# band

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# README

band is a c++ media-library.

The focus of the UI component is on controls. The controls are meant to be building blocks that can be composed into more complicated controls.

#### **Dependencies**

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

### **Building**

- make in the root-directory builds documentation.
- make in the 'band'-dierctory builds band into a static-library.
- make in the 'example'-directory builds all the examples. A make clean should be run before if the library itself was actually modified.

### 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.
- example/bin/control runs an example using controls.

# Linking

 Provide the path to the combiled 'band'-directory as an include-path and the compiled static-library as a linked-library. Additionally, dl, Xll, 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 'enchancement'. 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.

2 README

# Namespace Index

# 2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

band							 																
band::asset																							
band::asset::font							 	 															
band::control .							 	 															
band::interface							 	 														 	

4 Namespace Index

# **Hierarchical Index**

# 3.1 Class Hierarchy

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

1 1 A	
band::Area	
band::Circle	31
band::Color	32
band::Control	33
$band::control::Anchor < T > \dots \dots$	19
band::control::Border	23
band::control::Button <t></t>	25
band::control::FixedPanel< T >	36
band::control::Fps	38
band::control::Label	47
band::control::Rectangle	62
band::control::StackPanel< T >	65
band::control::Texture	68
band::Dimension	34
band::File	35
band::Interface	39
band::interface::RaylibInterface	52
band::Line	50
band::Point	51
band::Rectangle	61
band::Scope	64
band::Triangle	70
band::WindowArea	71

6 Hierarchical Index

# **Class Index**

# 4.1 Class List

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

band::control::Anchor< T >	19
band::Area	22
band::control::Border	23
$band::control::Button < T > \dots \dots$	25
band::Circle	31
band::Color	32
band::Control	33
band::Dimension	34
band::File	35
band::control::FixedPanel< T >	36
band::control::Fps	38
band::Interface	39
band::control::Label	47
band::Line	50
band::Point	51
band::interface::RaylibInterface	52
band::Rectangle	61
band::control::Rectangle	62
band::Scope	64
band::control::StackPanel< T >	65
band::control::Texture	68
band::Triangle	70
band::WindowArea	71

8 Class Index

# File Index

# 5.1 File List

Here is a list of all files with brief descriptions:

band/aii.n
band/control.d
band/control.h
band/interface.d
band/interface.h
band/scope.d
band/scope.h
band/asset/font/helvetica.font.d
band/asset/font/helvetica.font.h
band/control/all.h
band/control/anchor.h
band/control/border.d
band/control/border.h
band/control/button.h
band/control/fixed_panel.h
band/control/fps.d
band/control/fps.h
band/control/label.d
band/control/label.h
band/control/rectangle.d
band/control/rectangle.h
band/control/separator.h
band/control/stack_panel.h
band/control/texture.d
band/control/texture.h
band/interface/raylib_interface.d
band/interface/raylib_interface.h

10 File Index

# **Namespace Documentation**

# 6.1 band Namespace Reference

# **Namespaces**

- asset
- control
- interface

### Classes

- struct Area
- struct Circle
- struct Color
- class Control
- struct Dimension
- struct File
- · class Interface
- struct Line
- struct Point
- struct Rectangle
- class Scope
- 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 Alignment { Alignment::kTop, Alignment::kMiddle, Alignment::kBottom }
- enum Direction { Direction::kHorizontal, Direction::kVertical }
- enum Unit { Unit::kPixel, Unit::kRatio }
- enum Leg { Leg::kWidth, Leg::kHeight }

#### **Functions**

- void Update (const Point &position, const Interface &interface, Control &control)
- · void DrawFrame (const Color &clear\_color, const Point &position, Interface &interface, Control &control)
- bool operator== (const Dimension &a, const Dimension &b)
- bool operator!= (const Dimension &a, const Dimension &b)
- bool IsDimensionGreaterThanOrEqualTo (const Dimension &a, const Dimension &b, Real pixels)
- Dimension MaxDimension (const Dimension &a, const Dimension &b, Real pixels)
- Dimension MinDimension (const Dimension &a, const Dimension &b, Real pixels)
- Dimension AddDimensions (const Dimension &a, const Dimension &b, Real pixels)
- Dimension SubtractDimensions (const Dimension &a, const Dimension &b, Real pixels)
- Dimension MultiplyDimension (const Dimension &a, Real scalar)
- bool operator!= (const Point &a, const Point &b)
- bool operator!= (const Line &a, const Line &b)
- bool operator!= (const Circle &a, const Circle &b)
- bool operator!= (const Triangle &a, const Triangle &b)
- bool operator!= (const Rectangle &a, const Rectangle &b)
- bool operator!= (const Area &a, const Area &b)
- bool operator!= (const WindowArea &a, const WindowArea &b)
- bool operator!= (const Color &a, const Color &b)
- 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 Imageld

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 Textureld

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

# 6.1.2 Enumeration Type Documentation

### 6.1.2.1 Alignment

```
enum band::Alignment [strong]
```

### Enumerator

kTop	
kMiddle	
kBottom	

# 6.1.2.2 Direction

```
enum band::Direction [strong]
```

#### Enumerator

KHorizontai	
1.77	
kVertical	
Generated by Doxyo	en

### 6.1.2.3 Leg

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

#### Enumerator

kWidth	
kHeight	

## 6.1.2.4 Unit

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

#### Enumerator

kPixel	
kRatio	

# 6.1.3 Function Documentation

# 6.1.3.1 AddDimensions()

## 6.1.3.2 DefaultInterface()

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

#### 6.1.3.3 DrawFrame()

## 6.1.3.4 IsDimensionGreaterThanOrEqualTo()

#### 6.1.3.5 MaxDimension()

# 6.1.3.6 MinDimension()

### 6.1.3.7 MultiplyDimension()

# **6.1.3.8** operator"!=() [1/9]

```
6.1.3.9 operator"!=() [2/9]
bool band::operator!= (
           const Point & a,
             const Point & b )
6.1.3.10 operator"!=() [3/9]
bool band::operator!= (
            const Line & a,
             const Line & b )
6.1.3.11 operator"!=() [4/9]
bool band::operator!= (
            const Circle & a,
             const Circle & b )
6.1.3.12 operator"!=() [5/9]
bool band::operator!= (
             const Triangle & a,
             const Triangle & b )
6.1.3.13 operator"!=() [6/9]
bool band::operator!= (
            const Rectangle & a,
             const Rectangle & b )
6.1.3.14 operator"!=() [7/9]
bool band::operator!= (
            const Area & a,
             const Area & b )
```

```
6.1.3.15 operator"!=() [8/9]
bool band::operator!= (
            const WindowArea & a,
            const WindowArea & b )
6.1.3.16 operator"!=() [9/9]
bool band::operator!= (
            const Color & a,
            const Color & b )
6.1.3.17 operator==()
bool band::operator== (
            const Dimension & a,
            const Dimension & b )
6.1.3.18 SubtractDimensions()
Dimension band::SubtractDimensions (
            const Dimension & a,
            const Dimension & b,
            Real pixels )
6.1.3.19 Update()
void band::Update (
            const Point & position,
            const Interface & interface,
             Control & control )
```

