EXERCISE 3

Let's try use some of the things we learnt in the last section. If you get stuck at any point, get my attention somehow and I will help you.

- 1. Create a document packages.tex in the sage_latex folder.
- 2. In packages.tex recreate the following table with the help of the booktabs package:

	m	\$m (exchange rate as of 31.07.2018)
Funding Council Grants	70.0	91.7
Academic fees and support grants	252.4	330.6
Research grants and contracts	109.4	143.3
Other operating income	73.7	95.5
Endowment income and interest	5.6	7.3
Total	511.1	669.5

Table 1: Newcastle University income (year ended 31 July 2018)

- 3. Add a label to the table and refer to it in the text "See ??", using the cleveref package. *Recall:* labels must be attached to the caption of the table.
- 4. Add the hyperref package to the document's preamble. Compile packages.tex. *Note:* hyperref must be loaded before cleveref in the preamble.
- 5. Take a look at this list of options that hyperref can take. Pass options to hyperref so that:
 - i) Links do not display with boxes around them
 - ii) Links are indicated by coloured text
 - iii) All links are coloured magenta

Hint: take a look at the options hidelinks, colorlinks and allcolors.

- 6. *Harder:* Download this dataset. On a new page use pgfplotstable to read in titanic35.csv and construct a table from the data. Once you have this then you should:
 - i) Wrap pgfplotstabletypeset in a table environment
 - ii) Insert a toprule before the header row, and a midrule after the header row.
 - iii) Insert a bottomrule after the last row.
 - iv) Style the Fare column so that all the fares are shown to two decimal places.
 - v) Align the entries in the Fare column by their decimal point. *Hint:* pass the argument dec sep align to the Fare column style.
 - vi) Right align the content in the Sex column and the Age column. *Hint:* look up the column type argument.
 - vii) Add a table stripe to every even row. *Hint*: Check out the every even row argument, and include \usepackage[table] {xcolor} in your preamble.