



**Class Arg**

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Class Documentation

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- Defined in [File arg.hpp](#)

## Class Documentation

class Arg

Class for holding the argument information.

Public Functions

inline explicit Arg(const std::string &name)

Construct a new [Arg](#) object.

Parameters

**name** – The name of the argument.

~Arg() = default

template<typename ArgT>

inline Arg(const std::string &name, const [ArgT](#) &value)

Construct a new [Arg](#) object.

Parameters

- **name** – The name of the argument.
- **value** – The value of the argument.

template<typename ArgT>

inline Arg(const std::string &name, [ArgT](#) &&value)

Construct a new [Arg](#) object.

Parameters

- **name** – The name of the argument.
- **value** – The value of the argument.

```
template<typename ArgT, typename = std::enable_if_t<!std::is_same_v<Arg,  
std::decay_t<ArgT>>>>  
inline Arg &operator=(const ArgT &value)
```

Define the assignment operator.

Template Parameters

**ArgT** – The type of the argument.

Parameters

**value** – The value of the argument.

Returns

The reference to the argument.

```
template<typename ArgT, typename = std::enable_if_t<!std::is_same_v<Arg,  
std::decay_t<ArgT>>>>  
inline Arg &&operator=(ArgT &&value)
```

Define the assignment operator.

Template Parameters

**ArgT** – The type of the argument.

Parameters

**value** – The value of the argument.

Returns

The reference to the argument.

```
inline const std::string &name() const
```

Get the name of the argument.

Returns

The name of the argument.

```
inline const ArgType &arg_type() const
```

Get the type of the argument.

Returns

The type of the argument.

```
inline bool has_value() const
```

Check whether the argument contains a value.

Returns

true if the argument contains a value.

```
inline std::any &value()
```

Get the value of the argument.

Returns

The reference to the value of the argument.

```
YAML::Node to_yaml_node() const
```

Get a YAML representation of the argument.

Returns

YAML node including the name, type, and value of the argument.

```
YAML::Node value_to_yaml_node() const
```

Get a YAML representation of the argument value.

@ return YAML node including the value of the argument.

```
std::string description() const
```

Get a description of the argument.

to\_yaml\_node()

Returns

YAML string.

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