

1 The First Chapter of Our Book

1.1 *The very first section of our book*

First of all, since we want chapter and section numbers to be soft-coded (that is, electronically labeled and referenced) in our Word2TeX-translated TeX file, we need to have some electronic references in our TeX file as well. Therefore, let's formally announce that this is section 1.1 of Chapter 1.

Here is a display:

$$\begin{aligned} x &= 100, \\ y & \text{ or } \dots, \\ \frac{x}{n} &= \frac{100^n}{y} \quad n^{100(y25)} \quad (\dots) \quad \langle n \rangle \left\langle \begin{array}{cc} \mathbf{B} & a \quad b \\ \overline{k} & -c \quad d \end{array} \right\rangle, (1.1) \\ n & \mathbf{B} \text{ Pr } \lim_{x \ y} . \end{aligned}$$

Let's follow this display with a reference to equation (1.1). Great! Now let's have an index entry concerning equation numbers. Finally, here is a sentence containing math: Finding the j th term

of $n \frac{x}{t} \sqrt[n]{4x}$ may not be trivial.

1.1.1 A subsection in which a figure appears

Here is a figure.

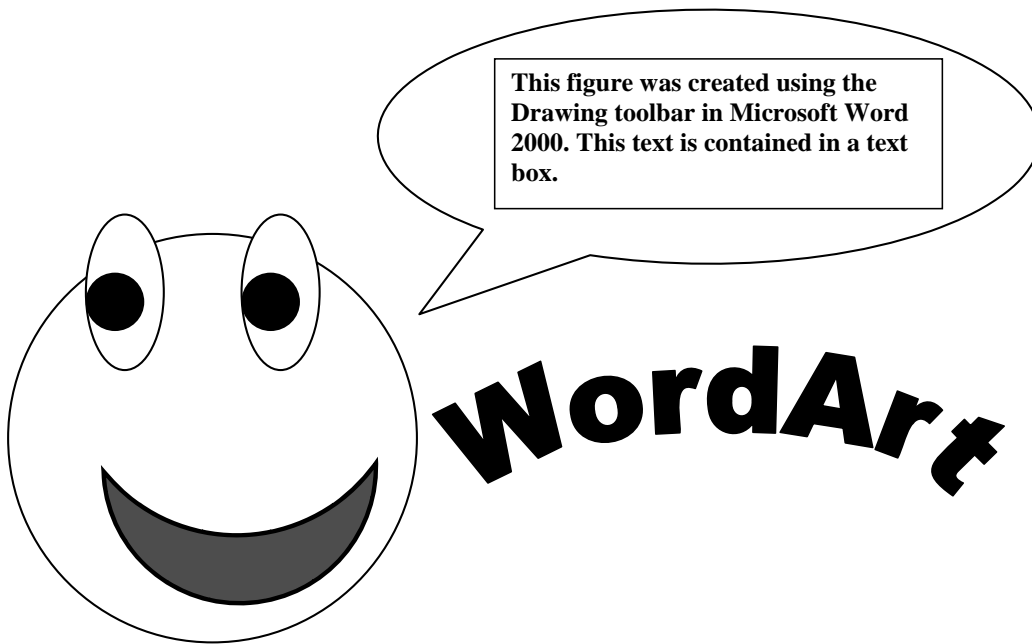


Figure 1.1. The first figure in our book.

Let's call this Figure 1.1.

1.1.2 A subsection that features a table

Here is a table. Not surprisingly, we'll refer to it as Table 1.1.

Table 1.1. Several examples of *Simpsons* characters in political office.

Character	Office	Still in Office?
Bailey, Mary	Governor	unknown
Quimby, Joseph "Diamond Joe"	Mayor	yes
Simpson, Homer	Director of Sanitation	no
Simpson, Lisa	President of the USA	n/a (possible future)
Terwilliger, Robert Underdunk "Sideshow Bob"	Mayor	no

1.2 More assorted examples

Back in subsections 1.1.1 and 1.1.2, we presented examples of figures and tables. Here in section 1.2, we present a footnote.¹ Moreover, we present our sole bibliographic citation: 1.

1 G. GRÄTZER, *Math into LaTeX*, 3rd ed., Birkhäuser–Springer, Boston, 2000.

¹With a little luck, this standard Word footnote will be translated nicely by Word2TeX.