

band

v1.0.0-dev

Generated by Doxygen 1.8.13



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# Chapter 1

## README

### TODO:

- add a step to the Makefile that makes the PDF and deletes the rest
- look over the PDF and make sure no extra things are included
- document things that are missing documentation

`band` is a c++ media-library.

### Dependencies

- `libtool`: Combining static libraries when building.
- `doxygen`: Documentation generation.

### Building

- `make` in the 'band' directory builds `band` into a static-library.
- `make` in the 'example' directory builds all the examples.

### Running

- `cmd/file-to-code/file-to-code` runs a tool which generates a header and source file from a normal file.
- `example/bin/simple` runs the simple-example.

### Linking

- Provide the path to the compiled 'band'-directory as an include-path and the compiled static-library as a linked-library. Additionally, `dl`, `X11`, and `pthread` should be linked. These aren't a dependency for all platforms so they are left to the consumer to link. An example can be seen in the 'Makefile' in the 'example' folder.

### Feature-Requests

- Create a issue with the label 'enhancement'. It will be groomed then sorted into a release to be worked on.

### Contributing

- Any task or feature-request can be worked on before being groomed on its own branch. If the feature is desired, it will be merged until a release.



## Chapter 2

# Namespace Index

### 2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

<a href="#">band</a>	11
<a href="#">band::asset</a>	14
<a href="#">band::asset::font</a>	14
<a href="#">band::interface</a>	15



## Chapter 3

# Hierarchical Index

### 3.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

band::Area . . . . .	17
band::Circle . . . . .	18
band::Color . . . . .	19
band::Dimension . . . . .	20
band::File . . . . .	20
band::Interface . . . . .	21
band::interface::RaylibInterface . . . . .	31
band::Line . . . . .	29
band::Point . . . . .	30
band::Rectangle . . . . .	39
band::Triangle . . . . .	40
band::WindowArea . . . . .	41



## Chapter 4

# Class Index

### 4.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

<a href="#">band::Area</a>	17
<a href="#">band::Circle</a>	18
<a href="#">band::Color</a>	19
<a href="#">band::Dimension</a>	20
<a href="#">band::File</a>	20
<a href="#">band::Interface</a>	21
<a href="#">band::Line</a>	29
<a href="#">band::Point</a>	30
<a href="#">band::interface::RaylibInterface</a>	31
<a href="#">band::Rectangle</a>	39
<a href="#">band::Triangle</a>	40
<a href="#">band::WindowArea</a>	41





## Chapter 5

# File Index

### 5.1 File List

Here is a list of all files with brief descriptions:

band/ <a href="#">all.h</a> . . . . .	43
band/ <a href="#">interface.d</a> . . . . .	44
band/ <a href="#">interface.h</a> . . . . .	44
band/asset/font/ <a href="#">helvetica.font.d</a> . . . . .	43
band/asset/font/ <a href="#">helvetica.font.h</a> . . . . .	43
band/interface/ <a href="#">raylib_interface.d</a> . . . . .	46
band/interface/ <a href="#">raylib_interface.h</a> . . . . .	46



## Chapter 6

# Namespace Documentation

### 6.1 band Namespace Reference

#### Namespaces

- [asset](#)
- [interface](#)

#### Classes

- struct [Area](#)
- struct [Circle](#)
- struct [Color](#)
- struct [Dimension](#)
- struct [File](#)
- class [Interface](#)
- struct [Line](#)
- struct [Point](#)
- struct [Rectangle](#)
- struct [Triangle](#)
- struct [WindowArea](#)

#### Typedefs

- using [Text](#) = std::string
- using [Size](#) = uint32\_t
- using [TextureId](#) = size\_t
- using [ImageId](#) = size\_t
- using [FontId](#) = size\_t
- using [Real](#) = double
- using [Component](#) = uint8\_t

#### Enumerations

- enum [Unit](#) { [Unit::kPixel](#), [Unit::kRatio](#) }
- enum [Action](#) { [Action::kLeftClick](#), [Action::kRightClick](#), [Action::kClose](#), [Action::kBackspace](#) }
- enum [Leg](#) { [Leg::kWidth](#), [Leg::kHeight](#) }

## Functions

- [Dimension AddDimensions](#) (const [Dimension](#) &a, const [Dimension](#) &b, [Real](#) pixels)
- [Dimension SubtractDimensions](#) (const [Dimension](#) &a, const [Dimension](#) &b, [Real](#) pixels)
- [Dimension MultiplyDimensions](#) (const [Dimension](#) &a, [Real](#) scalar)
- `std::unique_ptr< Interface > DefaultInterface ()`

