



School of Computer Science and Software Engineering

## CITS3403 Agile Web Development — Lab03

### Exercise 3: Cascading Style Sheets and A bit of JavaScript

The aims of this lab are:

- ❖ Start laying out your project web page
- ❖ formatting and layout your website with CSS,
- ❖ try out CSS3 borders and
- ❖ getting to know JavaScript through Node.js.

### Start working on your Project layout

Decide on the key pages of your site, design the layout and navigation flow.

You can scratch this on a piece of paper first and feel free to consult with your lab facilitator.

Use HTML5 form elements to collect user information, such as first name, nick name, surname, telephone, skill sets, email address and etc.

User HTML5 form to collect task related information, task name, descriptions, required skill sets, deadline, completion status and etc.

### Styling your Website

Return to the personal site you created in the last couple of labs. You can now use CSS to style the page according to your tastes. You should do this by a mixture of inline, document-level and external style sheet. Make good judgement on what type of style rules to use. For example, layout styles should be external, page-specific fonts and color scheme should be at document-level, while a form control that requires special attention should be using the inline style attribute. Practise with the various types of selectors, for example, element, group, contextual, class, id as well as pseudo selectors. Be sure to validate your CSS in addition to your HTML.

### Typography: Choose appropriate font types

Read [this online article about how fonts \(Sans-Serif and Serif\) can affect readability](#). A [local copy](#) is available for future reference.

Choose the font pairs to set the theme of your personal website and your project part 1.

### Have fun with CSS3 Borders and 2D Transformation

Explore the [CSS3 Please](#) rule generators to add some fancy borders and some transformations to your images.

Find out from the [W3School's Tutorial on 2D Transforms](#) on how to use the `matrix()` method for 2D transform.

### Getting started with JavaScript: NodeSchool.io

In this part of the lab we are going to install Node.js, and then use a preconfigured tutorial to go through some javascripting exercises.

1. To install Node, go to <https://nodejs.org/en/>. You should be able to download and install node for your platform. On the lab machines, a Node environment is available:
  - ❖ in windows: start menu ; all programs; CS Applications; NodeJS; NodeJS command prompt
  - ❖ in linux: you can find node in the developer menu.
2. We will be using tutorials from [NodeSchool.io](#). Use the *node package manager* (npm) to install the javascripting tutorial:

#### UNIT COORDINATOR

[Dr Tim French](#)

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#### LAB FACILITATOR

**Mr Michael Stewart, Mr Tom Smoker**

#### CONSULTATION TIME

Where: CSSE rm 2.14

Time: Wednesday 11-12pm

No appointment needed.

#### NEWS:

- ❖ [27 Feb 2019] This unit currently has 105 CITS3403 students and 29 CITS5505 students enrolled.
- ❖ [27 Feb 2019] Labs start in week 2. As Monday marsch 4th is a public holiday the first lab will be in Wednesday. Students in the monday lab can do the labs the following week.

```
npm install -g javascripting
```

(npm is a great tool for access lots of cool javascript libraries).

3. At the node prompt, type

```
javascripting
```

This should display a menu in the terminal, with about 20 different exercises. For this weeks lab, work through those exercises. These should prepare you for the more more advanced exercise below.