

Notes on C++ programming

VS linking

Linker Tools Warning LNK4098 : [https://msdn.microsoft.com/en-us/library/aa267384\(v=vs.60\).aspx](https://msdn.microsoft.com/en-us/library/aa267384(v=vs.60).aspx)

[https://msdn.microsoft.com/en-us/library/aa293346\(v=vs.60\).aspx](https://msdn.microsoft.com/en-us/library/aa293346(v=vs.60).aspx)

<https://stackoverflow.com/questions/3007312/resolving-lnk4098-defaultlib-msvcrt-conflicts-with>

<https://blogs.msdn.microsoft.com/vcblog/2013/10/29/the-visual-c-linker-best-practices-developer-iteration/>

Implementing iterators

- <http://www.cs.northwestern.edu/~riesbeck/programming/c++/stl-iterator-define.html>
- <http://drdobbs.com/184401331>

Generating SVG graphics

- <http://code.google.com/p/simple-svg/>
- <https://batchloaf.wordpress.com/2011/11/23/simple-data-plotting-from-a-c-console-application-using-svg/>

Vectors

- Printing vector:

<sxh cpp>

```
#include <vector>
#include <iterators> // for ostream_iterator
#include <algorithm> // for copy
std::vector<int> v(0.0, 4);
std::copy(v.begin(), v.end(), ostream_iterator<int>(out, ","));
```

</sxh>

String

- Filling string with a given number of characters

<sxh cpp>

```
std::string s=std::string(12, '*');
```

</sxh>

- Parsing string into numeric vector

<sxh cpp>

```
#include <boost/algorithm/string/split.hpp>
#include <boost/algorithm/string/classification.hpp>
#include <boost/lexical_cast.hpp>
#include <vector>
#include <string>
```

```
std::string my_string("23x23,11 22");
std::vector<std::string> tok;
std::vector<int> numbers;
bool isOK = true;
boost::split(tok, my_string, boost::is_any_of(",x "));
try {
    std::transform(tok.begin(), tok.end(), std::back_inserter(numbers),
        &boost::lexical_cast<int,std::string>);
} catch (boost::bad_lexical_cast e) {
    isOK = false;
}
```

</sxh>

String stream

- Clearing string stream, <http://stackoverflow.com/questions/2848087/how-to-clear-stringstream>

<sxh cpp> std::ostringstream oss; oss.str(std::string()); oss.clear(); </sxh> === Virtuality ===
* <http://stackoverflow.com/questions/353817/should-every-class-have-a-virtual-destructor> *
<http://stackoverflow.com/questions/461203/when-to-use-virtual-destructors> *
www.gotw.ca/publications/mill18.htm

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