Exercise your curiosity about the Internet of Things
IN722 Hardware

Things to start thinking about in Week One

Your lecturer for this paper won't be arriving in Dunedin until Week Two. That doesn't mean you get a week off! When I arrive, I want to have an intelligent conversation with you about the Internet of Things.

This class is not that big, so everybody will get to contribute.

Think about the following things, and come prepared to talk about about them. You don't have to write an essay, but I would strongly suggest that you:

- Read widely
- Make some notes
- Organise your thoughts
- Draw some diagrams

Here's some starting points for our conversation:

- Arduino and Raspberry Pi are both products that allow you to embed considerable computing power into quite small items at quite low cost. Explain the differences between the two products. Imagine a project that would be perfect for using Arduino, but not so good for Raspberry Pi. How about the other way around?
- Suppose you were intending to build a product that needed to report its location, using GPS coordinates, to a remote server. What collection of components (Arduino or Raspberry Pi or indeed, anything else you think might be better) would enable this to happen? How would they have to be configured? What constraints would you be introducing with your components/configuration?

N.B. There are no right or wrong answers to these questions—only a creative space to be explored. The more exploration you do, the more fun we'll have during class time.