



Class GXFOutputContext

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

Inheritance Relationships

Base Type

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

Class Documentation

```
class GXFOutputContext : public holoscan::OutputContext
```

Class to hold the output context for a GXF [Operator](#).

This class provides the interface to send data to the output ports of the operator using GXF.

Public Functions

```
GXFOutputContext(ExecutionContext *execution_context, Operator *op)
```

Construct a new [GXFOutputContext](#) object.

Parameters

- **execution_context** – The pointer to the execution context.
- **op** – The pointer to the GXFOperator object.

```
GXFOutputContext(ExecutionContext *execution_context, Operator *op,  
std::unordered_map<std::string, std::shared_ptr<IOSpec>> &outputs)
```

Construct a new [GXFOutputContext](#) object.

Parameters

- **execution_context** – The pointer to the execution context.
- **op** – The pointer to the GXFOperator object.

- **outputs** – outputs The references to the map of the output specs.

`gxf_context_t gxf_context() const`

Get pointer to the GXF execution runtime.

Returns

The pointer to the GXF context.

Protected Functions

`virtual void emit_impl(std::any data, const char *name = nullptr, OutputType out_type = OutputType::kSharedPointer) override`

The implementation of the `emit` method.

Depending on the type of the data, this method wraps the data with a message and sends it to the output port with the given name.

Parameters

- **data** – The data to send.
- **name** – The name of the output port.
- **out_type** – The type of the message data.

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