Specialist English: Assignment 1

Rebecca J. Stones
rebecca.stones82@nbjl.nankai.edu.cn

Date due: 15 October 2018

There will be 10 short assignments in this course, each worth 5% of the final mark. This first assignment is about demonstrating basic LaTeX skills.

Please email me your assignment with: (a) the LaTeX source code (.tex), (b) the BibTeX file (.bib), and (c) the compiled .pdf document. This is an English course; your assignment needs to be in English.

The task is to write a **mock paper** using LaTeX (1 or 2 pages). The contents do not matter (we're just practicing), but it should look vaguely like a computer science paper. It needs to contain the following:

1. Title, author name, date, and abstract. Sections and subsections. [2 marks]
2. Inline mathematics (e.g., $y = \pm\sqrt{x^2 - 1}$) and displayed equations, e.g., [1 mark]

$$\frac{\pi}{4} = \sum_{k=1}^{\infty} \frac{(-1)^{k+1}}{2k-1}.$$

3. A simple table related to computer science, referenced in the main text (using `\label{...}` and `\ref{...}`). [1 mark]

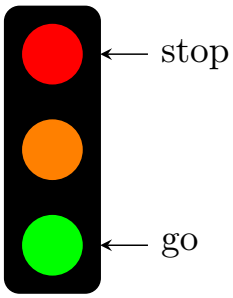
   (E.g., list a few specifications of three Apple iPhone models[1].)

4. A figure of an image related to computer science, referenced in the main text. [1 mark]

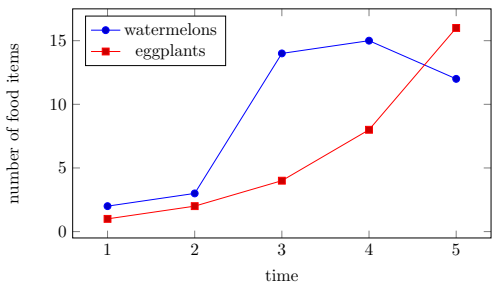
   (Wikimedia Commons has suitable images: `commons.wikimedia.org`. Attribute images to their source, e.g., write "Image source: ...".)

5. A short algorithm. (I recommend the Euclidean algorithm[2].) [1 mark]
6. A citation to a conference paper, and a citation to a journal paper. [1 mark]
7. *One of the following* (if you do both, I'll award the mark from the best answer): [3 marks]

   (a) Typeset this image using tikz (`\usepackage{tikz}`):

   (b) Make a simple data plot using pgfplots (`\usepackage{pgfplots}`), such as:

(I'm expecting you to search online to work out how to do things I haven't explained. Realistically, this is how we write LaTeX code.)

[1] `https://www.apple.com/iphone/compare/`
[2] `https://en.wikipedia.org/wiki/Euclidean_algorithm#Implementations`