







File I/O — Streams

C's notion of file I/O is based on the notion of a *stream* — a sequence of characters/bytes. Streams can be *text* (characters arranged into lines separated by something platform-dependent) or *binary* (any kind of bytes). UNIX/Linux doesn't make a distinction, but some other operating systems do.

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- An input stream is a sequence of characters/bytes coming into your program (think of characters being typed at the console).
- An output stream is a sequence of characters/bytes produced by your program (think of characters being printed to the screen, including special characters such as the one for going to the next line).





Working With Streams in C To read from an input stream — fscanf, almost identical to scanf. To write to an output stream — fprintf, almost identical to printf. fgetc and fputc provide single-character input and output. When done with a stream, fclose to tidy up. (Particularly important for output files, which otherwise may not be completely written out.)



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