



RWD

Week 5

HTML/CSS Patterns & Prototypes

Advanced Responsive Web Design

< Todo's >

15-Minute Scrum

Thurs: Cross team 15-minute Scrum

Finish Sprint #2 Planning

Thurs: Kenna - Design is a Job

Mini Lesson: HTML/CSS Prototyping and Automated Tools

Thurs: Work on Sprint #2 (DUE next Thursday)

Trey: Book Report/Teaching on SASS for Web Designers





Breaking Down the Page



Process: Breaking down the Page

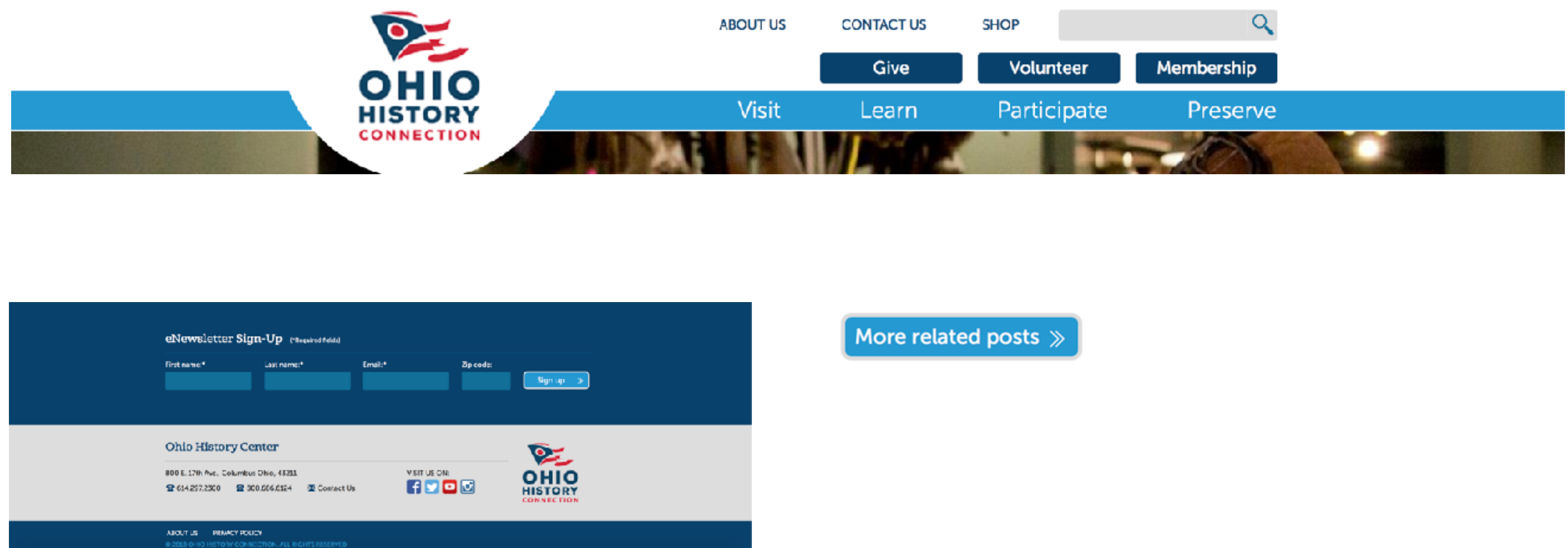
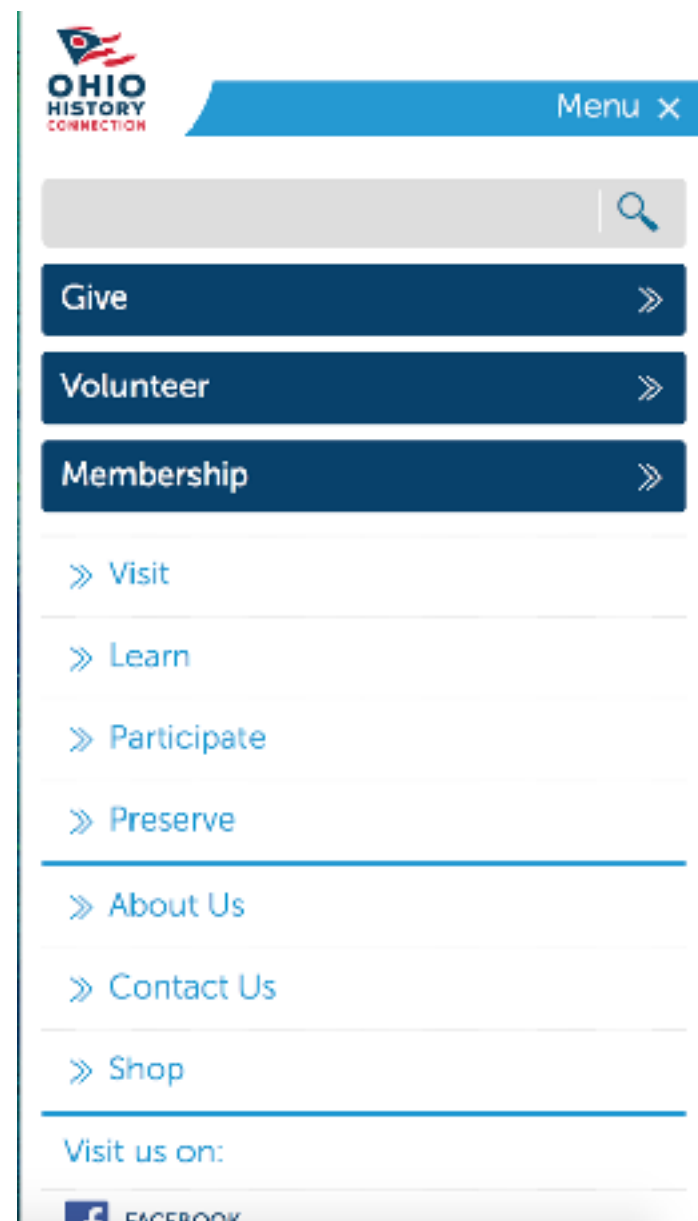
1. Create global components (header/footer/navigation/type)
2. Create layout templates (home, full layout, news layout, landing page layout)
3. Create individual pages and fill with content/smaller components



