# HTML and CSS Practical

In this practical you will use your HTML and CSS knowledge to fix up an incomplete data visualisation and improve its appearance. To complete this practical you will need to know:

* The basic HTML elements required to make a valid HTML5 page
* How to create CSS selectors to style specific elements
* How to write basic styles for a selected element

1. Download the NSW Power Outages graph

* On the course website locate the NSWPowerOutages.html page.
* Look through the html to see how the bars of the graph are constructed.

1. Fix up the missing basic HTML elements

* The page currently doesn’t have any of the expected HTML5 elements
  + The DocType is missing
  + The embedded style element isn’t in the head of the document
  + The graph itself isn’t nested within a body element
* Add the necessary elements to make this page HTML5 valid
  + Test your work using the online [W3C HTML Validator](https://validator.w3.org/#validate_by_input)
* Each of the bars that represents the total number of customers that went without power for 5+ minutes is composed of the different types of events that resulted in the power outage
* Use your knowledge of data visualisations to come up with a suitable colour pallet to highlight the different types of events.
  + How many colours will you need? – check the HTML to work out the different types of events

1. Style the graph

* At the top of the HTML document an empty embedded style element has been added for you to complete.
* Use your basic knowledge of HTML and CSS selectors to write the appropriate CSS selectors that will style the different types of events with a recognisable colour.
* If you choose the correct CSS selector, the legend colour boxes will also be updated with no additional work!