



Strings

What is a string ?

- a typedef for `basic_string<char>`
- The `basic_string` class represents a Sequence of characters.
- It contains:
 - all the usual operations of a Sequence.
 - standard string operations such as search and concatenation.

Rope: non standard!

- Scalable string implementation.
- Efficient operation that involve the string as a whole.
- A rope is a reasonable representation for very long strings such as edit buffers or mail messages.

Rope: non standard!

```
#include <ext/rope>
#include <iostream>
using namespace std;
```

```
int main() {
    __gnu_cxx::crope r("this should be longer!");
    cout << r << endl;
}
```

How to convert something to a string?

- c++11: to_string for primitives
- Using std::ostringstream
- We can encapsulate the string conversion and format into stringify functions – **stringify**
example

More?

- Lots of other features, especially in c++11 (threads,...)
- Other libraries:
 - Boost
 - opencv, dlib, armadillo, zlib, ...