# 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::control Namespace Reference

### Classes

- class Anchor
- class Border
- class Button
- class FixedPanel
- class Fps
- class Label
- class Rectangle
- class StackPanel
- class Texture

# **Typedefs**

```
• using Separator = ::band::control::Rectangle
```

## 6.4.1 Typedef Documentation

### 6.4.1.1 Separator

```
using band::control::Separator = typedef ::band::control::Rectangle
```

# 6.5 band::interface Namespace Reference

### **Classes**

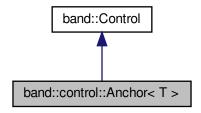
· class RaylibInterface

# **Class Documentation**

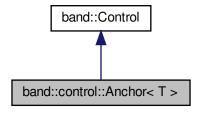
# 7.1 band::control::Anchor < T > Class Template Reference

#include <anchor.h>

Inheritance diagram for band::control::Anchor< T >:



Collaboration diagram for band::control::Anchor < T >:



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# **Public Member Functions**

- · Alignment HorizontalAlignment () const
- · void SetHorizontalAlignment (const Alignment &alignment)
- Alignment VerticalAlignment () const
- void SetVerticalAlignment (const Alignment &alignment)
- ::band::Area ReferenceArea () const
- void SetReferenceArea (const ::band::Area &area)
- void SetControl (T control)
- ::band::Area Area (const Interface &interface) const override
- · void Update (const Point &position, const Interface &interface) override
- · void Display (const Point &position, Interface &interface) override

### 7.1.1 Member Function Documentation

#### 7.1.1.1 Area()

Implements band::Control.

### 7.1.1.2 Display()

Implements band::Control.

#### 7.1.1.3 HorizontalAlignment()

```
template<typename T >
Alignment band::control::Anchor< T >::HorizontalAlignment ( ) const
```

#### 7.1.1.4 ReferenceArea()

```
template<typename T > band::Area band::control::Anchor< T >::ReferenceArea ( ) const
```

#### 7.1.1.5 SetControl()

### 7.1.1.6 SetHorizontalAlignment()

#### 7.1.1.7 SetReferenceArea()

#### 7.1.1.8 SetVerticalAlignment()

### 7.1.1.9 Update()

Implements band::Control.

#### 7.1.1.10 VerticalAlignment()

```
template<typename T >
Alignment band::control::Anchor< T >::VerticalAlignment ( ) const
```

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

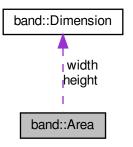
• band/control/anchor.h

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# 7.2 band::Area Struct Reference

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

Collaboration diagram for band::Area:



### **Public Attributes**

- Dimension width {}
- Dimension height {}

## 7.2.1 Member Data Documentation

# 7.2.1.1 height

```
Dimension band::Area::height {}
```

#### 7.2.1.2 width

```
Dimension band::Area::width {}
```

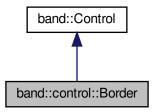
The documentation for this struct was generated from the following file:

• band/interface.h

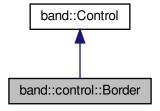
## 7.3 band::control::Border Class Reference

#include <border.h>

Inheritance diagram for band::control::Border:



Collaboration diagram for band::control::Border:



## **Public Member Functions**

- Dimension Thickness () const
- void SetThickness (const Dimension &thickness)
- ::band::Color Color () const
- void SetColor (const ::band::Color &color)
- Real RealBorderThickness (const Interface &interface) const
- void SetArea (const ::band::Area &area)
- ::band::Area Area (const Interface &interface) const override
- · void Update (const Point &position, const Interface &interface) override
- void Display (const Point &position, Interface &interface) override

## 7.3.1 Member Function Documentation

```
7.3.1.1 Area()
```

```
::band::Area band::control::Border::Area (
             const Interface & interface ) const [override], [virtual]
Implements band::Control.
7.3.1.2 Color()
::band::Color band::control::Border::Color ( ) const
7.3.1.3 Display()
void band::control::Border::Display (
             const Point & position,
             Interface & interface ) [override], [virtual]
Implements band::Control.
7.3.1.4 RealBorderThickness()
Real band::control::Border::RealBorderThickness (
            const Interface & interface ) const
7.3.1.5 SetArea()
void band::control::Border::SetArea (
            const ::band::Area & area )
```

# 7.3.1.6 SetColor()

#### 7.3.1.7 SetThickness()

# 7.3.1.8 Thickness()

Dimension band::control::Border::Thickness ( ) const

## 7.3.1.9 Update()

Implements band::Control.

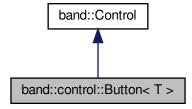
The documentation for this class was generated from the following file:

• band/control/border.h

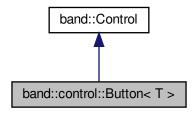
# 7.4 band::control::Button< T > Class Template Reference

```
#include <button.h>
```

Inheritance diagram for band::control::Button< T >:



Collaboration diagram for band::control::Button< T >:



# **Public Types**

• enum Action { Action::kNone, Action::kPress, Action::kHover }

#### **Public Member Functions**

- Color FillColor () const
- void SetFillColor (const Color &color)
- Color HoverColor () const
- void SetHoverColor (const Color &color)
- Color DisabledColor () const
- void SetDisabledColor (const Color &color)
- Color BorderColor () const
- void SetBorderColor (const Color &color)
- Alignment HorizontalAlignment () const
- void SetHorizontalAlignment (const Alignment & alignment)
- · Alignment VerticalAlignment () const
- void SetVerticalAlignment (const Alignment &alignment)
- · Dimension BorderThickness () const
- void SetBorderThickness (const Dimension &border\_thickness)
- void Disable ()
- void Enable ()
- bool IsEnabled () const
- void SetArea (const std::optional<::band::Area > &area)
- void SetControl (T control)
- · Action LastAction () const
- ::band::Area Area (const Interface &interface) const override
- · void Update (const Point &position, const Interface &interface) override
- · void Display (const Point &position, Interface &interface) override

#### 7.4.1 Member Enumeration Documentation

#### 7.4.1.1 Action

```
template<typename T >
enum band::control::Button::Action [strong]
```

#### Enumerator

kNone	
kPress	
kHover	

#### 7.4.2 Member Function Documentation

## 7.4.2.1 Area()

Implements band::Control.