### 6.1.1 Typedef Documentation

#### 6.1.1.1 Component

```
using band::Component = typedef uint8_t
```

#### 6.1.1.2 FontId

```
using band::FontId = typedef size_t
```

#### 6.1.1.3 ImageId

```
using band::ImageId = typedef size_t
```

#### 6.1.1.4 Real

```
using band::Real = typedef double
```

#### 6.1.1.5 Size

```
using band::Size = typedef uint32_t
```

#### 6.1.1.6 Text

```
using band::Text = typedef std::string
```

#### 6.1.1.7 TextureId

```
using band::TextureId = typedef size_t
```

### 6.1.2 Enumeration Type Documentation

#### 6.1.2.1 Action

```
enum band::Action [strong]
```

##### Enumerator

kLeftClick	
kRightClick	
kClose	
kBackspace	

#### 6.1.2.2 Leg

```
enum band::Leg [strong]
```

##### Enumerator

kWidth	
kHeight	

#### 6.1.2.3 Unit

```
enum band::Unit [strong]
```

##### Enumerator

kPixel	
kRatio	

### 6.1.3 Function Documentation

#### 6.1.3.1 AddDimensions()

```
Dimension band::AddDimensions (
    const Dimension & a,
    const Dimension & b,
    Real pixels )
```

#### 6.1.3.2 DefaultInterface()

```
std::unique_ptr<Interface> band::DefaultInterface ( )
```

#### 6.1.3.3 MultiplyDimensions()

```
Dimension band::MultiplyDimensions (
    const Dimension & a,
    Real scalar )
```

#### 6.1.3.4 SubtractDimensions()

```
Dimension band::SubtractDimensions (
    const Dimension & a,
    const Dimension & b,
    Real pixels )
```

## 6.2 band::asset Namespace Reference

### Namespaces

- [font](#)

## 6.3 band::asset::font Namespace Reference

### Functions

- [band::File Helvetica \(\)](#)

#### 6.3.1 Function Documentation

#### 6.3.1.1 Helvetica()

```
band::File band::asset::font::Helvetica ( )
```

## 6.4 band::interface Namespace Reference

### Classes

- class [RaylibInterface](#)





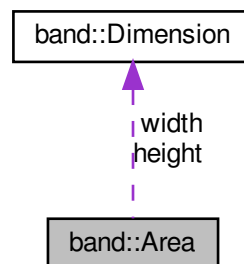
## Chapter 7

# Class Documentation

### 7.1 band::Area Struct Reference

```
#include <interface.h>
```

Collaboration diagram for band::Area:



#### Public Attributes

- [Dimension width](#)
- [Dimension height](#)

#### 7.1.1 Member Data Documentation

##### 7.1.1.1 height

[Dimension](#) `band::Area::height`

### 7.1.1.2 width

`Dimension band::Area::width`

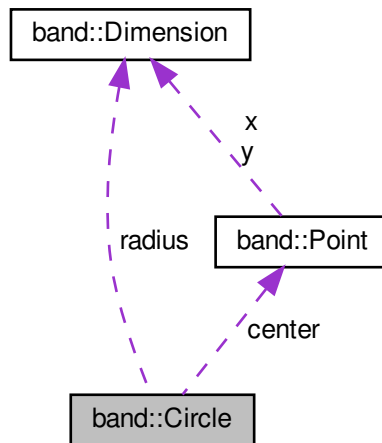
The documentation for this struct was generated from the following file:

- [band/interface.h](#)

## 7.2 band::Circle Struct Reference

```
#include <interface.h>
```

Collaboration diagram for band::Circle:



### Public Attributes

- [Point center](#)
- [Dimension radius](#)

### 7.2.1 Member Data Documentation

#### 7.2.1.1 center

`Point band::Circle::center`

#### 7.2.1.2 radius

[Dimension](#) band::Circle::radius

The documentation for this struct was generated from the following file:

- band/[interface.h](#)

## 7.3 band::Color Struct Reference

```
#include <interface.h>
```

### Public Attributes

- [Component](#) r
- [Component](#) g
- [Component](#) b
- [Component](#) a

### 7.3.1 Member Data Documentation

#### 7.3.1.1 a

[Component](#) band::Color::a

#### 7.3.1.2 b

[Component](#) band::Color::b

#### 7.3.1.3 g

[Component](#) band::Color::g

#### 7.3.1.4 r

`Component band::Color::r`

The documentation for this struct was generated from the following file:

