

Latex Resources for Writing Programming Books

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Chapter 1

Examples

`programmingbook` is a package that I use to write programming books. It requires `listing` package and you can use it to write books in Chinese (with CJK). The latex source will look like this.

```
\documentclass[11pt,twoside]{book}

\usepackage{CJK}
\usepackage{programmingbook}

\begin{document}
\begin{CJK}{UTF8}{bsmi}
% your book here.
\end{CJK}
\end{document}
```

1.1 Program Listing

1.1.1 List the entire program

Use `programlisting` to list a program. The first argument is the file name, and the second argument is the caption.

```
\programlisting{scan-print.c}{從鍵盤讀入再顯示}
```

The previous code will produce the following.

範例 1.1: (`scan-print.c`) 從鍵盤讀入再顯示

```
1 #include <stdio.h>
```

```

2  /* main */
3  main()
4  {
5      int i;
6      scanf("%d", &i);
7      printf("%d\n", i);
8  }
9  /* mainend */

```

1.1.2 List a part of a program

Use `programlistingrange` to list a part of a program. The first argument is the file name, and the second argument is the caption. The third and the fourth arguments specify the range (within comments) to print.

```
\programlistingrange{scan-print.c}{從鍵盤讀入再顯示}{main}{mainend}
```

The previous code will produce the following.

程式片段 1.2: (scan-print.c) 從鍵盤讀入再顯示

```

3  main()
4  {
5      int i;
6      scanf("%d", &i);
7      printf("%d\n", i);
8  }

```

1.2 Input/Output Listing

Use `programinput` and `programoutput` to list program input and output. Note that we use `file.in` and `file.out` as the default file names to print if given the name `file`.

```
\programinput{scan-print}
\programoutput{scan-print}
```

The previous code will produce the following.

輸入

```
1  100
```

輸出

1	100
---	-----