

**CSE2201 Lab 3**  
**Department of Computer Science**  
**Faculty of Natural Sciences**  
**University of Guyana**

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**Description:**

In this table assessment, you will have a basic introduction to CSS.

**Starting Point:**

To get this assessment started, you should go and grab the raw text you need to mark up, and the CSS you need to include in your HTML. These assets are available at: <https://bitbucket.org/ChrisIsKing/cse2201/src> in the lab 3 folder. Create a new `.html` file using your text editor to do your work in.

**Lab Brief:**

You have been provided with some raw HTML and an image, and need to write the necessary CSS to style this into a nifty little online business card, which can perhaps double as a gamer card or social media profile.

Steps:

**Basic Setup:**

1. First of all, create a new file in the same directory as your HTML and image files. Call it something really imaginative like `style.css`.
2. Link your CSS to your HTML file via a `<link>` element.
3. The first two rulesets in the CSS resource file are yours, for FREE! After you've finished rejoicing at your good fortune, copy and paste them into the top of your new CSS file. Use them as a test to make sure your CSS is properly applied to your HTML.
4. Above the two rules, add a CSS comment with some text inside it to indicate that this is a set of general styles for the overall page. "General page styles" would do. Also add three more comments at the bottom of the CSS file to indicate styles specific to the setup of the card container, styles specific to the header and footer, and styles specific to the main business card contents. From now on, subsequent styles added to the stylesheet should be organized in an appropriate place.

**Taking care of the selectors and rulesets provided in the CSS resource file:**

1. Next up, we'd like you to look at the four selectors, and calculate the specificity for each one. Write these down somewhere where they can be found later on, such as in a comment at the top of your CSS. Can't remember specificity? Take look at the file `specificity.pdf`
2. Now it's time to put the right selector on the right rule set! You've got four pairs of selector and ruleset to match in your CSS resources. Do this now, and add them to your CSS file. You need to:
  - a. Give the main card container a fixed width/height, solid background color, border, and border-radius (rounded corners!), amongst other things.
  - b. Give the header a background gradient that goes from darker to lighter, plus rounded corners that fit in with the rounded corners set on the main card container.
  - c. Give the footer a background gradient that goes from lighter to darker, plus rounded corners that fit in with the rounded corners set on the main card container.
  - d. Float the image to the right so that it sticks to the right hand side of the main business card contents, and give it a max-height of 100% (a clever trick that ensures that it will grow/shrink to stay the same height as its parent container, regardless of what height it becomes.)
  - e. Beware! There are two errors in the provided rulesets. Using any technique that you know, track these down and fix them before moving on.

**New rulesets you need to write:**

1. Write a ruleset that targets both the card header, and card footer, giving them both a computed total height of 50px (including a content height of 30px and padding of 10px on all sides.) But express it in ems. Don't Understand em's & rem's? Read `font-size.pdf`
2. The default margin applied to the `<h2>` and `<p>` elements by the browser will interfere with our design, so write a rule that targets all these elements and sets their margin to 0.
3. To stop the image from spilling out of the main business card content (the `<article>` element), we need to give it a specific height. Set the `<article>`'s height to 120px, expressed in ems. Also give it a background color of semi-transparent black, resulting in a slightly darker shade that lets the background red color shine through a bit too.
4. Write a ruleset that gives the `<h2>` an effective font size of 20px (but expressed in ems) and an appropriate line height to place it in the center of the header's content box. Recall from earlier that the content box height should be 30px — this gives you all the numbers you need to calculate the line height.
5. Write a ruleset that gives the `<p>` inside the footer an effective font size of 15px (but expressed in ems) and an appropriate line height to place it in the center of the footer's content box. Recall from earlier that the content box height should be 30px — this gives you all the numbers you need to calculate the line height.
6. As a last little touch, give the paragraph inside the `<article>` an appropriate padding value so that its left edge lines up with the `<h2>` and footer paragraph, and set its color to be fairly light so it is easy to read.

**Hints & Tips:**

- Use the W3C HTML validator (<https://validator.w3.org/>) to validate your HTML; you'll get bonus points if it validates.

- Use the W3C CSS validator ([http://www.css-validator.org/#validate by input](http://www.css-validator.org/#validate_by_input)) to validate your CSS; you'll get bonus points if it validates.
- You'll get bonus marks if you write your CSS for maximum readability, with a separate declaration on each line.
- You should include `.card` at the start of the selector chain in all your rules, so that these rules wouldn't interfere with the styling of any other elements if the business card were to be put on a page with a load of other content.

**Example:**

The following screenshot shows an example of what the page might look like after being marked up.

