



RWD

Class 14

Overview

In Brief: CSS Properties, Print
Stylesheets, Responsive Email,
RWD Cost (20 min)

Usability, Accessibility, Technical
Testing Plans (15 min)

Break (5 min)

HTML/CSS Prototypes + Pattern
Libraries + Project Hubs Work
(1 hour)



Reminders:

Usability Testing Plan Results: Next Week

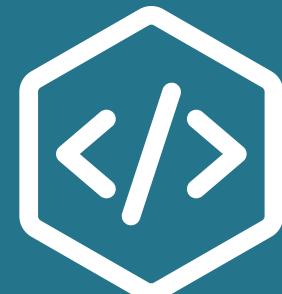
HTML/CSS Prototypes/Templates: Dec 13

Pattern Library: Dec 13

Demo Session/Critiques/Project Hub In Class: Dec 13

Self/Group Evaluation: by Dec 15 (Thurs)

Make sure you submit your assignments to your project hub and Blackboard Learn so that I can grade them!



Style Guides / Pattern Libraries



What Is A Pattern Library?



What's a Style Guide?



COLORS

Primary Colors



CfA Red
PMS 193U
C13 M94 Y69 K4
R204 G39 B62
#cf1b41
\$color-red



CfA Blue
PMS 2915M or 292C or 299U
C70 M24 Y0 K0
R63 G158 B216
#399fd3
\$color-blue



CfA Gray
PMS Cool Gray 10
C58 M49 Y46 K15
R109 G110 B113
#6D6E71
\$color-gray

Secondary Colors



Light Blue
PMS 297U
C50 M15 Y7 K0
R122 G181 B214
#7ab5d6
\$color-light-blue



Medium Blue
PMS 314U
C72 M27 Y16 K0
R66 G152 B187
#4298bb
\$color-medium-blue



Dark Blue
PMS 302U
C81 M66 Y51 K43
R47 G61 B74
#004b6a
\$color-dark-blue

<http://style.codeforamerica.org>



The screenshot shows a navigation sidebar on the left with links like Grid System, Typography, Form Elements, Navigation (which is selected), Tables, Lists, Slats, Stats/Data, Feedback, Dialogs, Fredicons, and Helper Classes. The main content area is titled "Navigation" and contains sections for "Local Navigation", "Switcher", and "Tabs". Under "Local navigation", there's an "Example" section showing a navigation bar with "Account settings", "My profile" (highlighted in blue), "Billing", "Extras", and "Rewards". Below the example is a code block:

```
1 <p class="mobile-top-nav nomargin full-width fwb">
2   <a href="#">Navigation</a>
3   <ul class="local-nav selfclear">
4     <li>
5       <ul class="hover-list">
6         <li>
7           <a href="#">Account settings</a>
8         <ul>
9           <li>
10             <a href="#/account/users">Users & account
11             details</a>
12           </li>
13           <li>
14             <a href="#/account/contact">Contact information</a>
15           </li>
16           <li>
17             <a href="#/account/domains">Verified domains</a>
18           </li>
19         </ul>
20       </li>
21     </ul>
22   </li>
23 </ul>
```

Notes

Local navigation is used to jump between pages that categorically fall under the same (main) section. The local nav shown in the example above is from the Account section and it is present on all pages under `/account`.

If there are secondary pages in a section, then links to those pages are shown inside `hover-list` menus. A blue-colored link indicates the page/sub-section currently in view.

The local nav spans the full width of the page up to 640px, at which point it collapses into a stacked menu.

<http://ux.mailchimp.com/patterns/>



An official website of the United States Government

This site is cu

U.S. Web Design Standards

Download code

Typefaces
Typefaces
Fairings and styles
Typesetting
Links
Lists
Colors
Palette
Text accessibility
Grid
Buttons
Labels
Tables
Alerts
Accordions
Form controls
Form templates
Search bar
Side navigation
Footers

Typefaces

Source Sans Pro

Source Sans Pro is an open-source sans serif typeface created for legibility in UI design. With a variety of weights that read easily at all sizes, Source Sans Pro provides clear headers as well as highly-readable body text.