- [band/interface.h](#)

## 7.4 band::Dimension Struct Reference

```
#include <interface.h>
```

### Public Attributes

- [Real scalar](#)
- [Unit unit](#)

### 7.4.1 Member Data Documentation

#### 7.4.1.1 scalar

`Real band::Dimension::scalar`

#### 7.4.1.2 unit

`Unit band::Dimension::unit`

The documentation for this struct was generated from the following file:

- [band/interface.h](#)

## 7.5 band::File Struct Reference

```
#include <interface.h>
```

### Public Attributes

- `const uint8_t * bytes`
- `const size_t n`

## 7.5.1 Member Data Documentation

### 7.5.1.1 bytes

```
const uint8_t* band::File::bytes
```

### 7.5.1.2 n

```
const size_t band::File::n
```

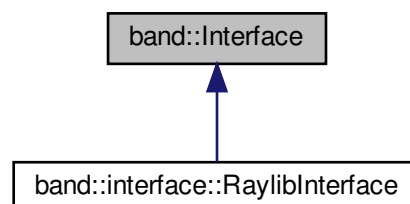
The documentation for this struct was generated from the following file:

- [band/interface.h](#)

## 7.6 band::Interface Class Reference

```
#include <interface.h>
```

Inheritance diagram for band::Interface:



## Public Member Functions

- virtual [~Interface](#) ()=default
- virtual void [SetTargetFps](#) ([Size](#) fps)=0
- virtual void [SetWindowArea](#) (const [::band::WindowArea](#) &area)=0
- virtual void [SetIcon](#) ([ImageId](#) id)=0
- virtual void [SetTitle](#) (const [Text](#) &text)=0
- virtual void [ToggleFullscreen](#) ()=0
- virtual void [StartDrawing](#) ()=0
- virtual void [StopDrawing](#) ()=0
- virtual [ImageId](#) [LoadImage](#) (const [File](#) &file)=0
- virtual void [DeleteImage](#) ([ImageId](#) id)=0
- virtual void [DeleteAllImages](#) ()=0
- virtual [FontId](#) [LoadFont](#) (const [File](#) &file)=0
- virtual void [DeleteFont](#) ([FontId](#) id)=0
- virtual void [DeleteAllFonts](#) ()=0
- virtual [TextureId](#) [CreateBlankTexture](#) (const [Area](#) &area)=0
- virtual [TextureId](#) [CreateImageTexture](#) ([ImageId](#) id, const [Area](#) &area)=0
- virtual void [DeleteTexture](#) ([TextureId](#) id)=0
- virtual void [DeleteAllTextures](#) ()=0
- virtual void [SelectTexture](#) ([TextureId](#) id)=0
- virtual void [UnselectTexture](#) ()=0
- virtual void [DrawTexture](#) ([TextureId](#) id, const [Point](#) &position)=0
- virtual void [Clear](#) (const [Color](#) &color)=0
- virtual void [DrawLine](#) (const [Line](#) &line, const [Dimension](#) &thickness, const [Leg](#) &leg, const [Color](#) &color)=0
- virtual void [DrawCircle](#) (const [Circle](#) &circle, const [Leg](#) &leg, const [Color](#) &color)=0
- virtual void [DrawRectangle](#) (const [Rectangle](#) &rectangle, const [Color](#) &color)=0
- virtual void [DrawTriangle](#) (const [Triangle](#) &triangle, const [Color](#) &color)=0
- virtual void [DrawText](#) (const [Text](#) &text, const [Point](#) &position, const [Dimension](#) &dimension, const [Color](#) &color, [FontId](#) id)=0
- virtual void [DrawFps](#) (const [Point](#) &position)=0
- virtual [Area](#) [MeasureText](#) (const [Text](#) &text, const [Dimension](#) &dimension, [FontId](#) id) const =0
- virtual bool [HasAction](#) (const [Action](#) &action) const =0
- virtual std::optional< char > [CharacterPressed](#) () const =0
- virtual [Point](#) [MousePosition](#) () const =0
- virtual [::band::WindowArea](#) [WindowArea](#) () const =0

## 7.6.1 Constructor & Destructor Documentation

### 7.6.1.1 ~Interface()

```
virtual band::Interface::~~Interface ( ) [virtual], [default]
```

## 7.6.2 Member Function Documentation

#### 7.6.2.1 CharacterPressed()

```
virtual std::optional<char> band::Interface::CharacterPressed ( ) const [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.2 Clear()