www.ohiohistory.org

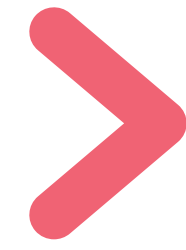


< Global Elements >





Templates



Home (1)



Landing (8)



News/Event Entry (many)



News/Event Listing (many)

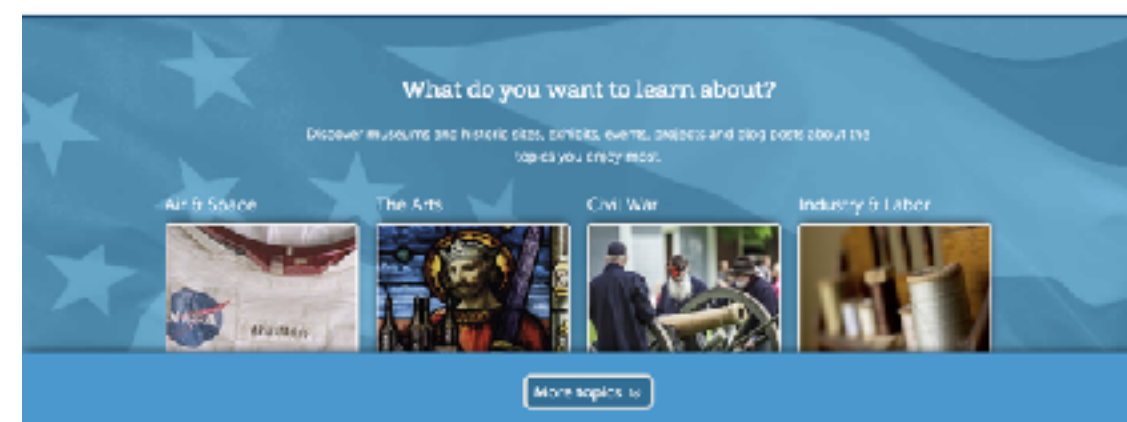
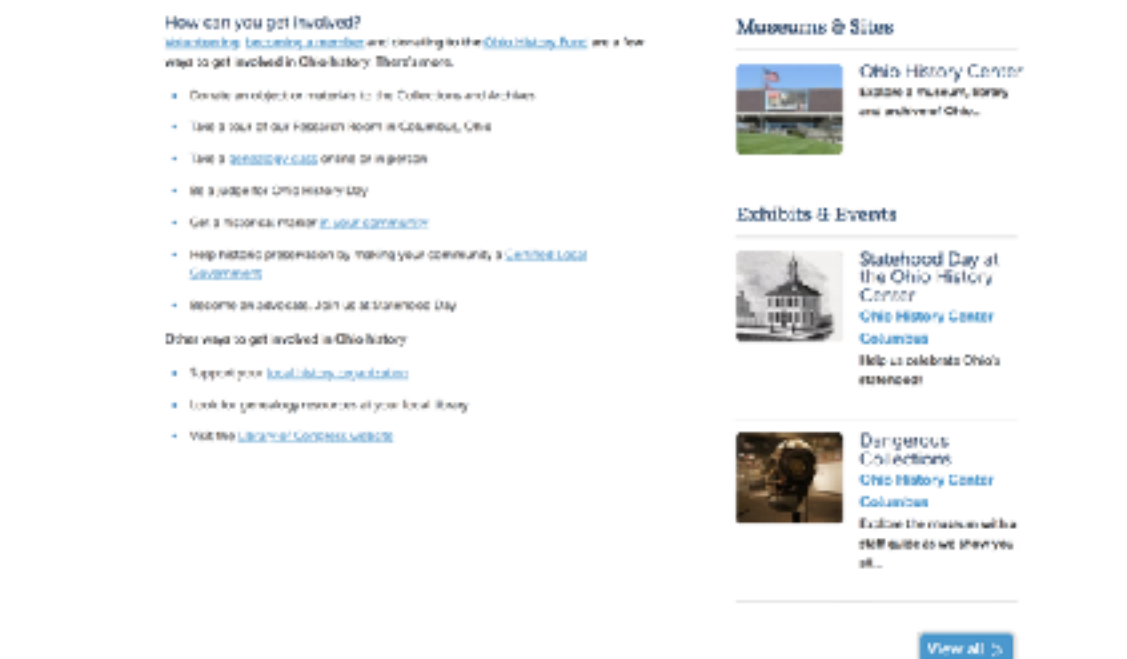