Inspired by twentieth-century American gothic typeface design, its slender but open letters offer a clean and friendly simplicity. Advanced hinting allows Source Sans Pro to render well on Windows systems which run Cleartype, and across browsers and devices. Moreover, it supports a variety of languages and alphabets, including Western and European language, Vietnamese, pinyin Romanization of Chinese, and Navajo.

Merriweather

Merriweather is an open-source serif typeface designed for on-screen reading. This font is ideal for text-dense design: the letterforms have a tall x-height but remain relatively small, making for excellent readability across screen sizes while not occupying extra horizontal space.

The combination of slim and thick weights gives the font family a stylistic range, while conveying a desirable mix of classic, yet modern simplicity. Merriweather communicates warmth and credibility at both large and smaller font sizes.

Aa
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
0 1 2 3 4 5 6 7 8 9

Aa
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
0 1 2 3 4 5 6 7 8 9

<https://standards.usa.gov/>





CLASS / WORKSHOP / BLOG / ABOUT

PATTERN LIBRARY

Documentation of the primary patterns used on the Responsive Web Design Kent State website.

COLORS



TYOPGRAPHY

- Proxima Nova Soft
- Nimbus Sans Condensed
- Nimbus Sans

<http://rwdkent.com/patterns/>





STYLE GUIDE

- [COLORS](#)
 - [TYPOGRAPHY](#)
 - [LOGOS](#)
 - [ILLUSTRATIVE ICONS](#)
 - [USER INTERFACE ICONS](#)
 - [BUTTONS](#)
 - [PULL QUOTES](#)
 - [TYPE HIERARCHY](#)
 - [LISTS](#)
 - [EMAIL SIGNATURE](#)
-
- [MAIN STYLE GUIDE](#)

IDEABASE VISUAL STYLE GUIDE

Colors



Light Blue

#00a8e1
rgb(0, 168, 225)
PANTONE 2995
C: 80, M: 12, Y: 1, K: 0



Royal Blue

#1a5fab
rgb(26,95,171)
PANTONE 2935
C: 92, M: 67, Y:1, K: 0



Dark Gray

#4d4d4d
rgb(77,77,77)
PANTONE 425
C: 0, M: 0, Y: 0, K: 85



Light Gray

#bcbec0
rgb(188,190,192)
PANTONE 420
C: 0, M: 0, Y: 0, K: 30

Typography

Montserrat Bold

CSS Value: 'Montserrat', sans-serif
Weight: 700

Source Sans Regular

CSS Value: 'Source Sans Pro', sans-serif
Weight: 400

<http://www.ideabasekent.com/style>



Build for Reuse.



Must Maintain.



HTML/CSS Pattern Library Assignment

<http://rwdkent.com/class/assignments/styleguide/>



Brad Frost





How Does This Apply to Content Management Systems?



3 Options for Publishing Website

	Raw HTML	Static Site Generator	Content Management System
Pros	Simplest to do Fast Performance	Fast Performance Dynamically Created Templates	Very easy to edit (once set up) Many templates from which to choose
Cons	Must write all templates manually Must know HTML to edit	Must use command line to setup Must know HTML/CSS to set up	Generally slower performance Require database backend (if custom) A lot of overhead
Ex.	HTML in a code editor	Jekyll, Middleman, Cactus	WordPress, Drupal, Shopify, Craft, Squarespace



Movable Type

Drupal

Joomla!