```
virtual void band::Interface::Clear (
    const Color & color ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.3 CreateBlankTexture()

```
virtual TextureId band::Interface::CreateBlankTexture (
    const Area & area ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.4 CreateImageTexture()

```
virtual TextureId band::Interface::CreateImageTexture (
    ImageId id,
    const Area & area ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.5 DeleteAllFonts()

```
virtual void band::Interface::DeleteAllFonts ( ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.6 DeleteAllImages()

```
virtual void band::Interface::DeleteAllImages ( ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.7 DeleteAllTextures()

```
virtual void band::Interface::DeleteAllTextures ( ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.8 DeleteFont()

```
virtual void band::Interface::DeleteFont (
    FontId id ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.9 DeleteImage()

```
virtual void band::Interface::DeleteImage (
    ImageId id ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.10 DeleteTexture()

```
virtual void band::Interface::DeleteTexture (
    TextureId id ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.11 DrawCircle()

```
virtual void band::Interface::DrawCircle (
    const Circle & circle,
    const Leg & leg,
    const Color & color ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).



#### 7.6.2.12 DrawFps()

```
virtual void band::Interface::DrawFps (
    const Point & position ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.13 DrawLine()

```
virtual void band::Interface::DrawLine (
    const Line & line,
    const Dimension & thickness,
    const Leg & leg,
    const Color & color ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.14 DrawRectangle()

```
virtual void band::Interface::DrawRectangle (
    const Rectangle & rectangle,
    const Color & color ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.15 DrawText()

```
virtual void band::Interface::DrawText (
    const Text & text,
    const Point & position,
    const Dimension & dimension,
    const Color & color,
    FontId id ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.16 DrawTexture()

```
virtual void band::Interface::DrawTexture (
    TextureId id,
    const Point & position ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.17 DrawTriangle()

```
virtual void band::Interface::DrawTriangle (
    const Triangle & triangle,
    const Color & color ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.18 HasAction()

```
virtual bool band::Interface::HasAction (
    const Action & action ) const [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.19 LoadFont()

```
virtual FontId band::Interface::LoadFont (
    const File & file ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.20 LoadImage()

```
virtual ImageId band::Interface::LoadImage (
    const File & file ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.21 MeasureText()

```
virtual Area band::Interface::MeasureText (
    const Text & text,
    const Dimension & dimension,
    FontId id ) const [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.22 MousePosition()

```
virtual Point band::Interface::MousePosition ( ) const [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.23 SelectTexture()

```
virtual void band::Interface::SelectTexture (
    TextureId id ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.24 SetIcon()

```
virtual void band::Interface::SetIcon (
    ImageId id ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.25 SetTargetFps()

```
virtual void band::Interface::SetTargetFps (
    Size fps ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.26 SetTitle()

```
virtual void band::Interface::SetTitle (
    const Text & text ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.27 SetWindowArea()

```
virtual void band::Interface::SetWindowArea (
    const ::band::WindowArea & area ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.28 StartDrawing()

```
virtual void band::Interface::StartDrawing ( ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.29 StopDrawing()

```
virtual void band::Interface::StopDrawing ( ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.30 ToggleFullscreen()

```
virtual void band::Interface::ToggleFullscreen ( ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.31 UnselectTexture()

```
virtual void band::Interface::UnselectTexture ( ) [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

#### 7.6.2.32 WindowArea()

```
virtual ::band::WindowArea band::Interface::WindowArea ( ) const [pure virtual]
```

Implemented in [band::interface::RaylibInterface](#).

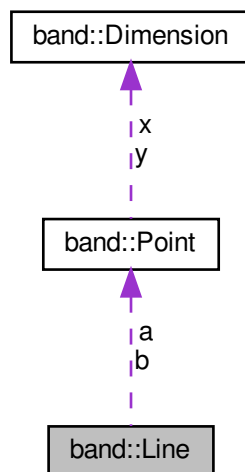
The documentation for this class was generated from the following file:

- [band/interface.h](#)

## 7.7 band::Line Struct Reference

```
#include <interface.h>
```

Collaboration diagram for band::Line:



### Public Attributes

- [Point a](#)
- [Point b](#)

### 7.7.1 Member Data Documentation

#### 7.7.1.1 a

`Point` `band::Line::a`

#### 7.7.1.2 b

`Point` `band::Line::b`

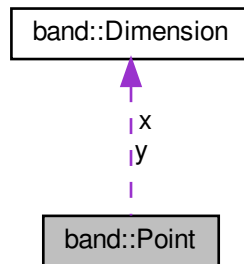
The documentation for this struct was generated from the following file:

- `band/`[interface.h](#)

## 7.8 band::Point Struct Reference

