Coding & Cocktails Session 4 Worksheet

Overview

In order to successfully create web applications, we will need to create a comfortable and productive environment to work in. The most basic tools you'll need for web development are a development environment and a web browser. During the session we'll give you suggestions and help you figure out how to configure them to your liking. If you are feeling ambitious, feel free to work through the prep work ahead of time but don't worry if you don't have time or get stuck - we'll walk through this in class too!

Prep Work (pairs nicely with a glass of wine)

1. Install Google Chrome - this is our preferred browser to work in.
2. Download a text editor - we recommend Sublime Text 2 (Windows 64 bit version for Windows users) (http://www.sublimetext.com/2)
3. If you don't have one yet, create an account on Github
4. Install Git (https://git-scm.com/downloads)
5. (**For macs only**) Install Homebrew
6. (**For macs only**) Download & Install iTerm
7. (**For macs only**) Install zsh and zsh completions using homebrew (brew install zsh zsh-completions)
8. (**For macs only**) Install oh-my-zsh for additional functionality (https://github.com/robbyrussell/oh-my-zsh#basic-installation)
9. (**For macs only**) Change the default shell to zsh: chsh -s /bin/zsh
10. (**For windows only**) Install ConEmu - you'll want to choose the "Download ConEmu Alpha, Installer (32-bit, 64-bit)" version
11. Sign up for our slack chat group to keep in touch with all of your KCWiT girlfriends - if you didn't receive an invitation let us know!

Configuring Sublime Text

These plugins make your coding life *so* much easier!

1. Install Package Control – this will be useful for installing other helpful sublime plugins.
2. Additional Useful plugins to install:
   Press ctrl+shift+p (Windows) or cmd+shift+p (Mac) to open the Command Palette then search for "Package Control: Install Package" That will open a list of packages available to you to install and choose.
   Note: If you'd like to uninstall a package after you've installed one open Package Control and search for "Package Control: Remove Package." Then you can select the package you'd like to uninstall.
   a. Emmet – quickly generate html/xml/css code
   b. BracketHighlighter – view matching opening/closing brackets easily in the gutter (left side)
   c. ColorPicker – insert/change/select colors
   d. SublimeLinter – **Note:** must have node.js installed on Windows if you are working with javascript or CSS
   e. Markdown Editing/ Markdown Preview - create and preview markdown formatting
3. Make it look pretty with themes
   a. Soda is a popular theme that comes in light and dark versions.

        b.   [Dracula theme](#) is colorful
4. Additional useful commands to get comfortable with:
    a. Re-indent
        i.   ctrl/cmd+shift+p - then search for "reindent"
    b. Keyboard Shortcuts
        i.   select all: ctrl/cmd + a
        ii.   cut: ctrl/cmd + x
        iii.   copy: ctrl/cmd + c
        iv.   paste: ctrl/cmd + v
        v.   undo: ctrl/cmd + z
        vi.   save: ctrl/cmd + s
        vii.   chrome devtools: ctrl/cmd + shift + i
        viii.   sublime command palette: ctrl/cmd + shift + p
    c. Splitting the Screen
        i.   1 - 4 columns: alt+shift+ 1-4
        ii.   2 - 3 rows: alt + shift + 8 or 9
        iii.   Grid of 4: alt + shift + 5
    d. Shift-tab to remove a leading tab for the currently selected text
    e. Move lines up or down:
        i.   ctrl/cmd + shift + up or down arrows
    f. Multi cursor
        i.   make edits in several places at once: ctrl/cmd+d

Chrome's In-browser Development Tools

Useful for debugging and inspecting your pages. For practice run through the following:
https://developers.google.com/web/tools/chrome-devtools/

1. Navigate to www.example.com in your chrome browser.
2. Check the console to see if there are errors loading the page (hint: windows ctrl+shift_i, mac cmd+opt+i)
3. How many different elements can you find in the body of the page (hint: check the elements tab)
4. Change the console location within your browser.

Command Line

Mac: iTerm/zsh

1. https://github.com/robbyrussell/oh-my-zsh

Windows: ConEmu

Open Settings

1. Under Startup > Specified named task dropdown choose {Bash::Git bash}
2. Additional configuration options:
    a. Fonts (under main)
    b. Background Image (Main > Background)
    c. Pad size (Main > Size & Pos) - add space between edge of window and text
    d. Transparency (Features > Transparency)
    e. Colors (Features > Colors)

Git

Mac: iTerm/zsh

Windows: ConEmu

Run these commands within your command line:
1. Set your name:
   a. git config --global user.name "YOUR NAME"
2. Set your email address:
   a. git config --global user.email "your@email.address"
3. Create a directory on your computer to store your github projects
   a. change directory: cd /Location/to/store/projects
   b. make directory: mkdir yourGitDirectory
   c. cd yourGitDirectory
   d. try cloning our learning resources directory
      i. git clone https://github.com/KansasCityWomeninTechnology/LearningResources.git

Let's Get Coding!

Now that we've gotten our machines set up to code let's start digging in and learning how to write code!
1. In keeping with our theme, you will have the opportunity to build a single web page during the session using some of the HTML skills we hope you will pick up from Codecademy. The page will include headers, paragraphs, links, graphics, and lists. Here are some ideas to get your creative juices flowing so you don't get writer's block at our workshop!
   a. What are your favorite Halloween movies?
   b. Cute or gory?
   c. What is your favorite fall tradition?
   d. What kinds of foods do you only eat this time of year?
   e. Find a picture on the internet that we can use to insert into your web page. Here's a good [example](). When you click on the image you want it to take you to a page that only has that image on it – not to another web site.
2. If you need a refresher on HTML or CSS we suggest beginning with the free HTML & CSS course on www.codecademy.com. Once you've finished HTML & CSS you'll want to check out the Javascript course.
3. Ask as many questions as you can think of, we're here to help!

Homework

Coding & Cocktails will take a holiday intermission for the remainder of 2015 but will start back up in January 2016, we look forward to seeing you then! In the meantime check out our github for additional study materials and learning resources:

1. https://github.com/KansasCityWomeninTechnology/LearningResources