Week 5

HTML/CSS Patterns & Prototypes

Advanced Responsive Web Design

IDEABASE
POWERED BY KENT STATE STUDENTS

< Todo's >

15-Minute Scrum

Finish Sprint #2 Planning

Mini Lesson: HTML/CSS Prototyping and Automated Tools

Trey: Book Report/Teaching on SASS for Web Designers

Thurs: Cross team 15-minute Scrum

Thurs: Kenna - Design is a Job

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

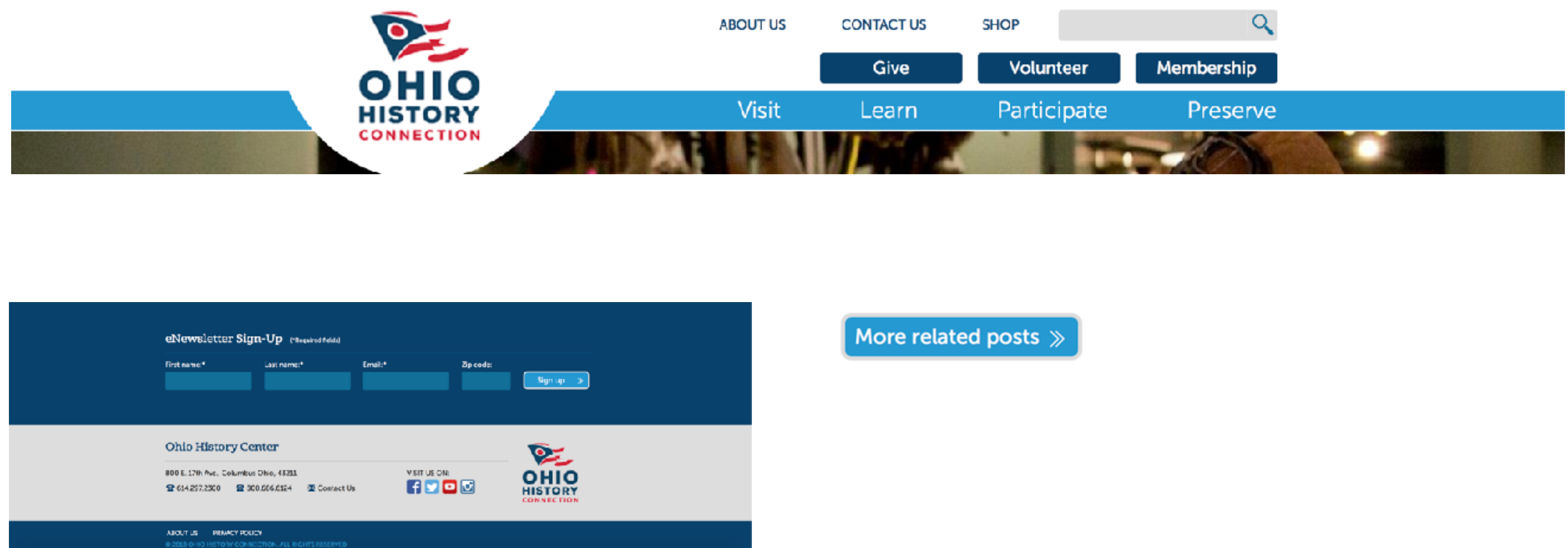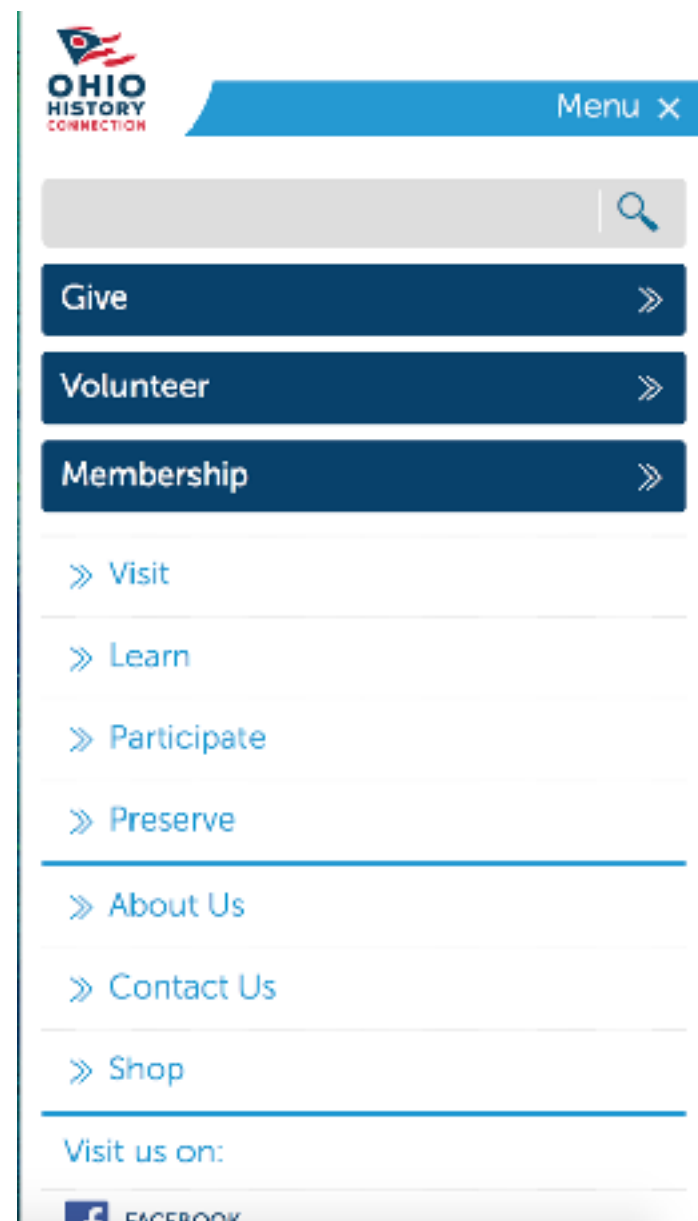# Breaking Down the Page