## 7.4.2.2 BorderColor()

```
template<typename T >
Color band::control::Button< T >::BorderColor ( ) const
```

# 7.4.2.3 BorderThickness()

```
template<typename T >
Dimension band::control::Button< T >::BorderThickness ( ) const
```

# 7.4.2.4 Disable()

```
template<typename T >
void band::control::Button< T >::Disable ( )
```

# 7.4.2.5 DisabledColor()

```
\label{template} $$ template < typename T > $$ Color band::control::Button < T > ::DisabledColor ( ) const
```

```
7.4.2.6 Display()
```

```
template<typename T >
void band::control::Button< T >::Display (
             const Point & position,
             Interface & interface ) [override], [virtual]
Implements band::Control.
7.4.2.7 Enable()
template<typename T >
void band::control::Button< T >::Enable ( )
7.4.2.8 FillColor()
template<typename T >
Color band::control::Button< T >::FillColor ( ) const
7.4.2.9 HorizontalAlignment()
template<typename T >
{\tt Alignment\ band::control::Button<\ T\ >::Horizontal Alignment\ (\ )\ const}
7.4.2.10 HoverColor()
template<typename T >
Color band::control::Button< T >::HoverColor ( ) const
7.4.2.11 IsEnabled()
template<typename T >
bool band::control::Button< T >::IsEnabled ( ) const
```

```
7.4.2.12 LastAction()
```

```
template<typename T >
band::control::Button< T >::Action band::control::Button< T >::LastAction ( ) const
7.4.2.13 SetArea()
template<typename T >
void band::control::Button< T >::SetArea (
             const std::optional<::band::Area > & area )
7.4.2.14 SetBorderColor()
template<typename T >
void band::control::Button< T >::SetBorderColor (
            const Color & color )
7.4.2.15 SetBorderThickness()
template<typename T >
void band::control::Button< T >::SetBorderThickness (
            const Dimension & border_thickness )
7.4.2.16 SetControl()
template<typename T >
void band::control::Button< T >::SetControl (
            T control )
7.4.2.17 SetDisabledColor()
template<typename T >
void band::control::Button< T >::SetDisabledColor (
           const Color & color )
```

#### 7.4.2.18 SetFillColor()

## 7.4.2.19 SetHorizontalAlignment()

#### 7.4.2.20 SetHoverColor()

## 7.4.2.21 SetVerticalAlignment()

## 7.4.2.22 Update()

Implements band::Control.

# 7.4.2.23 VerticalAlignment()

```
template<typename T >
Alignment band::control::Button< T >::VerticalAlignment ( ) const
```

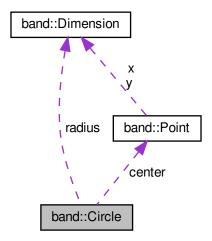
The documentation for this class was generated from the following file:

• band/control/button.h

# 7.5 band::Circle Struct Reference

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

Collaboration diagram for band::Circle:



# **Public Attributes**

- Point center {}
- Dimension radius {}

# 7.5.1 Member Data Documentation

#### 7.5.1.1 center

```
Point band::Circle::center {}
```

# 7.5.1.2 radius

```
Dimension band::Circle::radius {}
```

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

• band/interface.h

# 7.6 band::Color Struct Reference

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

## **Public Attributes**

- Component r {}
- Component g {}
- Component b {}
- Component a {}

## 7.6.1 Member Data Documentation

```
7.6.1.1 a

Component band::Color::a {}

7.6.1.2 b

Component band::Color::b {}

7.6.1.3 g

Component band::Color::g {}
```

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

• band/interface.h

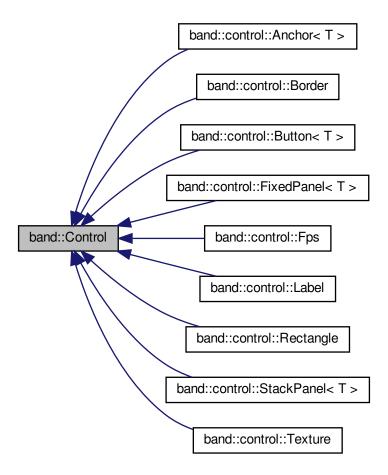
Component band::Color::r {}

7.6.1.4 r

# 7.7 band::Control Class Reference

#include <control.h>

Inheritance diagram for band::Control:



# **Public Member Functions**

- virtual ∼Control ()=default
- virtual ::band::Area Area (const Interface &interface) const =0
- virtual void Update (const Point &position, const Interface &interface)=0
- virtual void Display (const Point &position, Interface &interface)=0

## 7.7.1 Constructor & Destructor Documentation

#### 7.7.1.1 ~Control()

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

## 7.7.2 Member Function Documentation

#### 7.7.2.1 Area()

Implemented in band::control::Button< T >, band::control::Border, band::control::StackPanel< T >, band::control::Anchor< T >, band::control::FixedPanel< T >, band::control::Rectangle, band::control::Texture, and band::control::Fps.

#### 7.7.2.2 Display()

Implemented in band::control::Button< T >, band::control::Border, band::control::StackPanel< T >, band::control::Anchor< T >, band::control::Label, band::control::FixedPanel< T >, band::control::Rectangle, band::control::Texture, and band::control::Fps.

#### 7.7.2.3 Update()

Implemented in band::control::Button< T >, band::control::Border, band::control::StackPanel< T >, band::control::Anchor< T >, band::control::Label, band::control::FixedPanel< T >, band::control::Rectangle, band::control::Texture, and band::control::Fps.

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

· band/control.h

## 7.8 band::Dimension Struct Reference

#include <interface.h>

# **Public Attributes**

- Real scalar = 0.0
- Unit unit {}

# 7.8.1 Member Data Documentation

#### 7.8.1.1 scalar

```
Real band::Dimension::scalar = 0.0
```

# 7.8.1.2 unit

```
Unit band::Dimension::unit {}
```

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

• band/interface.h

# 7.9 band::File Struct Reference

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

## **Public Attributes**

- const uint8\_t \* bytes
- const size\_t n

## 7.9.1 Member Data Documentation

## 7.9.1.1 bytes

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

#### 7.9.1.2 n

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

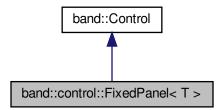
The documentation for this struct was generated from the following file:

• band/interface.h

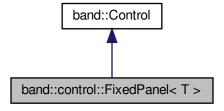
# 7.10 band::control::FixedPanel < T > Class Template Reference

```
#include <fixed_panel.h>
```

Inheritance diagram for band::control::FixedPanel< T >:



Collaboration diagram for band::control::FixedPanel< T >:



