



Class Condition

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Inheritance Relationships

Base Type

- `public holoscan::Component` ([Class Component](#))

Derived Type

- `public holoscan::gfx::GXFCondition` ([Class GXFCondition](#))

Class Documentation

```
class Condition : public holoscan::Component
```

Base class for all conditions.

A condition is a predicate that can be evaluated at runtime to determine if an operator should execute. This matches the semantics of GXF's Scheduling Term.

Subclassed by [holoscan::gfx::GXFCondition](#)

Public Functions

`Condition()` = default

`Condition(Condition&&)` = default

```
template<typename ArgT, typename ...ArgsT, typename =
std::enable_if_t<!std::is_base_of_v<::holoscan::Condition, std::decay_t<ArgT>>> &&
(std::is_same_v<::holoscan::Arg, std::decay_t<ArgT>> || std::is_same_v<::holoscan::ArgList,
std::decay_t<ArgT>>>>
```

```
inline explicit Condition(ArgT &&arg, ArgsT&&... args)
```

Construct a new [Condition](#) object.

`~Condition()` override = default

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

Set the name of the condition.

Parameters

name – The name of the condition.

Returns

The reference to the condition.

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

Set the name of the condition.

Parameters

name – The name of the condition.

Returns

The reference to the condition.

```
inline Condition &fragment(Fragment *fragment)
```

Set the fragment of the condition.

Parameters

fragment – The pointer to the fragment of the condition.

Returns

The reference to the condition.

```
inline Condition &spec(const std::shared_ptr<ComponentSpec> &spec)
```

Set the component specification to the condition.

Parameters

spec – The component specification.

Returns

The reference to the condition.

```
inline ComponentSpec *spec()
```

Get the component specification of the condition.

Returns

The pointer to the component specification.

```
inline std::shared_ptr<ComponentSpec> spec_shared()
```

Get the shared pointer to the component spec.

Returns

The shared pointer to the component spec.

```
inline virtual void setup(ComponentSpec &spec)
```

Define the condition specification.

Parameters

spec – The reference to the component specification.

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

Get a YAML representation of the condition.

Returns

YAML node including spec of the condition in addition to the base component properties.

Protected Attributes

```
bool is_initialized_ = false
```

Whether the condition is initialized.

Friends

friend class holoscan::Operator

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