



## **Class GXFComponent**

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- Defined in [File gxf\\_component.hpp](#)

## Inheritance Relationships

### Derived Types

- `public holoscan::gxf::GXFCondition` ([Class GXFCondition](#))
- `public holoscan::gxf::GXFNetworkContext` ([Class GXFNetworkContext](#))
- `public holoscan::gxf::GXFResource` ([Class GXFResource](#))
- `public holoscan::gxf::GXFScheduler` ([Class GXFScheduler](#))

## Class Documentation

class GXFComponent

Subclassed by [holoscan::gxf::GXFCondition](#), [holoscan::gxf::GXFNetworkContext](#), [holoscan::gxf::GXFResource](#), [holoscan::gxf::GXFScheduler](#)

Public Functions

GXFComponent() = default

virtual ~GXFComponent() = default

inline virtual const char \*gxf\_typename() const

inline void gxf\_context(gxf\_context\_t gxf\_context)

inline gxf\_context\_t gxf\_context() const

inline void gxf\_eid(gxf\_uid\_t gxf\_eid)

inline gxf\_uid\_t gxf\_eid() const

inline void gxf\_tid(gxf\_tid\_t gxf\_tid)

inline gxf\_tid\_t gxf\_tid() const

```

inline void gxf_cid(gxf_uid_t gxf_cid)

inline gxf_uid_t gxf_cid() const

inline std::string &gxf_cname()

inline void gxf_cname(const std::string &name)

inline std::shared_ptr<nvidia::gxf::GraphEntity> gxf_graph_entity()

inline void gxf_graph_entity(std::shared_ptr<nvidia::gxf::GraphEntity> graph_entity)

inline void *gxf_cptr()

inline nvidia::gxf::Handle<nvidia::gxf::Component> gxf_component()

void gxf_initialize()

void set_gxf_parameter(const std::string &component_name, const std::string &key,
ParameterWrapper &param_wrap)

```

Set a given parameter on the underlying GXF component.

```

inline void reset_gxf_graph_entity()

```

#### Protected Attributes

```

gxf_context_t gxf_context_ = nullptr

gxf_uid_t gxf_eid_ = 0

gxf_tid_t gxf_tid_ = {}

gxf_uid_t gxf_cid_ = 0

std::shared_ptr<nvidia::gxf::GraphEntity> gxf_graph_entity_

std::string gxf_cname_

nvidia::gxf::Handle<nvidia::gxf::Component> gxf_component_

void *gxf_cptr_ = nullptr

```