# **Public Member Functions**

- template<typename lter >
   void SetControls (const lter &begin, const lter &end)
- void SetControls (const std::initializer\_list< std::pair< T, Point >> &controls)
- ::band::Area Area (const Interface &interface) const override
- void Update (const Point &position, const Interface &interface) override
- void Display (const Point &position, Interface &interface) override

#### 7.10.1 Member Function Documentation

```
7.10.1.1 Area()
{\tt template}{<}{\tt typename}\ {\tt T}\ >
band::Area band::control::FixedPanel< T >::Area (
             const Interface & interface ) const [override], [virtual]
Implements band::Control.
7.10.1.2 Display()
template<typename T >
void band::control::FixedPanel< T >::Display (
             const Point & position,
             Interface & interface ) [override], [virtual]
Implements band::Control.
7.10.1.3 SetControls() [1/2]
template<typename T >
template<typename Iter >
void band::control::FixedPanel< T >::SetControls (
             const Iter & begin,
             const Iter & end )
7.10.1.4 SetControls() [2/2]
template<typename T >
void band::control::FixedPanel< T >::SetControls (
             const std::initializer_list< std::pair< T, Point >> & controls )
7.10.1.5 Update()
template<typename T >
void band::control::FixedPanel< T >::Update (
             const Point & position,
             const Interface & interface ) [override], [virtual]
Implements band::Control.
```

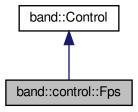
The documentation for this class was generated from the following file:

band/control/fixed\_panel.h

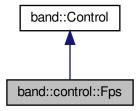
# 7.11 band::control::Fps Class Reference

```
#include <fps.h>
```

Inheritance diagram for band::control::Fps:



Collaboration diagram for band::control::Fps:



## **Public Member Functions**

- ::band::Area Area (const Interface &interface) const override
- void Update (const Point &position, const Interface &interface) override
- · void Display (const Point &position, Interface &interface) override

# 7.11.1 Member Function Documentation

```
7.11.1.1 Area()
```

Implements band::Control.

#### 7.11.1.2 Display()

Implements band::Control.

#### 7.11.1.3 Update()

Implements band::Control.

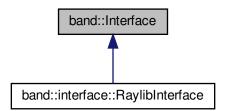
The documentation for this class was generated from the following file:

· band/control/fps.h

# 7.12 band::Interface Class Reference

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

Inheritance diagram for band::Interface:



# **Public Types**

• enum Action { Action::kLeftClick, Action::kRightClick, Action::kClose, Action::kBackspace }

#### **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 Imageld LoadImage (const File &file)=0
- virtual void Deletelmage (Imageld 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 Textureld 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

#### 7.12.1 Member Enumeration Documentation

#### 7.12.1.1 Action

enum band::Interface::Action [strong]

#### **Enumerator**

kLeftClick	
kRightClick	
kClose	
kBackspace	

## 7.12.2 Constructor & Destructor Documentation

# 7.12.2.1 $\sim$ Interface()

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

## 7.12.3 Member Function Documentation

## 7.12.3.1 CharacterPressed()

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

Implemented in band::interface::RaylibInterface.

#### 7.12.3.2 Clear()

Implemented in band::interface::RaylibInterface.

#### 7.12.3.3 CreateBlankTexture()

Implemented in band::interface::RaylibInterface.

## 7.12.3.4 CreateImageTexture()

## 7.12.3.5 DeleteAllFonts()

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

Implemented in band::interface::RaylibInterface.

#### 7.12.3.6 DeleteAllImages()

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

Implemented in band::interface::RaylibInterface.

#### 7.12.3.7 DeleteAllTextures()

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

Implemented in band::interface::RaylibInterface.

## 7.12.3.8 DeleteFont()

Implemented in band::interface::RaylibInterface.

# 7.12.3.9 Deletelmage()

Implemented in band::interface::RaylibInterface.

#### 7.12.3.10 DeleteTexture()

#### 7.12.3.11 DrawCircle()

Implemented in band::interface::RaylibInterface.

# 7.12.3.12 DrawFps()

Implemented in band::interface::RaylibInterface.

## 7.12.3.13 DrawLine()

Implemented in band::interface::RaylibInterface.

# 7.12.3.14 DrawRectangle()

Implemented in band::interface::RaylibInterface.

## 7.12.3.15 DrawText()

#### 7.12.3.16 DrawTexture()

Implemented in band::interface::RaylibInterface.

## 7.12.3.17 DrawTriangle()

Implemented in band::interface::RaylibInterface.

## 7.12.3.18 HasAction()

Implemented in band::interface::RaylibInterface.

#### 7.12.3.19 LoadFont()

Implemented in band::interface::RaylibInterface.

## 7.12.3.20 LoadImage()

#### 7.12.3.21 MeasureText()

Implemented in band::interface::RaylibInterface.

## 7.12.3.22 MousePosition()

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

Implemented in band::interface::RaylibInterface.

#### 7.12.3.23 SelectTexture()

Implemented in band::interface::RaylibInterface.

#### 7.12.3.24 SetIcon()

Implemented in band::interface::RaylibInterface.

#### 7.12.3.25 SetTargetFps()

```
7.12.3.26 SetTitle()
```

Implemented in band::interface::RaylibInterface.

```
7.12.3.27 SetWindowArea()
```

Implemented in band::interface::RaylibInterface.

#### 7.12.3.28 StartDrawing()

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

Implemented in band::interface::RaylibInterface.

## 7.12.3.29 StopDrawing()

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

Implemented in band::interface::RaylibInterface.

#### 7.12.3.30 ToggleFullscreen()

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

Implemented in band::interface::RaylibInterface.

# 7.12.3.31 UnselectTexture()

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

## 7.12.3.32 WindowArea()

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

Implemented in band::interface::RaylibInterface.

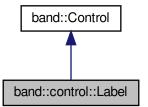
The documentation for this class was generated from the following file:

• band/interface.h

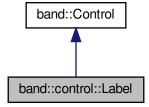
# 7.13 band::control::Label Class Reference

```
#include <label.h>
```

Inheritance diagram for band::control::Label:



Collaboration diagram for band::control::Label:



## **Public Member Functions**

- ::band::Text Text () const
- void SetText (const ::band::Text &text)
- Dimension FontSize () const
- void SetFontSize (const Dimension &font\_size)
- · Color FontColor () const
- void SetFontColor (const Color &font\_color)
- ::band::FontId FontId () const
- void SetFontId (::band::FontId font\_id)
- ::band::Area Area (const Interface &interface) const override
- void Update (const Point &position, const Interface &interface) override
- void Display (const Point &position, Interface &interface) override

#### 7.13.1 Member Function Documentation

```
7.13.1.1 Area()
```

Implements band::Control.