Open-Source

WordPress

Magento





Cascade

Proprietary

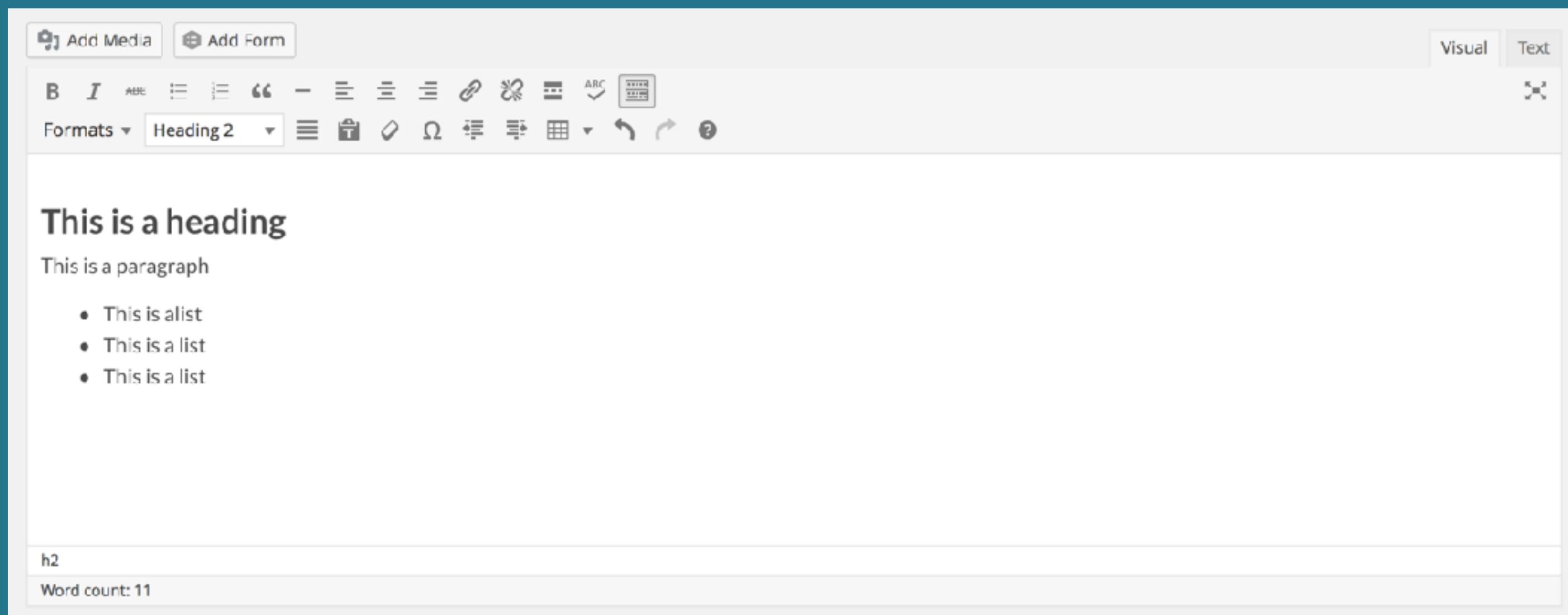
ExpressionEngine

SharePoint

Craft

Perch

WYSIWYG Editor





TECHNOLOGY **BITS | ROBOTICA**

The Family Dog

BY Zackary Canepari, Drea Cooper | Jun. 17, 2015 | [0:20](#)

When Sony stopped manufacturing replacement parts for its Aibo pet robot, owners scrambled to save the robot-dogs that had become part of their families.

Related: Article: [A Robotic Dog's Mortality](#)

Share:

Add New Video

Long Title:

Short Title:

Date Added:

+

Category:

Subcategory:

Description:

Video File:

Author(s):

+

Related:

+

Pre-roll Ad:

COPE = Create once,
publish everywhere



How Do You Get Your Content Into HTML/CSS?



WordPress: Theme

PHP (HTML) Files

CSS Files



Drupal: Theme

PHP (HTML) Files

CSS Files



Craft: Template

PHP (HTML/Twig) Files

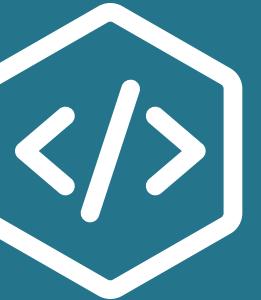
CSS Files



Squarespace /
WordPress.com, etc.

