



Implicit mutex locking

65

```
class person(mutex)
{
public:
    person() = default;

    std::string get_first_name() const
    {
        return first_name;
    }

    void set_first_name (std::string_view new_first)
    {
        first_name = new_first;
    }

    // Repeat for last_name

private:
    std::string first_name, last_name;
};
```

```
class person
{
public:
    person() = default;

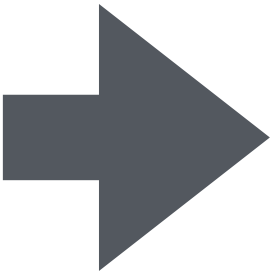
    std::string get_first_name() const
    {
        std::scoped_lock _ (mutex);
        return person_.get_first_name();
    }

    void set_first_name (std::string_view new_first)
    {
        std::scoped_lock _ (mutex);
        person_.set_first_name (new_first);
    }

    // Repeat for last_name

private:
    class __person;
    std::mutex mutex;
    mutable __person person_;
};

template<>
struct is_sync<person> : std::true_type {};
```











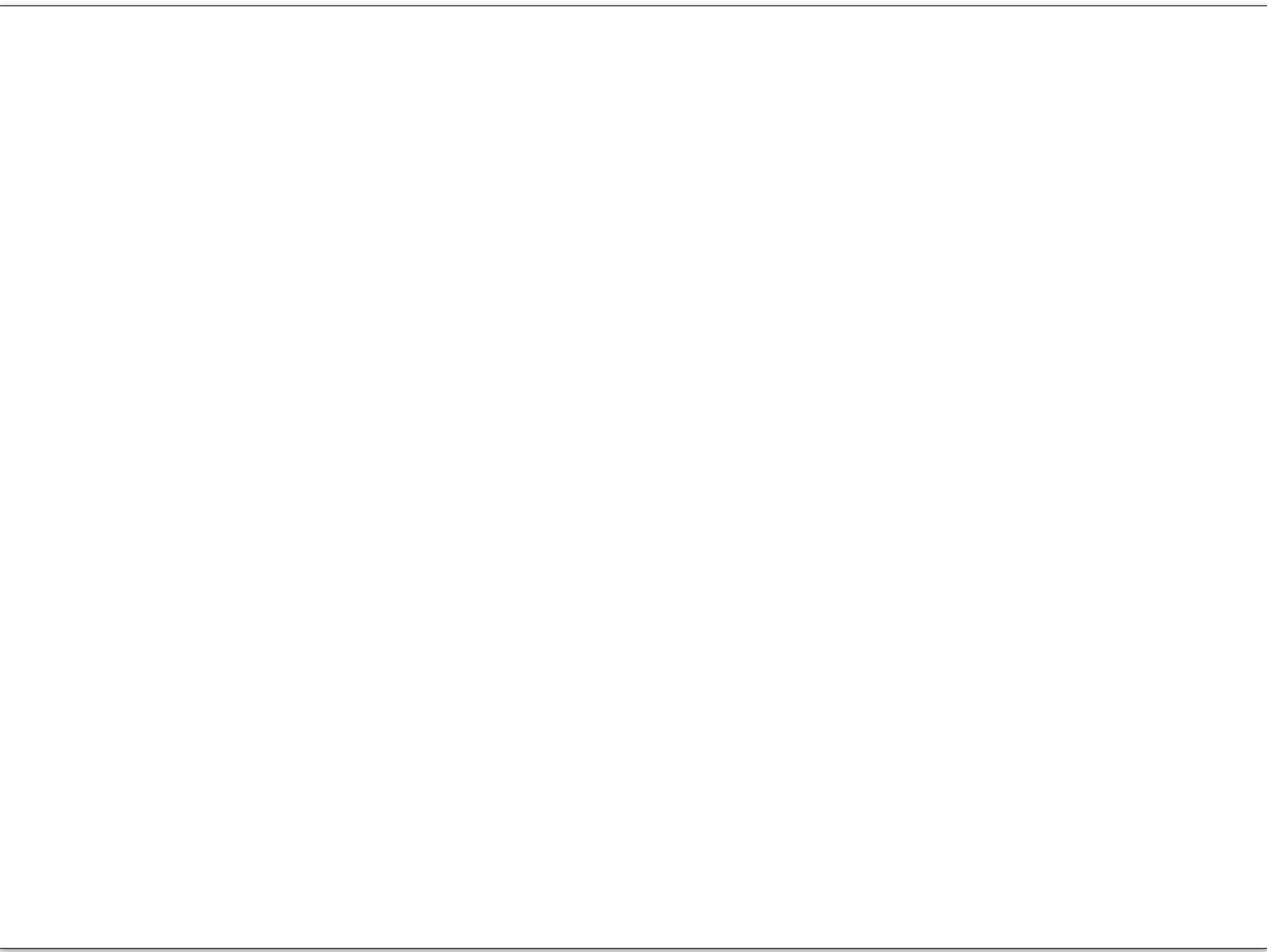
mutex

Implicit

locking

shared_mute_x





person(mutex

std::string

first name



set first name

first name,

(std::string_view

get_first_name()

new friends!

last name



new_firrst)

last _ name:

first name:

public:  



private:  

void



person()

cons +











class

default:

f

o

r

neturun

Repeat





person(shared_mutex

std::scoped_lock

start: new text

person._set_first_name

std::true_type

get_first_name()

(mutex):

set first name

person()

std::string

is synonymous

default:

template >

last name

new_firts_t)

person._.get_first_name();

(std::string_view

person:

(new first):

Person's name:

void



mutex;

stnucst

private: 


cons +



neturun

class



per son

multable





f

o

r



public











Repeat

Personson

class



std::shared_mutex

std::shared_lock

std::unique_lock

locking





mutex;

