

Tools

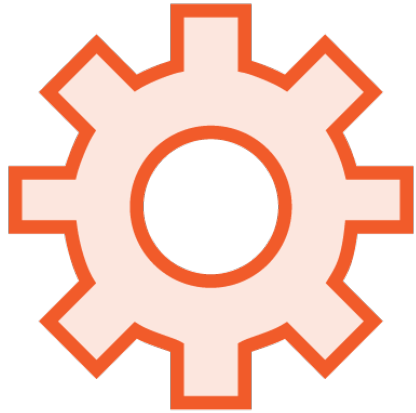


Kate Gregory

@gregcons www.gregcons.com/kateblog



What Do You Need?



A compiler and linker

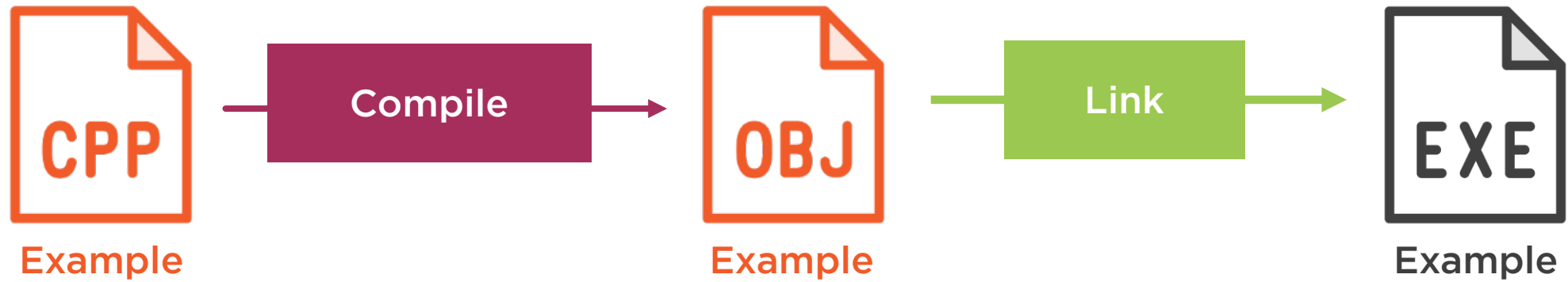


An editor for
source code

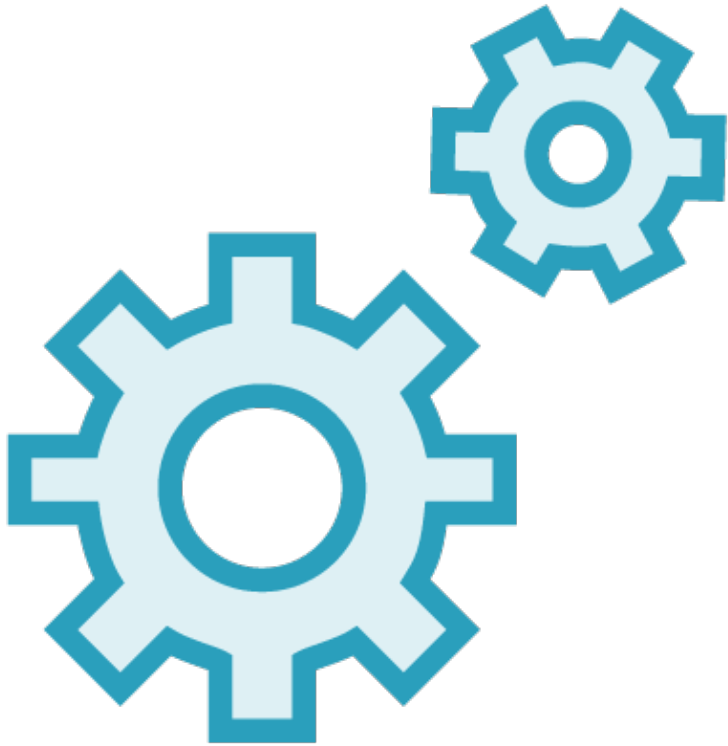


A debugger

Building



Popular Tools



Compile and link:

- GCC
- Clang

IDE:

- Visual Studio (for Windows)
- Visual Studio Code (for Mac and Linux)
- CLion

Online compilers

- Great for comparing compilers
- Testing new language or library features
- Sharing a snippet when asking for help

isocpp.org/get-started



Integrated Development Environment

Editor

Compiler

Debugger

Related tools



Visual Studio Editions



Community

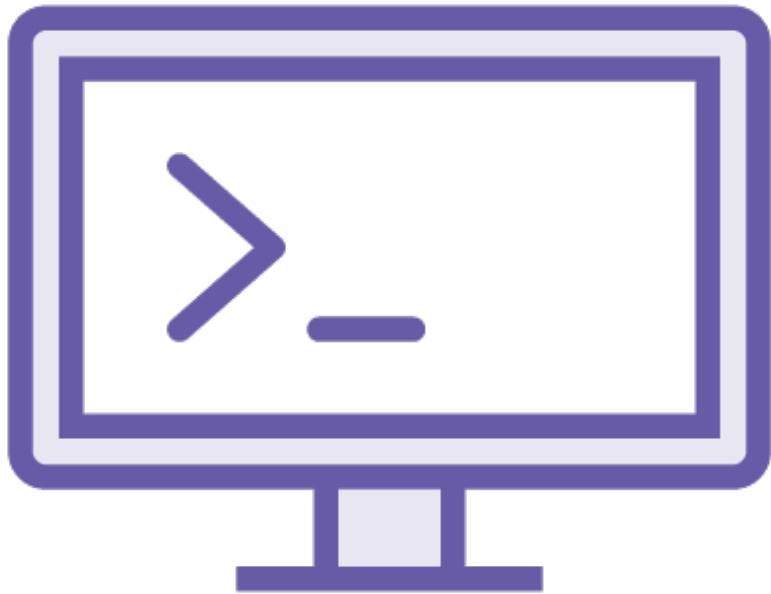


Professional



Enterprise

Kinds of Applications



C++ can be used to create a huge variety of applications

- Phone and other client apps (including Windows) including games
- Console applications
- Services
- Servers
- Libraries

Console applications are the simplest

- Write text to the screen
- Read text from the keyboard
- No graphics, no controls



Console Application Structure

// Hello.cpp : Defines the entry point for the console application.

```
#include <iostream>
```

```
#include <string>
```

```
int main()
```

```
{
```

```
    std::cout << "Type your name" << std::endl;
```

```
    std::string name;
```

```
    std::cin >> name;
```

```
    std::cout << "Hello, " << name << std::endl;
```

```
    return 0;
```

```
}
```



Summary



You can use a variety of tools for C++

- Cross platform language
- Widely used and supported

Edit your code

Build (compile and link)

Run (with or without debugging)

Console applications are the simplest to get started with

