Shyan Yen

1. What is the name of your language?

The name of the language is C++.

2. When/where was it created and by whom? Was it developed to address a particular computing problem or need?

According to <http://www.cplusplus.com/info/history/>, [Bjarne Stroustrup](http://www2.research.att.com/~bs/) created C++ at Bell Labs. The history of C++ itself dates back to 1979, where the language was first worked on first as C but later its name changed to C++ in 1983. The goal of Stroustrup was to add object-oriented programming to C. New features were added after its name changed to C++ such as [virtual functions](http://www.cplusplus.com/doc/tutorial/polymorphism/#virtual), [function overloading](http://www.cplusplus.com/doc/tutorial/functions2/#function_overload), references with the & symbol, and single-line comments using two forward slashes.

3. Is it primarily procedural, functional, scripted, object-oriented, or a combination of these? Or something else?

C++ has imperative and object-oriented features according to https://www.educba.com/uses-of-c-plus-plus/.

4. Is it compiled or interpreted, or a combination? Does it use a virtual machine?

C++ is compiled. It does not use a virtual machine, it is purely compiled. Source: [courses.washington.edu/css342/zander/css332/arch.html](http://courses.washington.edu/css342/zander/css332/arch.html)

5. What types of applications is your language primarily used for (e.g.: web development, video games, mobile devices, back-end services, operations engineering, etc.). If your language is multi-purpose, provide some examples of different applications it has been used for.

Specifically I chose this language because it is used to create video games which I am heavily interested in and passionate about for my future career. However, C++ is also used for GUIs, web browsers, databases, operating systems, enterprise software, and medical and engineering applications according to https://www.invensis.net/blog/it/applications-of-c-c-plus-plus-in-the-real-world/.

6. Search on Github.com for your language: what are the 3 most popular projects (the ones with the most stars) involving your language?

1. gRPC which enables client and server applications to communicate transparently, and simplifies the building of connected systems. Source: https://github.com/grpc/grpc
2. dmlc/xgboost which is a gradient boosting library that is efficient and portable. Source: https://github.com/dmlc/xgboost

### [ocornut/imgui which is a GUI library that enables quick iterations to create tools and visualizations. Source: https://github.com/ocornut/imgui](https://github.com/ocornut/imgui)

7. Where will you get information about this language when it's time to start programming in it?

LearnCpp.com

CPlusPlus.com

Cprogramming.com