

# A Brief Guide to C and C++ for Fortran or Basic Programmers

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There are plenty of fat books that explain C and C++ programming in hundreds of pages. In fact, however, some 30 pages are sufficient to explain them to anyone who has programmed in other languages such as FORTRAN or BASIC. This introduction does just that. Examples are very important in teaching programming, and every concept is illustrated. At the end of each section, a working program shows the concepts in use and exercises call for the application of the concepts to extend the program.

## 1. Basic Syntax

1. C and C++ are free-form; anywhere that a blank may appear, any number of blanks or new line characters may appear. This fact is used to give programs indentation which makes them easy to read. The indentation, however, has no effect on the operation of the program. They are case-sensitive: x is not the same as X.

2. Every expression statement ends with a ";" . Examples:

```
x = 1;
printf("Hello, World!");
```

Usually expression statements are assignments (like the first example), or function calls (like the second).

3. A single character is represented thus: 'a'. This is one byte.
4. A zero-terminated string is enclosed in " ". For example: "Smith" or "a" . This latter is two bytes: a0 . C provides a number of functions for working with such strings. Four commonly used ones are:

strcpy(a,b)	string copy: copies string b to string a.
strlen(a)	string length: returns the length of the string, the number of bytes in the string, not counting the 0 at the end.

# C For Basic Programmers

**Clemens Wendtner**



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