



# COS30045 Data Visualisation

## Task 1.2 Technology Fundamentals JavaScript Review

<b>ILO</b>	Create web-based interactive visualisations using real-world data sets.
<b>Aim:</b>	Demonstrate basic familiarity with JavaScript coding
<b>Resources:</b>	<i>Textbook:</i> Murray Ch 3 <a href="#">Murray on ProQuest</a> <a href="#">Murray on Safari</a> <i>Web Resources:</i> <a href="#">W3Schools</a> <a href="#">Mozilla Developer Network</a> <a href="#">codecademy</a> <a href="#">W3schools JavaScript Quiz</a> <i>Videos:</i>
<b>To be marked as Complete your submission must:</b>	Submit working code that meets the requirements specified in document below. Demonstrate appropriate use of HTML, CSS and JavaScript. Properly formatted code. Well commented code with references to code sourced from web, stack overflow etc. where appropriate. Demonstrate and explain code to tutor in class.
<b>Submission</b>	Submit to Doubtfire <ul style="list-style-type: none"><li>• screenshot of final webpage</li><li>• code</li></ul> Bring code to class to demonstrate to tutor

## Overview

In this unit you will learn to use D3 to create web-based visualisations. D3 is a JavaScripting

**Note:** This Task Guide is not meant to be fully explanatory. Unless you are already familiar with JavaScript you will need to read the text book and/or examine web resources. This is something you need to get used to doing when you get out into the 'real' world!

library that is used in conjunction with HTML and CSS. In this second review task you will add some JavaScript to your webpage from Task 1.1.

## Step 1 Add some JavaScript

So, it has been 6 years since the 2011 data that we used in Task 1.1 was collected. Have things changed? Add the data from 2017. Use JavaScript buttons to allow the user to switch between the two data sets. Make sure that you update the caption and alt text when swapping between the two.

You do not have to use the same style as in the example, but you are expected to apply some CSS styling on the buttons.

## Title of Article with Interesting Visualisation

Author of Interesting Article

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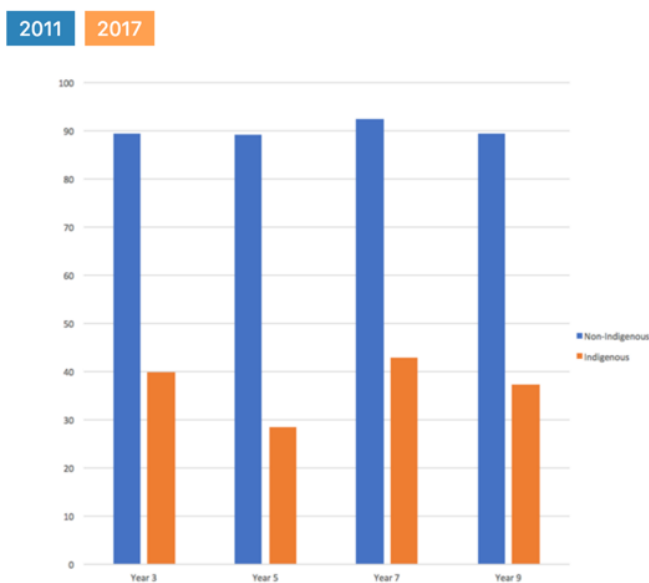


Fig 1. Percent of children above national minimum standard in reading for 2011 Year 3, 5, 7 and 9 for Non-Indigenous and Indigenous children in the Northern Territory. Data Source: [NAPLAN results](#)

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2011

2017

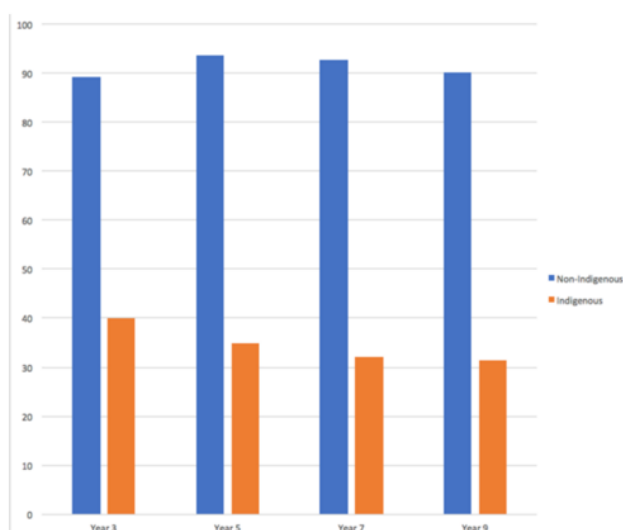


Fig 2. Percent of children above national minimum standard in reading for 2017 Year 3, 5, 7 and 9 for Non-Indigenous and Indigenous children in the Northern Territory.

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Semester 1 2018

**Tip:** If you have done COS10011 Creating Web Applications, it might be worth going back and reviewing your notes. We expect that the good practices you learnt in CWA are continued in this unit. For example, putting your CSS and JavaScript in separate files.