```
#include <interface.h>
```

Collaboration diagram for band::Point:



### Public Attributes

- [Dimension x](#)
- [Dimension y](#)

### 7.8.1 Member Data Documentation

#### 7.8.1.1 x

[Dimension](#) band::Point::x

#### 7.8.1.2 y

[Dimension](#) band::Point::y

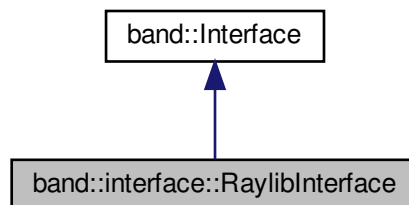
The documentation for this struct was generated from the following file:

- band/[interface.h](#)

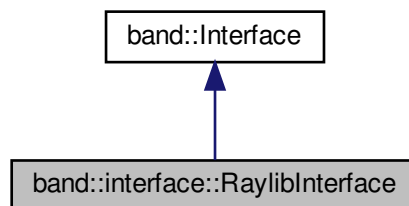
## 7.9 band::interface::RaylibInterface Class Reference

```
#include <raylib_interface.h>
```

Inheritance diagram for band::interface::RaylibInterface:



Collaboration diagram for band::interface::RaylibInterface:



### Public Member Functions

- [RaylibInterface](#) ()
- [~RaylibInterface](#) () override
- [RaylibInterface](#) (const [RaylibInterface](#) &)=delete
- [RaylibInterface](#) & [operator=](#) (const [RaylibInterface](#) &)=delete
- [RaylibInterface](#) (const [RaylibInterface](#) &&)=delete
- [RaylibInterface](#) & [operator=](#) (const [RaylibInterface](#) &&)=delete
- void [Open](#) ()
- void [Close](#) ()
- void [SetTargetFps](#) ([Size](#) fps) override
- void [SetWindowArea](#) (const ::[band::WindowArea](#) &area) override
- void [SetIcon](#) ([Imageld](#) id) override
- void [SetTitle](#) (const [Text](#) &text) override
- void [ToggleFullscreen](#) () override
- void [StartDrawing](#) () override

- void [StopDrawing](#) () override
- [ImageId LoadImage](#) (const [File](#) &) override
- void [DeleteImage](#) ([ImageId](#) id) override
- void [DeleteAllImages](#) () override
- [FontId LoadFont](#) (const [File](#) &) override
- void [DeleteFont](#) ([FontId](#) id) override
- void [DeleteAllFonts](#) () override
- [TextureId CreateBlankTexture](#) (const [Area](#) &area) override
- [TextureId CreateImageTexture](#) ([ImageId](#) id, const [Area](#) &area) override
- void [DeleteTexture](#) ([TextureId](#) id) override
- void [DeleteAllTextures](#) () override
- void [SelectTexture](#) ([TextureId](#) id) override
- void [UnselectTexture](#) () override
- void [DrawTexture](#) ([TextureId](#) id, const [Point](#) &position) override
- void [Clear](#) (const [Color](#) &color) override
- void [DrawLine](#) (const [Line](#) &line, const [Dimension](#) &thickness, const [Leg](#) &leg, const [Color](#) &color) override
- void [DrawCircle](#) (const [Circle](#) &circle, const [Leg](#) &leg, const [Color](#) &color) override
- void [DrawRectangle](#) (const [Rectangle](#) &rectangle, const [Color](#) &color) override
- void [DrawTriangle](#) (const [Triangle](#) &triangle, const [Color](#) &color) override
- void [DrawText](#) (const [Text](#) &text, const [Point](#) &position, const [Dimension](#) &dimension, const [Color](#) &color, [FontId](#) id) override
- void [DrawFps](#) (const [Point](#) &position) override
- [Area MeasureText](#) (const [Text](#) &text, const [Dimension](#) &dimension, [FontId](#) id) const override
- bool [HasAction](#) (const [Action](#) &action) const override
- std::optional< char > [CharacterPressed](#) () const override
- [Point MousePosition](#) () const override
- [::band::WindowArea WindowArea](#) () const override

## 7.9.1 Constructor & Destructor Documentation

### 7.9.1.1 [RaylibInterface](#)() [1/3]

```
band::interface::RaylibInterface::RaylibInterface ( )
```

### 7.9.1.2 [~RaylibInterface](#)()

```
band::interface::RaylibInterface::~~RaylibInterface ( ) [override]
```

### 7.9.1.3 [RaylibInterface](#)() [2/3]

