University of Stirling
Computing Science and Mathematics
CSCU9A2 Tutorial 8 Spring 2017
(for week starting 27th March)

1. Take a *critical* look at the following web pages:

   ZDNet (IT company): http://www.zdnet.com/

   Pomona College Museum of Art http://www.pomona.edu/museum/

   The Afterlife http://heaven.internetarchaeology.org/heaven.html#bottom
   (This seems to behave differently in different browsers – try various)

   The actual content of these pages isn't important for the tutorial, what you should look at carefully is the colour scheme and layout. Critique both of these aspects and come ready to discuss your opinions at the tutorial.

   [For each page, consider the following: Is the colour scheme sufficiently contrasting? Are the colours going to cause problems for visually-impaired people? Try putting pages through the checks at `wave.webaim.org` and at an online accessibility checker such as `achecker.ca` (This checks for compliance with the W3C's Web Content Accessibility Guidelines (WCAG) 2.0), referred to in the lectures.) Mouse-over the page to see JavaScript effects, and try following some of the links. Is the page too colourful? Or boring and not colourful enough? Is the page well laid out? Can you easily locate which information is where on each page? If you like the layout, can you say what you do like about it? If you don't like the layout, can you say what you find to dislike about it?]

2. Imagine that a friend of yours owns a small portrait photography business. Your friend is knowledgeable about HTML and the World-Wide Web, and plans to put up a small web site to promote the business, but has also heard about the Equality Act 2010, and is worried about falling foul of that legislation. Knowing that you are doing a computing course at University, your friend asks you for your advice about what the law requires, and how best to make sure that the website complies with the law.

   What advice would you give your friend regarding his legal obligations?

   What general guidelines would you suggest to your friend to ensure that his website is accessible?

   What specific recommendations would you give him regarding how to design, implement, and test his website?

3. Consider the design of a Java class to hold the *details of a student's academic history* – this is the names and codes of modules completed and currently being taken, with the grades for modules already completed:

   What *tasks* would need to performed by the class (for example: "add a module")? What would the inputs (parameters) and outputs (returned results) of each task be? Design an *outline* Java class, with suitable *public method headers*. What private variables could be used to hold the necessary data? [Full Java code for the methods is optional...]

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