Lamda Functions

```
auto func = [] () {
cout << "I'm a Lamda function";
};</pre>
```

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Lamda Functions

- Quick and easy way to write functions:)
- Compiler deduces the type, rather than expecting you to specify what kind of return type it is.

Finding an address

```
AddressBook global address book;
vector<string> findAddressesFromOrgs ()
  return global address book.findMatchingAddresses(
    // we're declaring a lambda here; the [] signals the start
     [] (const string& addr) { return addr.find( ".org" ) != string::npos; }
```

Variable Capture with Lambdas

```
// read in the name from a user, which we want to search
string name;
cin>> name;
return global address book.findMatchingAddresses(
  // notice that the lambda function uses the the variable
'name'
  [&] (const string& addr) {
return addr.find( name ) != string::npos; }
```

Lamda and STL

```
std::vector<int> v;
v.push back(1);
v.push back(2);
//...
for ( auto itr = v.begin(), end = v.end(); itr != end; itr++ )
  std::cout << *itr;
```

Lamda and STL (cont...)

References

 http://www.cprogramming.com/c++11/c++11lambda-closures.html