```
band::interface::RaylibInterface::RaylibInterface (
    const RaylibInterface & ) [delete]
```



#### 7.9.1.4 RaylibInterface() [3/3]

```
band::interface::RaylibInterface::RaylibInterface (
    const RaylibInterface && ) [delete]
```

### 7.9.2 Member Function Documentation

#### 7.9.2.1 CharacterPressed()

```
std::optional<char> band::interface::RaylibInterface::CharacterPressed ( ) const [override],
[virtual]
```

Implements [band::Interface](#).

#### 7.9.2.2 Clear()

```
void band::interface::RaylibInterface::Clear (
    const Color & color ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.3 Close()

```
void band::interface::RaylibInterface::Close ( )
```

#### 7.9.2.4 CreateBlankTexture()

```
TextureId band::interface::RaylibInterface::CreateBlankTexture (
    const Area & area ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.5 CreateImageTexture()

```
TextureId band::interface::RaylibInterface::CreateImageTexture (
    ImageId id,
    const Area & area ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.6 DeleteAllFonts()

```
void band::interface::RaylibInterface::DeleteAllFonts ( ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.7 DeleteAllImages()

```
void band::interface::RaylibInterface::DeleteAllImages ( ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.8 DeleteAllTextures()

```
void band::interface::RaylibInterface::DeleteAllTextures ( ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.9 DeleteFont()

```
void band::interface::RaylibInterface::DeleteFont (
    FontId id ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.10 DeleteImage()

```
void band::interface::RaylibInterface::DeleteImage (
    ImageId id ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.11 DeleteTexture()

```
void band::interface::RaylibInterface::DeleteTexture (
    TextureId id ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.12 DrawCircle()

```
void band::interface::RaylibInterface::DrawCircle (
    const Circle & circle,
    const Leg & leg,
    const Color & color ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.13 DrawFps()

```
void band::interface::RaylibInterface::DrawFps (
    const Point & position ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.14 DrawLine()

```
void band::interface::RaylibInterface::DrawLine (
    const Line & line,
    const Dimension & thickness,
    const Leg & leg,
    const Color & color ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.15 DrawRectangle()

```
void band::interface::RaylibInterface::DrawRectangle (
    const Rectangle & rectangle,
    const Color & color ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.16 DrawText()

```
void band::interface::RaylibInterface::DrawText (
    const Text & text,
    const Point & position,
    const Dimension & dimension,
    const Color & color,
    FontId id ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.17 DrawTexture()

```
void band::interface::RaylibInterface::DrawTexture (
    TextureId id,
    const Point & position ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.18 DrawTriangle()

```
void band::interface::RaylibInterface::DrawTriangle (
    const Triangle & triangle,
    const Color & color ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.19 HasAction()

```
bool band::interface::RaylibInterface::HasAction (
    const Action & action ) const [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.20 LoadFont()

```
FontId band::interface::RaylibInterface::LoadFont (
    const File & ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.21 LoadImage()

```
ImageId band::interface::RaylibInterface::LoadImage (
    const File & ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.22 MeasureText()

```
Area band::interface::RaylibInterface::MeasureText (
    const Text & text,
    const Dimension & dimension,
    FontId id ) const [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.23 MousePosition()

```
Point band::interface::RaylibInterface::MousePosition ( ) const [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.24 Open()

```
void band::interface::RaylibInterface::Open ( )
```

#### 7.9.2.25 operator=() [1/2]

```
RaylibInterface& band::interface::RaylibInterface::operator= (
    const RaylibInterface & ) [delete]
```

#### 7.9.2.26 operator=() [2/2]

```
RaylibInterface& band::interface::RaylibInterface::operator= (
    const RaylibInterface && ) [delete]
```

#### 7.9.2.27 SelectTexture()

```
void band::interface::RaylibInterface::SelectTexture (
    TextureId id ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.28 SetIcon()

```
void band::interface::RaylibInterface::SetIcon (
    ImageId id ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.29 SetTargetFps()

```
void band::interface::RaylibInterface::SetTargetFps (
    Size fps ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.30 SetTitle()

```
void band::interface::RaylibInterface::SetTitle (
    const Text & text ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.31 SetWindowArea()

```
void band::interface::RaylibInterface::SetWindowArea (
    const ::band::WindowArea & area ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.32 StartDrawing()

```
void band::interface::RaylibInterface::StartDrawing ( ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.33 StopDrawing()

```
void band::interface::RaylibInterface::StopDrawing ( ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.34 ToggleFullscreen()

```
void band::interface::RaylibInterface::ToggleFullscreen ( ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.35 UnselectTexture()

```
void band::interface::RaylibInterface::UnselectTexture ( ) [override], [virtual]
```

Implements [band::Interface](#).

