Strings

Victor Eijkhout and Charlie Dey

spring 2017



String declaration

```
#include <string>
using namespace std;
// .. and now you can use 'string'
```



String creation

A string variable contains a string of characters.

```
string txt;
```

You can initialize the string variable, or assign it dynamically:

```
string txt{"this is text"};
string moretxt("this is also text");
txt = "and now it is another text";
```



Concatenation

Strings can be concatenated:

```
txt = txt1+txt2;
txt += txt3;
```



String is like vector

You can query the size:
int txtlen = txt.size();
or use subscripts:
cout << "The second character is <<" << txt[1] << ">> " << endl;</pre>



More vector methods

Other methods for the vector class apply: insert, empty, erase, push_back, et cetera.

http://en.cppreference.com/w/cpp/string/basic_string



Exercise 1

Write a function to print out the digits of a number: 156 should print one five six. Use a vector of strings.

Hint: it is easiest to generate the digits last-to-first. Then figure out how to print them reversed.