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
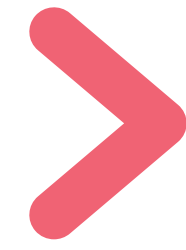
www.ohiohistory.org

Global Elements

Templates

Home (1)
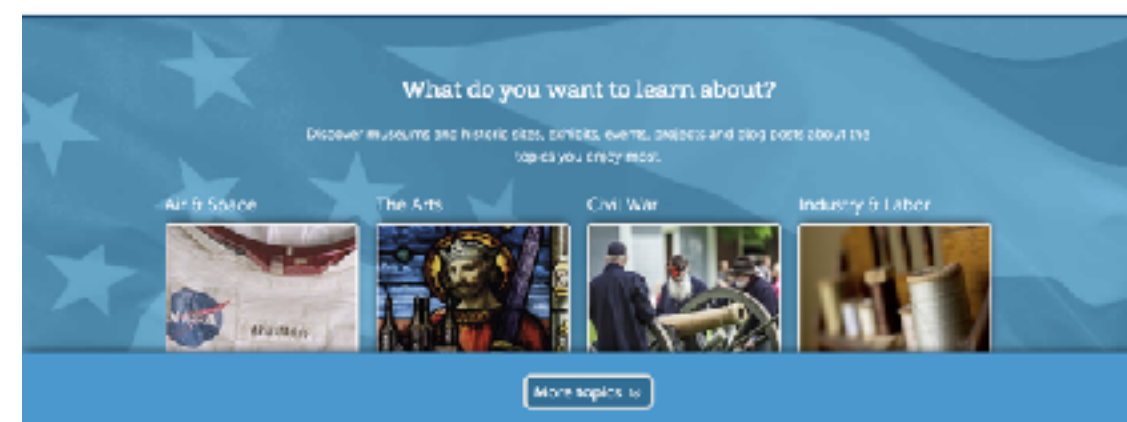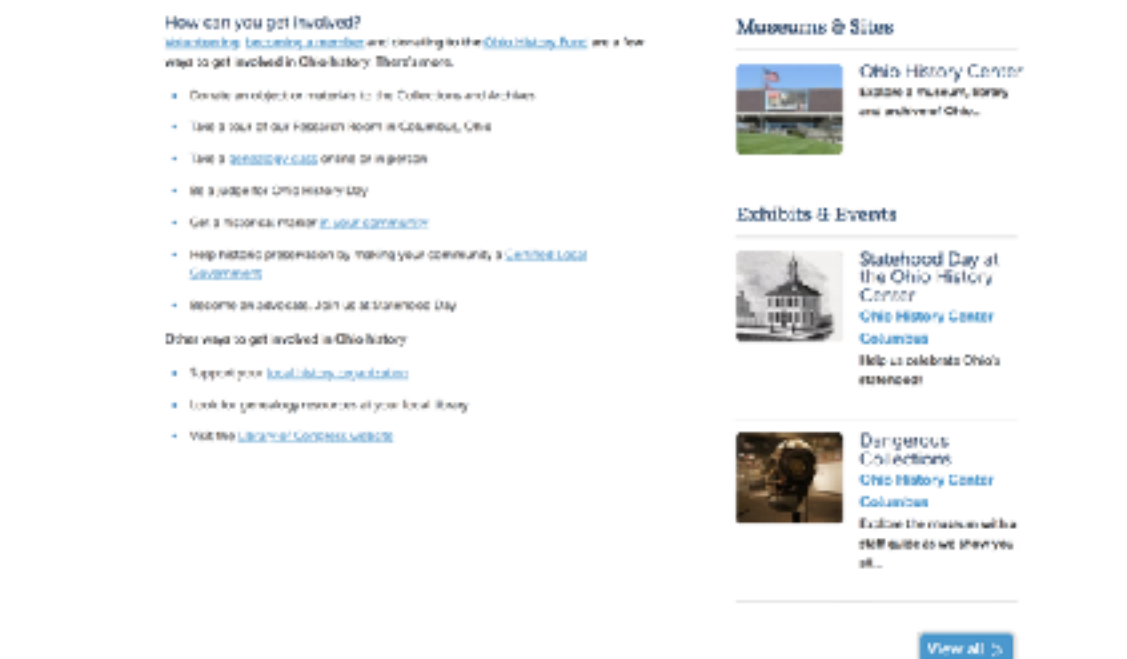

Landing (8)

News/Event Entry (many)

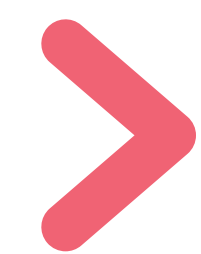News/Event Listing (many)

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

< 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

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

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