

## STL Negator Adapters

- A negator can be used to store the opposite result of a functor
  - `not1 (op)` negates the result of unary 'op'
  - `not2 (op)` negates result of binary 'op'
  - `not_fn (op)` negates result of unary or binary 'op'

```
template<typename _Predicate>
unary_negate<_Predicate>
not1(const _Predicate& __pred) {
    return unary_negate
        <_Predicate>(__pred);
}
```

## STL Negator Function Adapter Examples

```
int main() {
    vector<int> vector1{1, 2, 3, 4};
    vector<int> vector2;

    remove_copy_if(vector1.begin(), vector1.end(),
                   back_inserter(vector2),
                   not1(is_odd<int>()));

    print_results(vector2);

    deque<int> deque1;
    remove_copy_if(vector1.begin(), vector1.end(),
                   back_inserter(deque1),
                   not_fn(is_odd<int>()));

    print_results(deque1);
    ...
}
```

See [github.com/douglasraigschmidt/CPlusPlus/tree/master/STL/S-09/9.3](https://github.com/douglasraigschmidt/CPlusPlus/tree/master/STL/S-09/9.3)