Wrapping with Reflection

- **Thread-safe wrappers**
  - `synchronized_value`
  - `std::mutex/shared_mutex/spin_lock`
  - `crill::seqlock_object`
- **Value wrappers around shared objects**
  - Automatic reference counting (arc)
  - Copy-on-write objects (cow)
- **Async classes**

62

- P2996 - Reflection for C++26
  Accepted ✅

    - P3294 - Code Injection with Token Sequences
      Hopeful for C++26 ➡️ SOON

    - P3096 - Function Parameter Reflection in Reflection for C++26
      Proposed C++29 🙏

    - P3394 - Annotations for Reflection
      Proposed C++29 🙏

    - P0707 - Metaclasses
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C++29 

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Wrapping with Reflection

Implicit `synchronized_value`

- synchronized_value

- std::mutex/shared_mutex/spin_lock

- Copy-on-write objects (cow)

- **Async classes**

- Automatic reference counting (arc)

- crill::seqlock_object

- **Thread-safe wrappers**

- **Value wrappers around shared objects**

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Accepted 

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Hopeful for C++26 

C++29 

Proposed C++29 

Accepted C++26 

Accepted C++26 

```
person() = default;
```

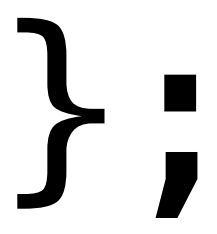
```
std::string get_first_name() const
```

```
class(synchronized) person
```

private:

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

```
void set_first_name (std::string_view new_first)
```



```
first_name = new_first;
```

```
// Repeat for last_name
```

public:

```
return first_name;
```

63