#### 7.9.2.36 WindowArea()

```
::band::WindowArea band::interface::RaylibInterface::WindowArea ( ) const [override], [virtual]
```

Implements [band::Interface](#).

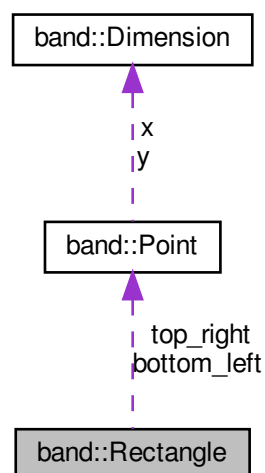
The documentation for this class was generated from the following file:

- [band/interface/raylib\\_interface.h](#)

## 7.10 band::Rectangle Struct Reference

```
#include <interface.h>
```

Collaboration diagram for band::Rectangle:



## Public Attributes

- [Point](#) `bottom_left`
- [Point](#) `top_right`

### 7.10.1 Member Data Documentation

#### 7.10.1.1 `bottom_left`

[Point](#) `band::Rectangle::bottom_left`

#### 7.10.1.2 `top_right`

[Point](#) `band::Rectangle::top_right`

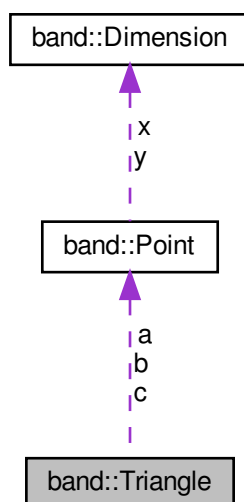
The documentation for this struct was generated from the following file:

- `band/`[interface.h](#)

## 7.11 `band::Triangle` Struct Reference

```
#include <interface.h>
```

Collaboration diagram for `band::Triangle`:





### Public Attributes

- [Point a](#)
- [Point b](#)
- [Point c](#)

#### 7.11.1 Member Data Documentation

##### 7.11.1.1 a

`Point band::Triangle::a`

##### 7.11.1.2 b

`Point band::Triangle::b`

##### 7.11.1.3 c

`Point band::Triangle::c`

The documentation for this struct was generated from the following file:

- band/[interface.h](#)

## 7.12 band::WindowArea Struct Reference

```
#include <interface.h>
```

### Public Attributes

- [Real width](#)
- [Real height](#)

#### 7.12.1 Member Data Documentation

##### 7.12.1.1 height

`Real band::WindowArea::height`

##### 7.12.1.2 width

`Real band::WindowArea::width`

The documentation for this struct was generated from the following file:

- band/[interface.h](#)



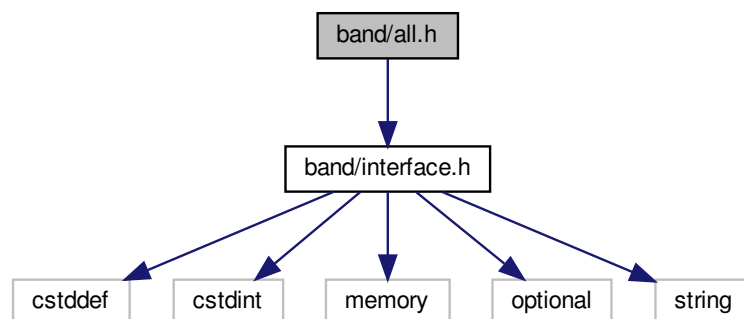
## Chapter 8

# File Documentation

### 8.1 band/all.h File Reference

```
#include "band/interface.h"
```

Include dependency graph for all.h:

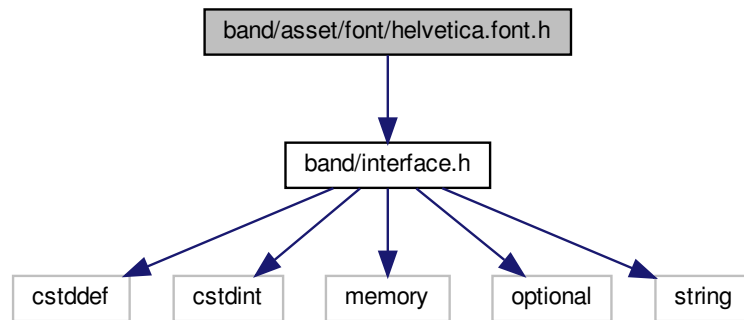


### 8.2 band/asset/font/helvetica.font.d File Reference

### 8.3 band/asset/font/helvetica.font.h File Reference

```
#include "band/interface.h"
```

Include dependency graph for helvetica.font.h:



