

JMS 302: HACKING THE MEDIA

CLASS 11: 9/23/2014

TODAY'S TASKS



- Reading and Writing Files with Ruby
- CSS Colors, Text, [Images; Embedding with HTML]

REVIEW

- Misc HTML
 - HTML5, DOCTYPE, comments, id, class, block, inline, div, span, iframe, meta, escape characters
- CSS
 - external & internal, selectors (type, class, id, child, descendant) & declarations, !important
- Writing your own Ruby methods
 - defining vs calling, parameters, scope, return values, nil

You've learned more methods, and technically this list is more than 18 methods. Some you don't need to memorize or use often (center, ljust). Some on this list are actually multiple methods (+ on a number vs + on a string).

WRITING FILES

- B** • Command-line trick: >
- C** • File
 - `File.open('test.txt', 'w') { |f| f.write "test" }`
 - `my_contents = File.read 'test.txt'.`
- B** • Dir
 - `Dir['**/*.JPG,jpg'], Dir.chdir '/Users/jms340'`

ls > my_files_and_folders.txt

YAML, SPLIT

- YAML
- require 'yaml'
- to_yaml
- YAML::load
- split
- my_string.split '\t'

B

to_yaml gives you a YAML-formatted string
load takes a YAML-formatted string and converts it back into the original form

DOUBLE-QUOTED STRINGS

- Special characters
 - `\n`, `\t`, `\s`
- Interpolation
 - variables (and expressions)
 - puts "my string is #{ my_string } and the return value from my_method is #{ my_method }"

C+

CSS COLORS

C • foreground, background

C • rgb, hex, named colors

B • rgba, hsla

- alpha: opacity/transparency. 0 = fully transparent, 1 = fully opaque

CSS TEXT

- B** • Typeface (serif, sans-serif, monospace)
- C** • Weight (light, medium, **bold**, black)
- C** • Style (**normal**, **italic**, oblique)
- FYI** • Stretch (condensed, regular, extended)

CSS TEXT

- C** • font-family, font-size (px, %, em), font-weight, font-style, text-align, vertical-align, :link, :visited, :hover
- B** • text-transform, text-decoration, text-indent, text-shadow
- A** • line-height, font-face, letter-spacing, word-spacing, :first-letter, :first-line, :active, :focus

B: Know key font-family groupings for the key typefaces:

- Georgia, Times, serif
- Helvetica, Arial, Verdana, sans-serif
- “Courier New”, Courier, monospace

C: Size: just know a way of specifying. Don’t expect you to convert.

MORE SELECTORS

B
C
B
A
A
A

SELECTOR	MEANING	EXAMPLE
EXISTENCE	[*] Matches a specific attribute (whatever its value)	p[class] Targets any <code><p></code> element with an attribute called <code>class</code>
EQUALITY	[=] Matches a specific attribute with a specific value	p[class="dog"] Targets any <code><p></code> element with an attribute called <code>class</code> whose value is <code>dog</code>
SPACE	[~] Matches a specific attribute whose value appears in a space-separated list of words	p[class~"dog"] Targets any <code><p></code> element with an attribute called <code>class</code> whose value is a list of space-separated words, one of which is <code>dog</code>
PREFIX	[^] Matches a specific attribute whose value begins with a specific string	p[class^"d"] Targets any <code><p></code> element with an attribute whose value begins with the letter <code>"d"</code>
SUBSTRING	[*] Matches a specific attribute whose value contains a specific substring	p[class*"d"] Targets any <code><p></code> element with an attribute whose value contains the letters <code>"d"</code>
SUFFIX	[\$] Matches a specific attribute whose value ends with a specific string	p[class\$"g"] Targets any <code><p></code> element with an attribute whose value ends with the letter <code>"g"</code>

GOOGLE DOODLE



LET'S FIGURE OUT HOW THIS WORKS

WHAT IT'S NOT: ANIMATED GIF, FLASH

Right click

Web inspector

- canvas

- style & background image (build the URL)

- script

Network & JavaScript

Archive version: <http://www.google.com/doodles/first-day-of-fall-2014>