

程序代写代做 CS编程辅导

COMP6080



Front-End Programming
Tutorial 1

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Sidney Pham
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Week 1, Term 3 2020

<https://tutorcs.com>

Who am I?

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I'm **Sidney Pham**, a computer science student in my third year.
Sadly, it's my final term



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You can email me at sidney.pham@unsw.edu.au. I'm always happy to be messaged about anything.

Getting to Know Each Other

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I'd encourage you to turn your webcams on, if you're comfortable.

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Getting to Know Each Other

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Please, I'm lonely.

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Getting to Know Each Other

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I want to find out a few things about you all:

1. Name
2. How much experience do you have with front-end development?
3. Why'd you take this course?

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About the Course

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<https://webcms3.cse.unsw.edu.au/COMP6080/20T3/outline>

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My Approach to Tutorials

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Our class is on Tuesday, which is pretty early, so I'll try my best to not make too many assumptions about you having watched the current week's lectures.

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introductory. Assignment Project Exam Help

Additionally, I'll often stray from what the tutorial sheet indicates, in order to give you a broader and (IMO) more relevant understanding of the content.

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Okay, Maybe Even Further Back

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I'm supposed to teach you CSS right away, but in case anyone's lost, here's how it fits into the picture.

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Webpages are made out of HTML pages that define their **structure** and **content**. By itself, that doesn't really make it look any particular way (a tricky point that I'll get back to later).

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Let's See an Example

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In `box.html`, from the sheet, can you make a box that:

- is 100px wide;
- is 50px high;
- has 3px of padding;
- has a 1px border that is solid and of colour `#333333`;
- has 5px of margin on the left and right, and 10px of margin on the top and bottom; and
- has a background colour of `rgb(255, 255, 0)`.

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(Sidney: explain browser stylesheets.)

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Class vs ID

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We can add class attributes to HTML elements, e.g.

```
<h1 class="big-article">...</h1>
```



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tl;dr — you can only have one element of a particular ID, but as many elements of the same class as you want.

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Browsers will probably still display your page if you disobey, because they're very flexible, but it's still invalid HTML.

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Browsers will probably still display your page if you disobey, because they're very flexible, but it's still invalid HTML. Also, IDs can be accessed using anchor links in URLs; and you'll end up with weird behaviour in JavaScript (e.g. `getElementById`) if there are two elements with the same ID.

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Semantic HTML

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If there's one thing you learn from this tutorial, it's that you should try to write **Semantic HTML**. That is, your HTML should express the meaning and structure of the webpage (rather than its styling).



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If there's one thing you should take away from this tutorial, it's that you should try to write **Semantic HTML**. That is, your HTML should express the meaning and structure of the webpage (rather than its styling).



This means using new semantic elements in HTML5 such as **section**, **article**, **footer**, **progress**, **nav**, **aside**, **mark**, and **time**.

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There are *many* benefits for differently-abled users of your websites (e.g. **increased accessibility for screen-readers**), as well as non-browser user agents (e.g. **crawlers**).

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There are *many* benefits for differently-abled users of your websites (e.g. **increased accessibility for screen-readers**), as well as non-browser user agents (e.g. **crawlers**). This isn't even to mention separation of concerns and clearer DOM structure, which are themselves very important.

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What Does This Mean?

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This means, for example, you should try not to rely on your browser stylesheet to make an `h2` tag look bolder than a `p` tag. Or use `
` to create separate paragraphs of text (when you can use multiple `<p>` tags instead).

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An `h2` tag is only *less important* than an `h1` tag, not necessarily smaller, and if you want it to be smaller, make sure your CSS (or the stylesheet of the browsers that you're targeting) reflects that.

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Demo

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I'll demonstrate how



Developer Tools on this site.

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Demo

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I'll demonstrate how Developer Tools on this site.

Things I'd like to show

1. Image height and width;
2. Border, padding and margin;
3. Modifying properties;

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4. Font family;

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5. Border radius;

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6. iframe tags;
7. `:hover` states;

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I Love Flexbox

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Honestly, trying to align things before Flexbox was hell. For example, see the Clearfix Hack.

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In a recent project, I remember trying out all the different `display` options, trying different variations of `margin: auto` and even

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`vertical-align: center` only to have my design still look weird. But once I remembered that Flexbox was a thing, it just worked magically, which I'm way too impressed by.

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Learning Flexbox

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I honestly think that you shouldn't just rely on the lectures to teach you Flexbox (because it goes too fast).

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I recommend The First Search Result On Most Search Engines, Flexbox Froggy, Flexbox Defense and of course any MDN resource.

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An Exercise

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(Note: I don't think se necessarily demonstrates what you'd typically use F...)

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An Exercise

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(Note: I don't think se necessarily demonstrates what you'd typically use Flexbox for.)

Use div tags with flex properties to create a page that vaguely resembles this image:

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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 MDN docs by Mozilla. I *highly* recommend using it as a resource when you can.

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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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