#### 7.13.1.2 Display()

Implements band::Control.

## 7.13.1.3 FontColor()

```
Color band::control::Label::FontColor ( ) const
```

## 7.13.1.4 FontId()

```
::band::FontId band::control::Label::FontId ( ) const
```

```
7.13.1.5 FontSize()
```

```
Dimension band::control::Label::FontSize ( ) const
7.13.1.6 SetFontColor()
void band::control::Label::SetFontColor (
            const Color & font_color )
7.13.1.7 SetFontId()
void band::control::Label::SetFontId (
             ::band::FontId font_id )
7.13.1.8 SetFontSize()
void band::control::Label::SetFontSize (
             const Dimension & font_size )
7.13.1.9 SetText()
void band::control::Label::SetText (
             const ::band::Text & text )
7.13.1.10 Text()
::band::Text band::control::Label::Text ( ) const
7.13.1.11 Update()
void band::control::Label::Update (
             const Point & position,
             const Interface & interface ) [override], [virtual]
```

Implements band::Control.

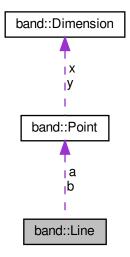
The documentation for this class was generated from the following file:

• band/control/label.h

# 7.14 band::Line Struct Reference

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

Collaboration diagram for band::Line:



# **Public Attributes**

- Point a {}
- Point b {}

# 7.14.1 Member Data Documentation

```
7.14.1.1 a
```

```
Point band::Line::a {}
```

# 7.14.1.2 b

```
Point band::Line::b {}
```

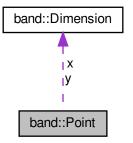
The documentation for this struct was generated from the following file:

• band/interface.h

# 7.15 band::Point Struct Reference

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

Collaboration diagram for band::Point:



## **Public Attributes**

- Dimension x {}
- Dimension y {}

# 7.15.1 Member Data Documentation

```
7.15.1.1 x
Dimension band::Point::x {}
7.15.1.2 y
Dimension band::Point::y {}
```

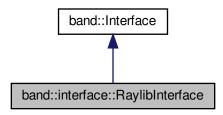
The documentation for this struct was generated from the following file:

• band/interface.h

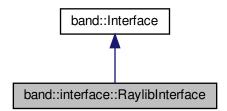
# 7.16 band::interface::RaylibInterface Class Reference

#include <raylib\_interface.h>

Inheritance diagram for band::interface::RaylibInterface:



Collaboration diagram for band::interface::RaylibInterface:



## **Public Member Functions**

- RaylibInterface ()
- $\sim$ 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 (ImageId id) override
- void SetTitle (const Text &text) override
- void ToggleFullscreen () override
- void StartDrawing () override

- · void StopDrawing () override
- Imageld 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
- Textureld 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

#### **Additional Inherited Members**

## 7.16.1 Constructor & Destructor Documentation

```
7.16.1.1 RaylibInterface() [1/3]
```

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

7.16.1.2 ~RaylibInterface()

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

```
7.16.1.3 RaylibInterface() [2/3]
band::interface::RaylibInterface::RaylibInterface (
            const RaylibInterface & ) [delete]
7.16.1.4 RaylibInterface() [3/3]
band::interface::RaylibInterface::RaylibInterface (
             const RaylibInterface && ) [delete]
7.16.2 Member Function Documentation
7.16.2.1 CharacterPressed()
std::optional<char> band::interface::RaylibInterface::CharacterPressed ( ) const [override],
Implements band::Interface.
7.16.2.2 Clear()
void band::interface::RaylibInterface::Clear (
             const Color & color ) [override], [virtual]
Implements band::Interface.
7.16.2.3 Close()
void band::interface::RaylibInterface::Close ( )
7.16.2.4 CreateBlankTexture()
TextureId band::interface::RaylibInterface::CreateBlankTexture (
             const Area & area ) [override], [virtual]
```

#### 7.16.2.5 CreateImageTexture()

Implements band::Interface.

## 7.16.2.6 DeleteAllFonts()

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

Implements band::Interface.

#### 7.16.2.7 DeleteAllImages()

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

Implements band::Interface.

## 7.16.2.8 DeleteAllTextures()

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

Implements band::Interface.

## 7.16.2.9 DeleteFont()

Implements band::Interface.

#### 7.16.2.10 DeleteImage()

#### 7.16.2.11 DeleteTexture()

Implements band::Interface.

## 7.16.2.12 DrawCircle()

Implements band::Interface.

#### 7.16.2.13 DrawFps()

Implements band::Interface.

#### 7.16.2.14 DrawLine()

Implements band::Interface.

## 7.16.2.15 DrawRectangle()

#### 7.16.2.16 DrawText()

Implements band::Interface.

# 7.16.2.17 DrawTexture()

Implements band::Interface.

#### 7.16.2.18 DrawTriangle()

Implements band::Interface.

# 7.16.2.19 HasAction()

Implements band::Interface.

# 7.16.2.20 LoadFont()

```
7.16.2.21 LoadImage()
```

```
ImageId band::interface::RaylibInterface::LoadImage (
            const File & ) [override], [virtual]
Implements band::Interface.
7.16.2.22 MeasureText()
Area band::interface::RaylibInterface::MeasureText (
             const Text & text,
             const Dimension & dimension,
             FontId id ) const [override], [virtual]
Implements band::Interface.
7.16.2.23 MousePosition()
Point band::interface::RaylibInterface::MousePosition ( ) const [override], [virtual]
Implements band::Interface.
7.16.2.24 Open()
void band::interface::RaylibInterface::Open ( )
7.16.2.25 operator=() [1/2]
RaylibInterface& band::interface::RaylibInterface::operator= (
            const RaylibInterface & ) [delete]
7.16.2.26 operator=() [2/2]
RaylibInterface& band::interface::RaylibInterface::operator= (
            const RaylibInterface && ) [delete]
```

```
7.16.2.27 SelectTexture()
```

Implements band::Interface.

#### 7.16.2.28 SetIcon()

Implements band::Interface.

#### 7.16.2.29 SetTargetFps()

Implements band::Interface.

#### 7.16.2.30 SetTitle()

Implements band::Interface.

# 7.16.2.31 SetWindowArea()

Implements band::Interface.

## 7.16.2.32 StartDrawing()

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

Implements band::Interface.

