



**Class ArgType**

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Class Documentation

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

## Class Documentation

class ArgType

Struct for the type information of an argument.

Public Functions

ArgType() = default

inline ArgType([ArgElementType](#) element\_type, [ArgContainerType](#) container\_type, int32\_t dimension = 0)

Construct a new [ArgType](#) object.

Parameters

- **element\_type** – The element type of the argument.
- **container\_type** – The container type of the argument.
- **dimension** – The dimension of the argument.

inline [ArgElementType](#) element\_type() const

Get the element type of the argument.

Returns

The element type of the argument.

inline [ArgContainerType](#) container\_type() const

Get the container type of the argument.

Returns

The container type of the argument.

`inline int32_t dimension() const`

Get the dimension of the argument.

Returns

The dimension of the argument.

`std::string to_string() const`

Get a string representation of the argument type.

Returns

String representation of the argument type.

## Public Static Functions

`static inline ArgElementType get_element_type(std::type_index index)`

Get the element type of the argument.

Parameters

**index** – The type index of the argument.

Returns

The element type of the argument.

`template<typename typeT>  
static inline ArgType create()`

Create the argument type from the given type.

Template Parameters

**typeT** – The type of the argument.

Returns

The argument type.

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