Closed Source HTML / CSS





← HOME

DESIGN

- Logo & Title
- Template
- Style Editor
- Checkout Page Style Editor
- Lock Screen
- Announcement Bar
- Mobile Information Bar
- Squarespace Badge
- Custom CSS
- Advanced

← DESIGN

CUSTOM CSS

This area will allow you to inject custom CSS rules into your site.

Warning: Adding custom CSS to your site can break your design. Please use caution when using this feature. Our support team will be limited in their ability to help you with design related issues if you have custom CSS.

[OPEN IN WINDOW](#)

Hosting Your Website

Publish Over FTP/SFTP/SSH via web host

Managed Hosting (SquareSpace etc.)

GitHub Pages



Hosting Your Website

Buy A Domain Name

Most if not all hosts will allow you to connect a custom domain name to your website.



Hosting Your Website

Deployment/Continuous Integration: Host files in a repository (such as GitHub) and have them “deploy” to the web server at certain times, or automatically.

Integrates version control with your server in a controlled way to prevent human error.

Many companies will use multiple “environments”: Local, Development, Staging and Production



Usability / Technical Testing Prep

HTML/CSS Template Work



HTML/CSS Templates/ Prototypes

www.rwdkent.com/class/assignments/templates



Linking multiple stylesheets.



Include @import
url('about.css'); at top of
CSS file



Pros

Separate styles for specific types
of content.

Prevents conflicts in Git.



Cons

Less efficient (takes longer) to load multiple stylesheets.

OK for prototyping.



Project Hub Example

<http://rwdkent.com/timeline/>



Are you building your CSS mobile- first??



CSS Properties



Transition

Change values over a specified duration with animation

<https://css-tricks.com/almanac/properties/t/transition/>



::after / ::before

Insert content via CSS before or
after an element

<https://css-tricks.com/almanac/selectors/a/after-and-before/>



columns

Auto flow text content into
columns with CSS

<https://css-tricks.com/almanac/properties/c/columns/>



transform

Manipulate an element by
rotating, translating or scaling

<https://css-tricks.com/almanac/properties/t/transform/>



shape-outside

Specify how content will wrap around an element (circle, ellipse or polygon).

<https://css-tricks.com/almanac/properties/s/shape-outside/>



typography control

hanging-punctuation, orphans,
quotes, widows, word-break



animation

Define keyframes for animating
between CSS properties

<https://css-tricks.com/almanac/properties/a/animation/>



Preprocessors

Using Tools to Speed Up Development



A CSS preprocessor is a tool
that provides shortcuts for
writing CSS.



You write in the preprocessor language
and a command converts your rules to
a regular CSS file.



Popular CSS Preprocessors:

SASS (SCSS)

LESS

Stylus



Features:

Nesting
Variables
Partials
Extends / Mixins
Logic
Output Styles



SASS Demo

<http://codepen.io/challahan/pen/YyRXWG?editors=110>



Frameworks

Bootstrap, Foundation, Etc.



Print Stylesheets



A separate stylesheet can be declared for printers only

```
<link rel="stylesheet" type="text/css"  
media="print" href="print.css" />
```



Responsive Email



53%

email opened on
mobile devices
in 2014.

<https://litmus.com/blog/53-of-emails-opened-on-mobile-outlookOpens-decrease-33>



••••• Verizon 6:21 AM 100%

All Inboxes (3)

From: Beverly Warren Hide

Thank You for a Remarkable First Year

Today at 6:08 AM



Members of the Kent State University Family:

A few weeks ago many of us cheered on the Cleveland Cavaliers as they doggedly and daringly chased an NBA championship. Although the trophy went elsewhere (for now), the season was a testament to the institution outcomes that are possible when a community is "all in" in the pursuit of a shared goal. Today, as I officially start my second year as your president, I am so very grateful for the many ways you proved that you are "all in" when it comes to building the positive momentum that abounds across our campuses. Your remarkable talents and unwavering dedication kept Kent State moving full speed ahead toward new and ongoing goals — from giving our students the best-possible opportunities to find their unique voices; one success academically; to shaping our society's future through epic thinking and innovative scholarship. It also allowed us to stand among a new class of relevant and responsive American research universities; to using our many resources to help the communities and region we serve progress and prosper.