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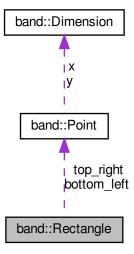
# 7.16.2.33 StopDrawing() void band::interface::RaylibInterface::StopDrawing ( ) [override], [virtual] Implements band::Interface. 7.16.2.34 ToggleFullscreen() void band::interface::RaylibInterface::ToggleFullscreen ( ) [override], [virtual] Implements band::Interface. 7.16.2.35 UnselectTexture() void band::interface::RaylibInterface::UnselectTexture ( ) [override], [virtual] Implements band::Interface. 7.16.2.36 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

# 7.17 band::Rectangle Struct Reference

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

Collaboration diagram for band::Rectangle:



## **Public Attributes**

- Point bottom\_left {}
- Point top\_right {}

#### 7.17.1 Member Data Documentation

#### 7.17.1.1 bottom\_left

```
Point band::Rectangle::bottom_left {}
```

# 7.17.1.2 top\_right

```
Point band::Rectangle::top_right {}
```

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

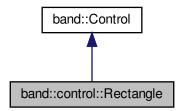
• band/interface.h

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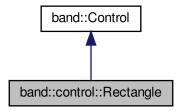
# 7.18 band::control::Rectangle Class Reference

#include <rectangle.h>

Inheritance diagram for band::control::Rectangle:



Collaboration diagram for band::control::Rectangle:



# **Public Member Functions**

- ::band::Color Color () const
- void SetColor (const ::band::Color &color)
- void SetArea (const ::band::Area &area)
- ::band::Area Area (const Interface &interface) const override
- void Update (const Point &position, const Interface &interface) override
- · void Display (const Point &position, Interface &interface) override

#### 7.18.1 Member Function Documentation

```
7.18.1.1 Area()
::band::Area band::control::Rectangle::Area (
             const Interface & interface ) const [override], [virtual]
Implements band::Control.
7.18.1.2 Color()
::band::Color band::control::Rectangle::Color ( ) const
7.18.1.3 Display()
void band::control::Rectangle::Display (
             const Point & position,
             Interface & interface ) [override], [virtual]
Implements band::Control.
7.18.1.4 SetArea()
void band::control::Rectangle::SetArea (
            const ::band::Area & area )
7.18.1.5 SetColor()
void band::control::Rectangle::SetColor (
             const ::band::Color & color )
7.18.1.6 Update()
void band::control::Rectangle::Update (
            const Point & position,
```

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

const Interface & interface ) [override], [virtual]

• band/control/rectangle.h

Implements band::Control.

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# 7.19 band::Scope Class Reference

```
#include <scope.h>
```

#### **Public Member Functions**

- Scope (const std::function< void()> &f)
- ∼Scope ()
- Scope (const Scope &)=delete
- Scope & operator= (const Scope &)=delete
- Scope (const Scope &&)=delete
- Scope & operator= (const Scope &&)=delete

#### 7.19.1 Constructor & Destructor Documentation

## 7.19.2 Member Function Documentation

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

const Scope && ) [delete]

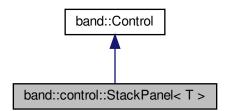
• band/scope.h

# 7.20 band::control::StackPanel < T > Class Template Reference

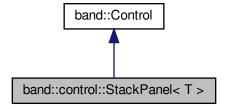
```
#include <stack_panel.h>
```

Scope& band::Scope::operator= (

Inheritance diagram for band::control::StackPanel< T >:



Collaboration diagram for band::control::StackPanel< T >:



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#### **Public Member Functions**

- · ::band::Alignment Alignment () const
- void SetAlignment (const ::band::Alignment &alignment)
- ::band::Direction Direction () const
- void SetDirection (const ::band::Direction &direction)
- template<typename lter > void SetControls (const Iter &begin, const Iter &end)
- void SetControls (const std::initializer\_list< T > &controls)
- ::band::Area Area (const Interface &interface) const override
- void Update (const Point &position, const Interface &interface) override
- · void Display (const Point &position, Interface &interface) override

#### 7.20.1 Member Function Documentation

```
7.20.1.1 Alignment()
```

#### 7.20.1.2 Area()

Implements band::Control.

#### 7.20.1.3 Direction()

```
template<typename T >
band::Direction band::control::StackPanel< T >::Direction ( ) const
```

#### 7.20.1.4 Display()

Implements band::Control.

#### 7.20.1.5 SetAlignment()

```
template<typename T >
void band::control::StackPanel< T >::SetAlignment (
             const ::band::Alignment & alignment )
7.20.1.6 SetControls() [1/2]
template<typename T >
{\tt template}{<}{\tt typename}~{\tt Iter}~{>}
void band::control::StackPanel< T >::SetControls (
             const Iter & begin,
             const Iter & end )
7.20.1.7 SetControls() [2/2]
template<typename T >
void band::control::StackPanel< T >::SetControls (
             const std::initializer_list< T > & controls )
7.20.1.8 SetDirection()
template<typename T >
void band::control::StackPanel< T >::SetDirection (
            const ::band::Direction & direction )
7.20.1.9 Update()
template<typename T >
void band::control::StackPanel< T >::Update (
             const Point & position,
             const Interface & interface ) [override], [virtual]
```

Implements band::Control.

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

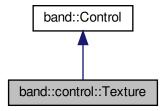
band/control/stack\_panel.h

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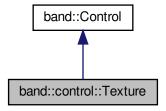
## 7.21 band::control::Texture Class Reference

#include <texture.h>

Inheritance diagram for band::control::Texture:



Collaboration diagram for band::control::Texture:



## **Public Member Functions**

- void CaptureControl (Interface &interface, Control &control)
- void CleanUp (Interface &interface)
- ::band::Area Area (const Interface &interface) const override
- void Update (const Point &position, const Interface &interface) override
- void Display (const Point &position, Interface &interface) override

#### 7.21.1 Member Function Documentation

```
7.21.1.1 Area()
```

Implements band::Control.

#### 7.21.1.2 CaptureControl()

#### 7.21.1.3 CleanUp()

#### 7.21.1.4 Display()

Implements band::Control.

# 7.21.1.5 Update()

Implements band::Control.

