demonstration



# Examples



< Ancient Terracottas > Catalogue > 51 >

## head of a woman

350-300 BC

[Expand All](#)

### Object Details

Catalogue Number	51
Inventory Number	76.AD.34
Typology	Head
Location	Sicily
Dimensions	H: 28.8 cm; W: 19.1 cm; Diam (polos): 12.2 cm

### Fabric

### Condition

A fragment of the back of the neck has been reattached; the polychromy is worn away, and parts of the head and neck are abraded.

### Provenance

<https://www.getty.edu/publications/terracottas/catalogue/51/>



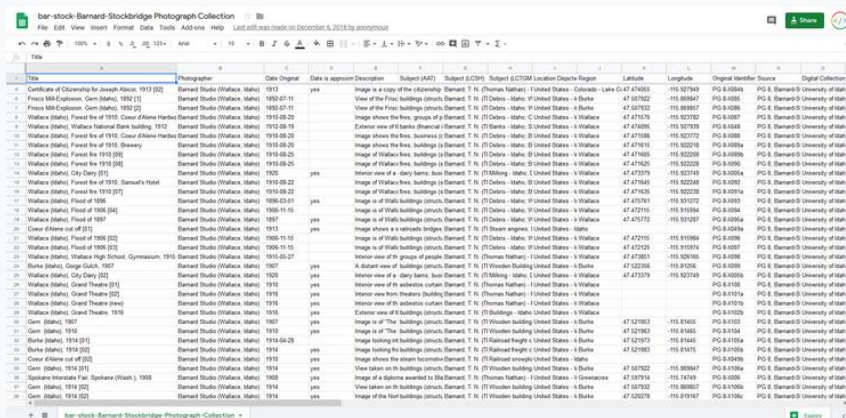
# Examples



Types ▾ Get Started ▾ Pricing About



**CollectionBuilder** is an open source tool for creating digital collection and exhibit websites that are driven by metadata and powered by modern static web technology.



## You do the Metadata.

## Step 1: Describe your images, documents, and other media in a CSV spreadsheet

<https://collectionbuilder.github.io/>

## Browse Items

Use this page to search by different attributes, such as vessel form; decoration type, method, element or color; paste type; or vessel size. To view attribute terms by frequency, visit the [Subjects page](#).

Filter ...

Search

Reset

80 of 80 items



### Saka-Bin (sake bottle) [2]

[Sake Tableware](#) [Hanjiki \(half porcelain\)](#)

[Saka-Bin \(sake bottle\)](#) [Other](#)

**Description:** This Saka-bin, or Western-style sake bottle, is the smaller of the two in the AACC collection. It is made of...

**Source:** Asian American Comparative Collection



### Sometsuke Take Chawan (bowl with cobalt hand-painted bamboo)

[Mealtime Tableware](#) [Jiki \(porcelain\)](#)

[Chawan \(indeterminate bowl\)](#)

[Sometsuke \(hand-painted cobalt\)](#)

**Description:** Based on its size and shape, this vessel sherd is likely from a large...



### Doban Chawan (transferprint bowl)

[Mealtime Tableware](#) [Jiki \(porcelain\)](#)

[Chawan \(indeterminate bowl\)](#)

[Iro Doban \(colored transferprint\)](#)

**Description:** Base and footring of a rice or side bowl. Decoration is an abstract botanical design with blue trellis-like...



# Downsides

- ▶ No database, no dynamic processing (yes, this is one of the strengths)
  - ▶ Means less capability for features like user accounts, personalization, ratings, recommendations, etc.
- ▶ The *whole* thing is built upfront (yes, this is one of the strengths...)
  - ▶ Websites with tons of data, tons of items, might have “pages” that never get requested. A collection with millions of items, for example, may be quite a bit less efficient to do this way.

# Links

- ▶ Using Static Site Generators for Scholarly Publications and Open Educational Resources, Code4Lib, Issue 42, 2018-11-08 [Link](#)
- ▶ CollectionBuilder [Link](#)
- ▶ Getty Publications, Quire [Link](#)
- ▶ Jekyll, Getting Started, Step-By-Step Tutorial [Link](#)
- ▶ Github pages (<https://pages.github.com/>) or Netlify are popular hosting options. Not a personal endorsement, but they're popular, and also have guides and tutorials on building this kind of site...the rendered HTML/CSS/JS can be hosted almost anywhere (some hosts can be set up to handle some of the build process as well)



# Thank You!

STEVEN PRYOR

PRYORS@MISSOURI.EDU