Pages

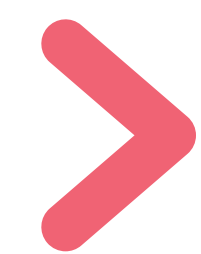


Participate Page





HTML/CSS Prototyping



< Prototyping Process >

Play around in CodePen (easy setup)

Create components in HTML/CSS in project lab folder

Use PHP to help repeat elements and create pattern library/
main templates

Move code from templates into Craft templates folder



CSS: the Magic Link

In our project, the CSS/SCSS files are shared between the prototyping site and the production site.

That means, we only have to write the CSS once.



< Folder Structure >

Open Up the KHS Folder

craft/templates - holds the CMS templates

httpdocs/assets - holds images, CSS and JavaScript

httpdocs/lab - static HTML for prototyping



< Automated Tools >



< Task Runners >

During the web design process, there are many manual steps required: compressing images, refreshing compiling SASS into CSS, minifying CSS and JavaScript,

Grunt is a form of a “Task runner”. Some others include Gulp & Webpack

A task runner is a command line app that allows you to declare a set of tasks and automatically run them when saving files

<https://www.smashingmagazine.com/2016/06/harness-machines-productive-task-runners/>



< SASS (scss) >

Short-hand for writing common CSS

Very popular

CodePen - automatically supports and compiles SASS

On your computer - must run a command line or GUI program to “compile” the SASS file into a CSS file the browser can understand (Grunt will do this for us)



< Grunt Setup >

```
httpdocs — grunt TERM_PROGRAM=Apple_Terminal — 80x24
duraedge          starter_kit2
ideabaseweb       test
khs               uxakron
local.kent.edu.crt valet
local.kent.edu.key
Hallahan-MacBook-Pro-15-inch-(CCI-S-C02VP657HTD6):Repositories Chris$ cd khs
Hallahan-MacBook-Pro-15-inch-(CCI-S-C02VP657HTD6):khs Chris$ ls
README.md      craft      httpdocs
Hallahan-MacBook-Pro-15-inch-(CCI-S-C02VP657HTD6):khs Chris$ cd httpdocs/
Hallahan-MacBook-Pro-15-inch-(CCI-S-C02VP657HTD6):httpdocs Chris$ ls
Gruntfile.js  htaccess  lab      node_modules  robots.txt
assets        index.php  livereload.js  package.json
Hallahan-MacBook-Pro-15-inch-(CCI-S-C02VP657HTD6):httpdocs Chris$ grunt
Running "watch" task
Waiting...
>> File "assets/sass/_body.scss" changed.
Running "sass:dist" (sass) task

Running "autoprefixer:your_target" (autoprefixer) task
>> 1 autoprefixed stylesheet created.

Done.
Completed in 2.581s at Tue Feb 13 2018 14:58:40 GMT-0500 (EST) - Waiting...
```



Instructions

Install Node.js for your OS <https://nodejs.org/en/download/>

Open up Terminal (on Mac, click spotlight icon then type Terminal)

Type "sudo gem install sass" and enter

Type "sudo npm install -g grunt-cli" and enter

Navigate to the directory where your project is located (khs/httpdocs folder) - use cd
DIRECTORYNAME

Type "sudo npm install" and enter

Type "grunt" and hit enter.

Save a file to test grunt build process



< Grunt Will ... >

Auto refresh the web site for you with the changes

Compress/minify CSS and JavaScript

Compile the SASS and create a CSS file

Autoprefix CSS

Inline the critical CSS





Now That Grunt Is Installed ...



Open Terminal

Type “cd DIRECTORY WHERE PROJECT IS/httpdocs”

Type “grunt”





Trey: SASS for Web
Designers



Upcoming

Thurs: Cross team 15-minute Scrum

Thurs: Kenna - Design is a Job

Thurs: Work on Sprint #2 (DUE next Thursday)

Next Tues: Mini lesson on CSS animation and non-traditional layouts with Grid/Flexbox

Next Tues: Lisa - Atomic Design

