Subfigures and Subtables

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1 Subfigures

When writing a project report or thesis, we may want to include some slightly more complicated figures with multiple images. We can do this using subfigure environments inside a figure environment. Before we can do this though, we need to load up the caption and subcaption packages: \usepackage{caption} and \usepackage{subcaption}. Here's an example, as shown in Figure 1.

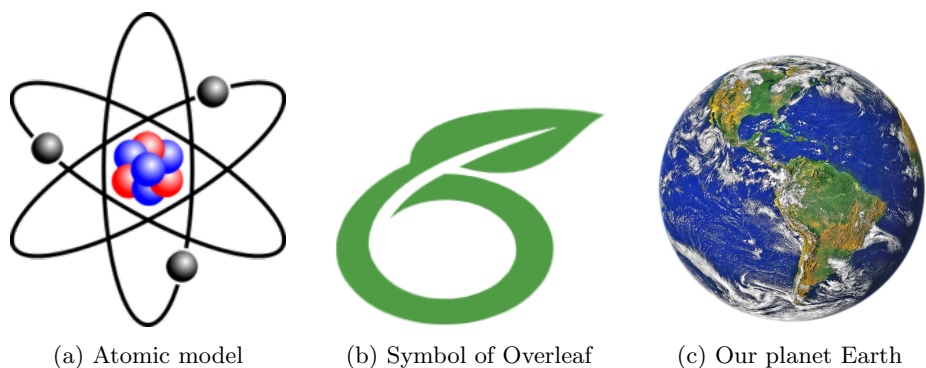(a) Atomic model   (b) Symbol of Overleaf   (c) Our planet Earth

Figure 1: Multiple subfigures inside a figure

To start with, we create a new figure, center it and then create a new subfigure. In the subfigure command, we need to add a placement specifier and then give it a width. Because we want three images next to each other, we set a width of 0.3 times the value of \textwidth. We need to make sure that the sum of the widths we specify for the subfigures is less than the text width if we want them all on the same line. When we add the image, we need to specify the width using width= followed by the \textwidth command. To add some spacing between the figures, we'll use the \hfill command.

2   Subtables

Just like with images, we may want to group tables into a single table environment. It can be done by using subtable environments inside a table environment. Here's an example, as shown in Table 1. Notice that in each \begin{subtable} command, we have included a position specifier and a width. Again, we can give each subtable a label and caption, as well as give the whole table a label and caption.

Day	Max Temp	Min Temp
Mon	20	13
Tue	22	14
Wed	23	12
Thu	25	13
Fri	18	7
Sat	15	13
Sun	20	13

(a) First Week

Day	Max Temp	Min Temp
Mon	17	11
Tue	16	10
Wed	14	8
Thu	12	5
Fri	15	7
Sat	16	12
Sun	15	9

(b) Second Week

Table 1: Max and Min temperatures recorded in the first two weeks of December

3 List of Figures

To create a list of figures, use the \listoffigures command. The caption of each figure will be used to generate this list.

4 List of Tables

To create a list of tables, use the \listoftables command. The caption of each table will be used to generate this list.

5 Table and figure side by side with minipages

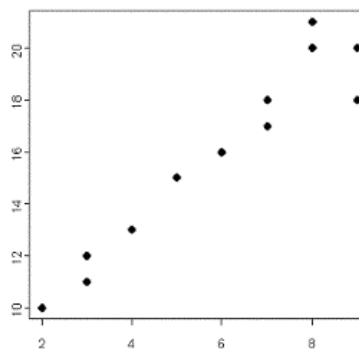| Student	Hours/week	Grade
Ada Lovelace	2	A
Linus Thorvalds	8	A
Bruce Willis	12	F
Richard Stallman	10	B
Grace Hopper	12	A
Alan Turing	8	C
Bill Gates	6	D
Steve Jobs	4	E

Table 2: Student Database

Figure 2: 2-D scatterplot of the Student Database