AP Computer Science Principles

Summer Assignment 2019

Students who have taken the basic Computer class are exempt from this summer assignment

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OBJECTIVE: To introduce future students of AP Computer Science Principles to the basics of HTML, CSS, web design, and website hosting.

OVERVIEW: Follow the tutorial on Khan Academy. Follow the tutorial on W3schools. Complete the HTML test on W3schools. Build a basic three-page website, preferably hosted by www.000webhost.com. Create and share a "submission document" that provides proof of work and a link to the website you built.

ESTIMATED COMPLETION TIME: 10 hours

DUE: First day of school

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1. ### Create a Google Doc titled *yourlastname*-SubmissionDoc.
   You will paste information into this document and share it with me later.

2. ### www.KHANACADEMY.org
   ❏ Complete the following tutorials and watch the videos:
   https://www.khanacademy.org/computing/computer-programming/html-css

   ❏ Intro to HTML
   ❏ Intro to CSS
   ❏ Web development tools
   ❏ Further reading

3. ### www.W3SCHOOLS.com/html -- You'll see "HTML5 Tutorial" at the top of the page

   ❏ On the left side of the screen you'll see the full list of tutorials. Read and experiment with them. Click the green buttons that say "Try For Yourself." Do this from the top of the list with **"HTML Home"** all the way down to **"HTML Javascript."**

   ❏ After that, go to the HTML Graphics category and work through the **"HTML Canvas"** tutorial. That's 24 pages of HTML tutorials! You don't have to show me your work, but please understand that if you only skim through the pages, it will be obvious when you take the quiz.

   ❏ Scroll down to the HTML Quiz and take it. Get a screen capture at the end when it reveals your score. **Paste that screen capture in your Submission Doc as #1.** (It's okay if you get the questions wrong that are covered in the pages you were allowed to skip.)

4.   Build a 3-page website from scratch and make it available online through a webhost.

- ❏ Use the skills you now have to create three web pages that are accessible online through a web host.

  - ❏ Page 1 should be titled **index.html** and should be an introduction to you. It should include at least three photos of you, plenty of text, and at least one list (ordered or unordered). It should also have a navigation that links to all three pages of your site. If you're reluctant to include your personal information, use a fake name and location, but the images need to be yours.

  - ❏ Page 2 should be titled **page2.html** and should be about your favorite hobby or sport. It should include at least three photos and three paragraphs of text.

  - ❏ Page 3 should be titled **page3.html** and can be about anything you'd like, but it needs to have some connection to you and your life. Nothing random and unrelated to you. Also, all of the content needs to be created by you.

- ❏ You can use **inline CSS** (or internal or external). I'd like to see *some* CSS elements in your code somewhere so that I can be sure you understand the fundamentals of how it controls the layout, color, etc.

- ❏ I use Brackets as my text editor (www.brackets.io) It's a free download and works on PCs and Macs. It has a live preview feature that greatly helps you to see what your page will look like as you're creating it.

- ❏ Consider using www.000webhost.com as your host because it's free and simple. But if you want to use a different webhost, that's fine, too. (NO CMS templates. Do not use a "Website Builder." You must create your own HTML pages and upload them to the host site.)

- ❏ My website is a decent example of what you should be able to do by now. Even if yours isn't elaborate, I want you to have an understanding how I accomplished all the pieces of mine. http://www.mrsemig.com (or https://hollyemig.000webhostapp.com)

- ❏ ==Paste a link to your homepage as #2 in your Submission Document.==

5.   Share your Submission Doc (Go to File > "Share" and type hemig@ocssaints.org. I will let you know if I receive your shared document.

If you get stuck at any point in this assignment, text me at 405-760-6611. There will be times during the summer that I won't be able to answer the phone, so I ask that you always text first. If I can't help via text, I'll call you. Thanks! –– Mrs. Emig