

Wishful Thinking

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Let's talk about names

A simple struct

```
struct sample  
{  
    int id;  
};
```

Let's talk about names

A template struct

```
template<typename T>
struct sample
{
    T id;
};

using my_sample = sample<int>;
```

Let's talk about names

Name Literal (wishful thinking)

```
template<typename T, name X>
struct sample
{
    T X;
};

using my_sample = sample<int, 'id'>;
```

A tuple with named members

```
template<typename... T>
struct named_tuple
{
    T::member_type T::member_name...;
};
```

Take a look at sqlpp11 for real world use cases.

Let's talk about CRTP

CRTP

```
template<typename Derived>
struct base
{
    static_assert(Derived::value, "oops");

    decltype(auto) get() const
    { return static_cast<const Derived&>(*this); }
};

struct composite: public base<composite>
{
    static constexpr bool value = true;
};
```

Let's talk about mixins

Mixins (wishful thinking again)

```
mixin base
{
    static_assert(value, "oops");

    decltype(auto) get() const
    { return *this; }
};

struct composite
{
    static constexpr bool value = true;

    using mixin base;
};
```


If you like this, get in touch!

Thank you very much!