## Namespaces

- [band](#)
- [band::asset](#)
- [band::asset::font](#)

## Functions

- [band::File band::asset::font::Helvetica \(\)](#)

## 8.4 band/interface.d File Reference

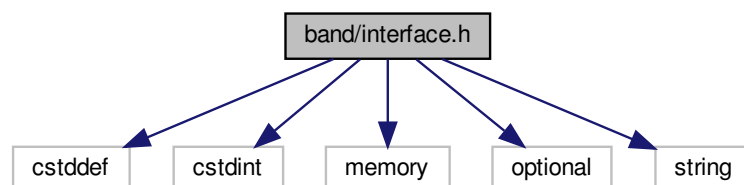
## 8.5 band/interface.h File Reference

```

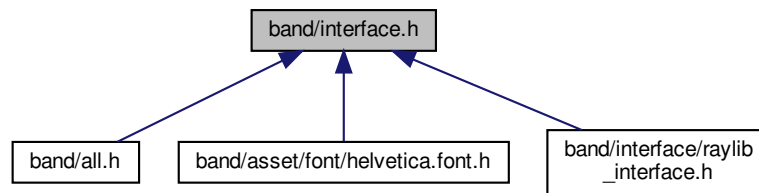
#include <cstddef>
#include <cstdint>
#include <memory>
#include <optional>
#include <string>

```

Include dependency graph for interface.h:



This graph shows which files directly or indirectly include this file:



## Classes

- struct [band::File](#)
- struct [band::Dimension](#)
- struct [band::Point](#)
- struct [band::Line](#)
- struct [band::Circle](#)
- struct [band::Triangle](#)
- struct [band::Rectangle](#)
- struct [band::Area](#)
- struct [band::WindowArea](#)
- struct [band::Color](#)
- class [band::Interface](#)

## Namespaces

- [band](#)

## Typedefs

- using [band::Text](#) = std::string
- using [band::Size](#) = uint32\_t
- using [band::TextureId](#) = size\_t
- using [band::ImageId](#) = size\_t
- using [band::FontId](#) = size\_t
- using [band::Real](#) = double
- using [band::Component](#) = uint8\_t

## Enumerations

- enum [band::Unit](#) { [band::Unit::kPixel](#), [band::Unit::kRatio](#) }
- enum [band::Action](#) { [band::Action::kLeftClick](#), [band::Action::kRightClick](#), [band::Action::kClose](#), [band::Action::kBackspace](#) }
- enum [band::Leg](#) { [band::Leg::kWidth](#), [band::Leg::kHeight](#) }

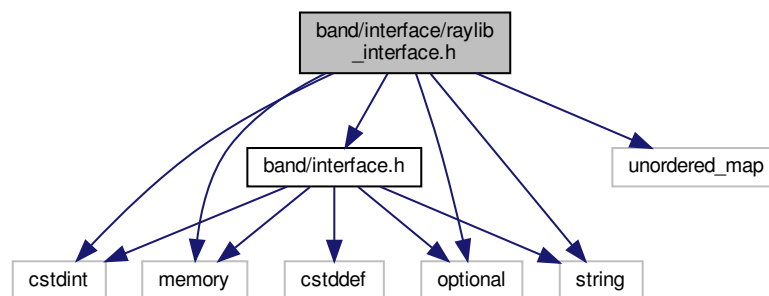
## Functions

- Dimension [band::AddDimensions](#) (const Dimension &a, const Dimension &b, Real pixels)
- Dimension [band::SubtractDimensions](#) (const Dimension &a, const Dimension &b, Real pixels)
- Dimension [band::MultiplyDimensions](#) (const Dimension &a, Real scalar)
- std::unique\_ptr< Interface > [band::DefaultInterface](#) ()

## 8.6 band/interface/raylib\_interface.d File Reference

## 8.7 band/interface/raylib\_interface.h File Reference

```
#include <cstdint>
#include <memory>
#include <optional>
#include <string>
#include <unordered_map>
#include "band/interface.h"
Include dependency graph for raylib_interface.h:
```



## Classes

- class [band::interface::RaylibInterface](#)

## Namespaces

- [band](#)
- [band::interface](#)

## 8.8 README.md File Reference

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