

程序代写代做 CS编程辅导

COMP6080



Front-End Programming
Tutorial 2

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Mozilla Developer Network

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One of the most useful resources you'll encounter in web development is the **Mozilla Developer Docs** by Mozilla. I *highly* recommend using it as your first resource when you can.



Tip: Use mdn.io

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When looking for references on something like HTTP methods, you might want to Google that and choose the first MDN result. Instead, you can just type (something like) mdn.io/httpmethods into your browser. It behaves kind of like Google's "I'm feeling lucky" but for MDN.

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I would *discourage* the use of W3Schools, not because it's terrible anymore (see: W3Fools), but because MDN is almost always *better*.

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CSS Units

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I had an email last week with plenty of great questions, and I thought I'd share my thoughts on choosing CSS units (e.g. px vs em vs rem) with you all.

Disclaimer: This is just my advice, it isn't necessarily endorsed by the course. Take it with a grain of salt.

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I honestly use px (over em / rem) most of the time, because I was once told that it's mostly fine, and I haven't run into any terrible issues. It's **conceptually very simple**, which has a lot of advantages, and after reading these three articles (one, two, three) which propose different viewpoints, I'm relatively certain that primarily using px is mostly fine.

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CSS Units (cont.)

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To summarise, using relative units for text allows a developer to 'easily' scale up text, if they want to change the design; but the StackOverflow post says that this is somewhat overhyped a benefit.

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A lot of resources I've found have discouraged em in favour of rem, if you need to use relative units (except for media queries, which you don't have to worry about yet), e.g. see top comment in the StackOverflow post.

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Also, I know Hayden recommends pt in the lectures for font sizes, but honestly, I just use em (which is used more commonly than pt, according to many sources, e.g. MDN).

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Exercise: Sorry, Richard

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Take a look at

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<http://www.cse.unsw.edu.au/~richardb/email.html> for
review. Try to find all the things that could be improved.

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Some Obvious Things

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A good start is to use W3C Validator. Not everything it tells you matters *that* much. Use it with a grain of salt.

However, some things that are:

1. No DOCTYPE;
2. The CSS file is `style.html`;
3. Inconsistent capitalization and indentation;
4. The keyword meta tag isn't terribly useful (see: this article);
5. Unclosed HTML tags;
6. Use of `<blockquote>` and other tags to describe style, instead of CSS;
7. Use of HTML attributes (e.g. `bgcolor`) instead of CSS;
8. It's not very semantic.

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Exercise: AirBnB

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This is a page from the AirBnB website. Create a page that uses HTML and CSS to produce a page that looks as close to the image as possible. Hint: The primary color is Circular, which you don't have to replicate. Follow the structure, spacing, and font-sizes.



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This will help us quickly identify you and get you the right kind of help



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These articles might help

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Getting started

Your account

How do I create an account?

How do I reset or change my password?

Airbnb Referral Program Terms and Conditions

How do I edit, remove, or add a payment method?

How do I search for a place to stay?

How do I edit or change my payout method?

How do I contact a host before booking a reservation?

How do I deactivate or delete my account?

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What is Node.js

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It's essentially an environment to run JavaScript in the terminal (cf. web browsers). In a file, you might write a front-end for the browser and a back-end server to run in Node.js, both written in JavaScript.

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A Small Gotcha

Conveniently, there's a REPL (Read-Eval-Print-Loop) in Node.js (the `node` command). Much like the console in Developer Tools, this feels like a pretty straightforward JS environment at first glance. But it's not, really. It's *convenient*, but we can't and shouldn't expect such tools to always behave strictly as a pure JS environment because that's not the purpose of these tools. (See: Ch1 of YDKJS.)

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Exercise: A Simple Program

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Write a program to read a text file (one of data1.txt, data2.txt, or data3.txt) which contains integers on some of the lines. The program will determine the lowest and highest valued number, and print out the range (i.e. difference between max and min). Let's try to write it as simply as possible, first. (Sidney: Demo.)

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Now, how can we write this much more nicely? Notice how it takes quite a few lines to express a pretty simple concept?

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Improvements

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Typically, simple transformations can be done using **functional programming**, which JavaScript supports (yay!).

```
fs = require('fs');  
const data = fs.readFileSync('data.txt', 'utf8');  
const lines = data  
  .split('\n').filter(l => l !== '')  
  .map(l => parseInt(l));
```

```
console.log(  
  `The range is ${Math.max(...lines) - Math.min(...lines)}`  
);
```

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Template Literals

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Notice the string that we

``string text ${expression} string text``? This is called a **template literal** or template strings in older ES spec versions.

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They're super useful for **string interpolation** (much like Python f-strings) or multi-line strings. I recommend using them in favour of string concatenation, where you can.

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There's even a more advanced form that looks like

`tag`string text ${expression} string text``, called **tagged template literals**. (See: MDN.)

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