What we have accomplished together points to a future that is truly meaningful and worthy of our enormous pride — the kind of pride we felt in recent months as our faculty's research and artistic grit put Kent State in the national spotlight and attracted major federal funding; our staff members' commitment to excellence allowed us to open magnificent new facilities like our Aerospace and Technology Building and our Center for Undergraduate Excellence; our students excelled in the roles of scholar, entrepreneur, volunteer, social activist and athlete; our alumni showed their appreciation for a superb school on through generous gifts of time, talent and treasure; and as our growing reputation as a destination university has destined our city to welcome the highest-achieving freshman class, largest number of international students and largest Kent Campus enrollment in university history.

The last year also brought us together in diversity and determine what Kent State's best, brightest and boldest future should look like. Nearly thousands of our university community members participated in a range of efforts to assess our strengths, opportunities, aspirations and results, including the Presidential Listening Tour that took me across Ohio and beyond to learn about the "heart" of Kent State; the One University Commission that explored ways we can maximize our unique abilities as an eight-campus system; and the Strategic Planning Institute that will soon allow us to move forward guided by clear statements of our shared vision, core values and key priorities for the next five years.

During the last 365 days, I have approached my work knowing how fortunate I am to be part of this wonderful community of high-energy, highly collaborative change agents — people of all ages and backgrounds; people with diverse beliefs and perspectives; and people who share a deep desire to illuminate the world with knowledge, creativity and compassion. You amaze me. You inspire me. And you keep me motivated to do everything in my power to help Kent State realize its highest aspirations on the rising tide of many accomplishments and uncantable salutes of the faculty, staff, students and alumni who call this outstanding university their home.

Again, I thank you with all my heart for your contributions during the last year. And I thank you in advance for making the choice to be "all in" as we learn, live and make a difference together in the months to come.

Wishing you a Happy Fourth of July and a great summer,

Beverly Warren

Flag | File | Box | Back | Edit



Email is just HTML
and CSS. It can be
made responsive.





Kent State Elects Beverly J. Warren, Ed.D., Ph.D., FACSM, as University's 12th President

The Kent State University Board of Trustees has elected Beverly J. Warren, Ed.D., Ph.D., FACSM, currently provost and senior vice president of Virginia Commonwealth University (VCU), as its next university president at a special board meeting held today (Jan. 8, 2014). Warren will begin serving as Kent State's 12th president on July 1, 2014. She will succeed retiring President Lester A. Lefton, who has served as Kent State's chief executive officer since July 1, 2006.

How Much Does RWD Cost?

<http://bradfrost.com/blog/web/how-much-does-a-responsive-web-design-cost/>





RESEARCH	\$12
INFORMATION ARCHITECTURE	\$12
VISUAL INTERFACE DESIGN	\$15
HTML, CSS, JAVASCRIPT	\$14
MAKING IT RESPONSIVE	\$200,000
	\$200,053



It depends.

Think of real estate.



It costs more.

(but brings more
value over time)



Budget Considerations

Discovery & Client/Team Education

Build in time for Process Change (Prototyping)

What To Do With Existing Content?

More Testing/QA Time + Device Purchases

Creating/Enforcing a Pattern Library

Replacing Existing Backend System (CMS)



Rollout Strategy

Retrofit

Beta Release

Mobile-only responsive

Section by Section

ALL AT ONCE



Going Responsive, Karen McGrane

Next Week

In class project work

In class usability testing + submit assignment

- Split into 4 different stations (Usability Round 1, Usability Round 2, Accessibility and Technical Testing)



Hands-On Work

