

Intro to file types  
Compilation  
**Basic compilation**  
Basic compilation  
Libraries

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## Simple compilation: files involved

- Use a text editor to create a program file: `myprogram.cpp`
- Use a compiler to translate that to an executable: `myprogram`
- ... and then run that file.

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## Simple compilation: the process

hello.c

```
int main() {  
    printf("Hello world\n");  
    return 0;  
}
```

icc -o hello.exe hello.c

hello.exe

- From source straight to program.
- Use this only for short programs.

```
%% icpx hello.cpp  
%% ./a.out  
hello world
```

```
%% icpx -o helloprog hello.cpp  
%% ./helloprog  
hello world
```

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## Exercise 1, C++ version

Create a file with these contents, and make sure you can compile it:

```
#include <iostream>
using std::cout;

int main() {
    cout << "hello world\n";
    return 0;
}
```