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

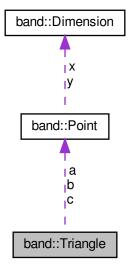
• band/control/texture.h

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# 7.22 band::Triangle Struct Reference

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

Collaboration diagram for band::Triangle:



## **Public Attributes**

- Point a {}
- Point b {}
- Point c {}

## 7.22.1 Member Data Documentation

# 7.22.1.1 a

```
Point band::Triangle::a {}
```

#### 7.22.1.2 b

Point band::Triangle::b {}

#### 7.22.1.3 c

```
Point band::Triangle::c {}
```

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

• band/interface.h

# 7.23 band::WindowArea Struct Reference

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

## **Public Attributes**

- Real width {}
- Real height {}

#### 7.23.1 Member Data Documentation

# 7.23.1.1 height

```
Real band::WindowArea::height {}
```

## 7.23.1.2 width

```
Real band::WindowArea::width {}
```

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

• band/interface.h

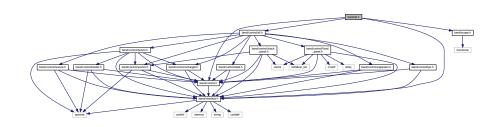
72 Class Documentation

# **Chapter 8**

# **File Documentation**

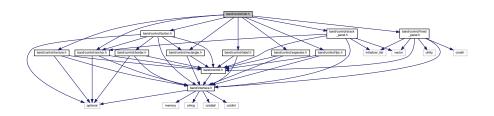
## 8.1 band/all.h File Reference

```
#include "band/control.h"
#include "band/control/all.h"
#include "band/interface.h"
#include "band/scope.h"
Include dependency graph for all.h:
```

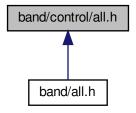


## 8.2 band/control/all.h File Reference

```
#include "band/control/anchor.h"
#include "band/control/button.h"
#include "band/control/fixed_panel.h"
#include "band/control/fps.h"
#include "band/control/label.h"
#include "band/control/rectangle.h"
#include "band/control/separator.h"
#include "band/control/stack_panel.h"
#include "band/control/texture.h"
Include dependency graph for all.h:
```



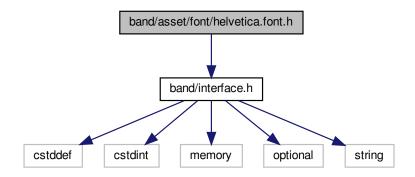
This graph shows which files directly or indirectly include this file:



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

# 8.4 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

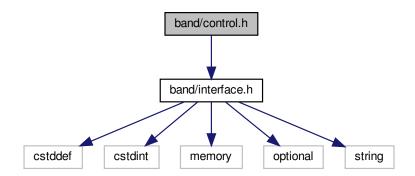
# **Functions**

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

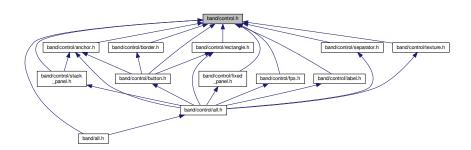
# 8.5 band/control.d File Reference

# 8.6 band/control.h File Reference

#include "band/interface.h"
Include dependency graph for control.h:



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



#### Classes

· class band::Control

# **Namespaces**

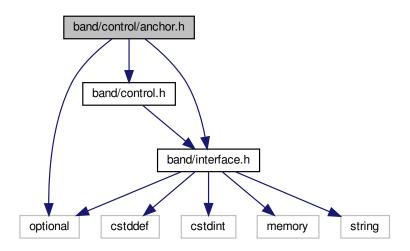
band

#### **Functions**

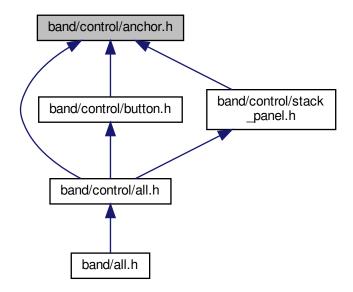
- void band::Update (const Point &position, const Interface &interface, Control &control)
- void band::DrawFrame (const Color &clear\_color, const Point &position, Interface &interface, Control &control)

# 8.7 band/control/anchor.h File Reference

```
#include <optional>
#include "band/control.h"
#include "band/interface.h"
Include dependency graph for anchor.h:
```



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



## Classes

class band::control::Anchor< T >

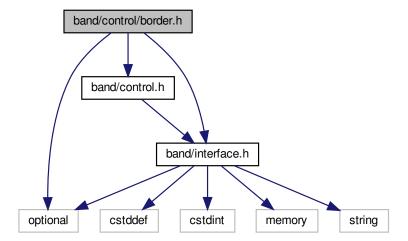
# **Namespaces**

- band
- · band::control

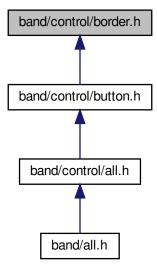
# 8.8 band/control/border.d File Reference

# 8.9 band/control/border.h File Reference

```
#include <optional>
#include "band/control.h"
#include "band/interface.h"
Include dependency graph for border.h:
```



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



#### **Classes**

· class band::control::Border

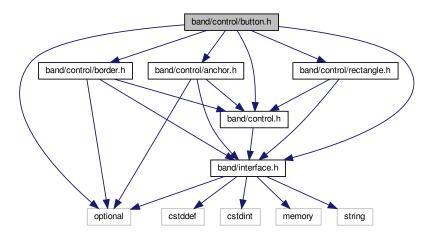
# **Namespaces**

- band
- · band::control

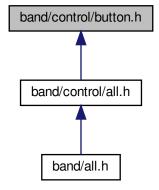
# 8.10 band/control/button.h File Reference

```
#include <optional>
#include "band/control.h"
#include "band/control/anchor.h"
#include "band/control/border.h"
#include "band/control/rectangle.h"
```

#include "band/interface.h"
Include dependency graph for button.h:



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



# **Classes**

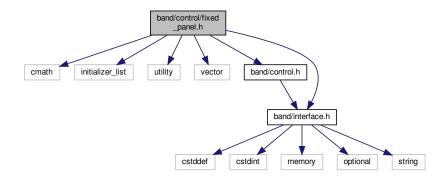
• class band::control::Button< T >

# **Namespaces**

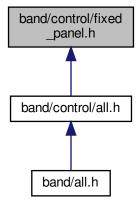
- band
- band::control

# 8.11 band/control/fixed\_panel.h File Reference

```
#include <cmath>
#include <initializer_list>
#include <utility>
#include <vector>
#include "band/control.h"
#include "band/interface.h"
Include dependency graph for fixed_panel.h:
```



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



#### **Classes**

class band::control::FixedPanel< T >

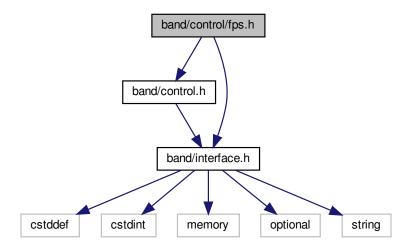
# **Namespaces**

- band
- band::control

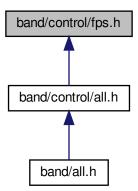
# 8.12 band/control/fps.d File Reference

# 8.13 band/control/fps.h File Reference

```
#include "band/control.h"
#include "band/interface.h"
Include dependency graph for fps.h:
```



