C++ Prerequisites – Checklist

April 23, 2014

The very basics: do you know ...

- what a compiler does?
- what a main function is?
- what the difference between an int and a double is?

If you have seen Java, you should already know ...

- the basic data types,
- functions,
- arrays (even though they work a little bit differently in C++),
- controlling structures: for and while loops, if and switch statements,
- what classes and objects are.

C++ specifics that you really should know about are ...

- what **#include** <...> does (and what a header is),
- what the difference between *call-by-reference* and *call-by-value* is,
- pointers (!) and references,
- input and output streams (cout, cin, but also ifstream, ofstream)
- the STL container classes (vector, set, list, ...),
- the class string.

C++ specifics that are good to know are ...

- keyword const,
- the concept of iterators over containers.