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



## Classes

class band::control::Fps

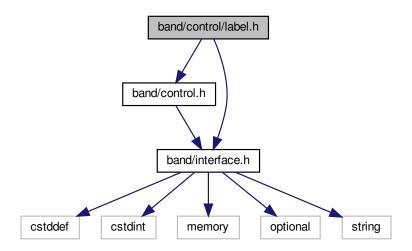
## **Namespaces**

- band
- · band::control

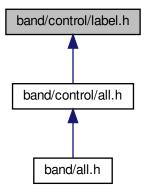
# 8.14 band/control/label.d File Reference

# 8.15 band/control/label.h File Reference

#include "band/control.h"
#include "band/interface.h"
Include dependency graph for label.h:



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



## Classes

· class band::control::Label

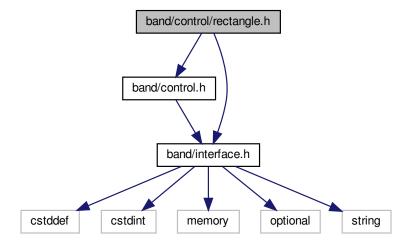
## **Namespaces**

- band
- band::control

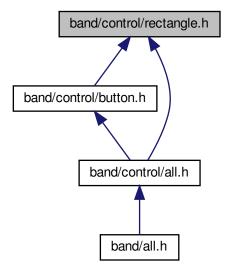
# 8.16 band/control/rectangle.d File Reference

# 8.17 band/control/rectangle.h File Reference

```
#include "band/control.h"
#include "band/interface.h"
Include dependency graph for rectangle.h:
```



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



# Classes

• class band::control::Rectangle

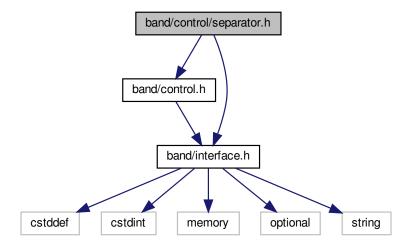
# **Namespaces**

- band
- band::control

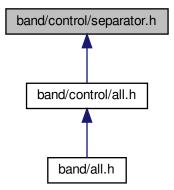
# 8.18 band/control/separator.h File Reference

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

Include dependency graph for separator.h:



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



# **Namespaces**

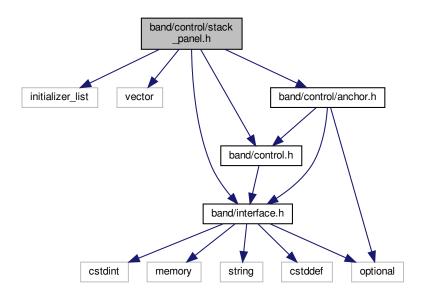
- band
- band::control

# **Typedefs**

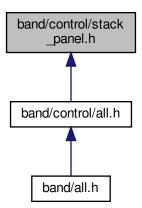
• using band::control::Separator = ::band::control::Rectangle

# 8.19 band/control/stack\_panel.h File Reference

```
#include <initializer_list>
#include <vector>
#include "band/control.h"
#include "band/control/anchor.h"
#include "band/interface.h"
Include dependency graph for stack_panel.h:
```



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



## Classes

class band::control::StackPanel< T >

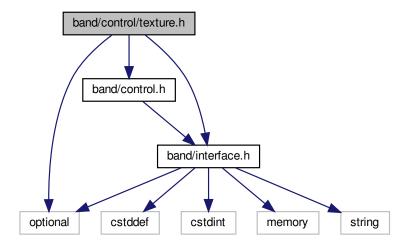
# **Namespaces**

- band
- · band::control

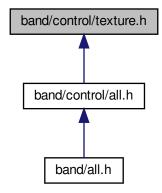
# 8.20 band/control/texture.d File Reference

# 8.21 band/control/texture.h File Reference

```
#include <optional>
#include "band/control.h"
#include "band/interface.h"
Include dependency graph for texture.h:
```



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



#### Classes

• class band::control::Texture

## **Namespaces**

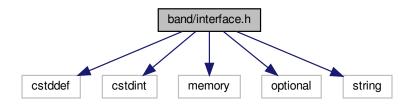
- band
- band::control

# 8.22 band/interface.d File Reference

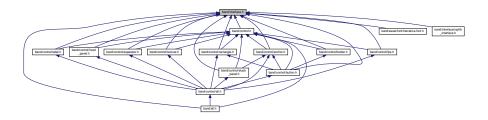
# 8.23 band/interface.h File Reference

```
#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::Alignment { band::Alignment::kTop, band::Alignment::kMiddle, band::Alignment::kBottom }
- enum band::Direction { band::Direction::kHorizontal, band::Direction::kVertical }
- enum band::Unit { band::Unit::kPixel, band::Unit::kRatio }
- enum band::Leg { band::Leg::kWidth, band::Leg::kHeight }

#### **Functions**

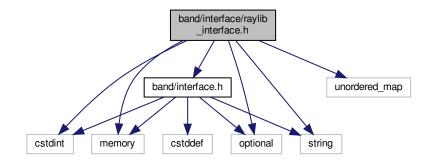
- bool band::operator== (const Dimension &a, const Dimension &b)
- bool band::operator!= (const Dimension &a, const Dimension &b)
- bool band::IsDimensionGreaterThanOrEqualTo (const Dimension &a, const Dimension &b, Real pixels)
- Dimension band::MaxDimension (const Dimension &a, const Dimension &b, Real pixels)
- Dimension band::MinDimension (const Dimension &a, const Dimension &b, Real pixels)
- Dimension band::AddDimensions (const Dimension &a, const Dimension &b, Real pixels)
- Dimension band::SubtractDimensions (const Dimension &a, const Dimension &b, Real pixels)
- Dimension band::MultiplyDimension (const Dimension &a, Real scalar)
- bool band::operator!= (const Point &a, const Point &b)
- bool band::operator!= (const Line &a, const Line &b)
- bool band::operator!= (const Circle &a, const Circle &b)
- bool band::operator!= (const Triangle &a, const Triangle &b)
- bool band::operator!= (const Rectangle &a, const Rectangle &b)
- bool band::operator!= (const Area &a, const Area &b)
- bool band::operator!= (const WindowArea &a, const WindowArea &b)
- bool band::operator!= (const Color &a, const Color &b)
- std::unique\_ptr< Interface > band::DefaultInterface ()

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

# 8.25 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

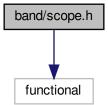
# **Namespaces**

- band
- band::interface

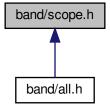
# 8.26 band/scope.d File Reference

# 8.27 band/scope.h File Reference

#include <functional>
Include dependency graph for scope.h:



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



#### **Classes**

· class band::Scope

## **Namespaces**

• band

# 8.28 README.md File Reference

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