

Team Godspeed

Generated by Doxygen 1.8.20



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# Chapter 1

## Namespace Index

### 1.1 Namespace List

Here is a list of all documented namespaces with brief descriptions:

<a href="#">framework</a>	Contains core classes used as building blocks for the rest of the project . . . . .	7
<a href="#">godspeed</a>	The primary namespace for the project . . . . .	7
<a href="#">inputs</a>	Contains all classes for input devices . . . . .	7
<a href="#">outputs</a>	Contains all classes for output devices . . . . .	7



## Chapter 2

# Hierarchical Index

### 2.1 Class Hierarchy

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

godspeed::framework::ActiveObject . . . . .	9
godspeed::framework::DataSink . . . . .	11
godspeed::framework::DataSinkB . . . . .	15
godspeed::framework::DataSinkD . . . . .	17
godspeed::framework::DataSource . . . . .	20
godspeed::framework::Event . . . . .	24
godspeed::outputs::OmniDrive3Wheel . . . . .	25
godspeed::inputs::PathScript . . . . .	28
godspeed::inputs::RemoteController . . . . .	29





## Chapter 3

# Class Index

### 3.1 Class List

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

<a href="#">godspeed::framework::ActiveObject</a>	
Abstract class for an object with it's own control thread . . . . .	9
<a href="#">godspeed::framework::DataSink</a>	
An class representing a data sink of an output device or internal object . . . . .	11
<a href="#">godspeed::framework::DataSinkB</a>	
An class representing a data sink of an output device or internal object . . . . .	15
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An class representing a data sink of an output device or internal object . . . . .	17
<a href="#">godspeed::framework::DataSource</a>	
An class representing a data source of an input device or internal object . . . . .	20
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A class for implementing observer patterns . . . . .	24
<a href="#">godspeed::outputs::OmniDrive3Wheel</a>	
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A class containing data source objects corresponding to controller inputs . . . . .	29



## Chapter 4

# Namespace Documentation

### 4.1 framework Namespace Reference

Contains core classes used as building blocks for the rest of the project.

#### 4.1.1 Detailed Description

Contains core classes used as building blocks for the rest of the project.

### 4.2 godspeed Namespace Reference

The primary namespace for the project.

#### 4.2.1 Detailed Description

The primary namespace for the project.

### 4.3 inputs Namespace Reference

Contains all classes for input devices.

#### 4.3.1 Detailed Description

Contains all classes for input devices.

### 4.4 outputs Namespace Reference

Contains all classes for output devices.

#### 4.4.1 Detailed Description

Contains all classes for output devices.



## Chapter 5

# Class Documentation

### 5.1 godspeed::framework::ActiveObject Class Reference

Abstract class for an object with it's own control thread.

```
#include <active-object.h>
```

Collaboration diagram for godspeed::framework::ActiveObject:

godspeed::framework ::ActiveObject
+ thread_ + isRunning_
+ start() + stop() + threadID() + isRunning() + setPriority() + priority() + update()

#### Public Member Functions

- virtual void [start](#) ()
- void [stop](#) ()
- int32\_t [threadID](#) ()  
*Gets the ID of the current thread.*
- bool [isRunning](#) ()  
*Returns true if the object is currently running.*
- void [setPriority](#) (int32\_t [priority](#))
- int32\_t [priority](#) ()  
*Gets the priority of the thread the object is running on.*
- virtual void [update](#) ()

## Public Attributes

- vex::thread [thread\\_](#)  
*The thread that the object runs on.*
- bool [isRunning\\_](#) = false

### 5.1.1 Detailed Description

Abstract class for an object with it's own control thread.

Provides a framework for creating very simple active objects. Has a single thread that loops a function with no arguments or returns. This thread is created on running start and killed on running stop.

### 5.1.2 Member Function Documentation

#### 5.1.2.1 setPriority()

```
void godspeed::framework::ActiveObject::setPriority (
    int32_t priority )
```

Sets the priority of the thread the object is running on

##### Parameters

<i>priority</i>	The priority to set objects thread to
-----------------	---------------------------------------

#### 5.1.2.2 start()

```
void godspeed::framework::ActiveObject::start ( ) [virtual]
```

Starts the active object

Creates a new thread that loops through the update function, and starts it if the object is not already running.

#### 5.1.2.3 stop()

```
void godspeed::framework::ActiveObject::stop ( )
```

Stops the active object

Kills the current thread the object is running on after it finishes the current loop through.

#### 5.1.2.4 update()

```
void godspeed::framework::ActiveObject::update ( ) [virtual]
```

The update function that is looped while the object is running

Must be overridden in a derivative class. Note that to stop the thread the update function or an external object must call the [stop\(\)](#) method. The update function will loop indefinitely if no stop is called.

### 5.1.3 Member Data Documentation

#### 5.1.3.1 isRunning\_

```
bool godspeed::framework::ActiveObject::isRunning_ = false
```

The boolean used to control the thread

This value is set to true when a thread starts and is set to false by the [stop\(\)](#) method. This signals the object to stop executing when it reaches the end of it's update function.

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

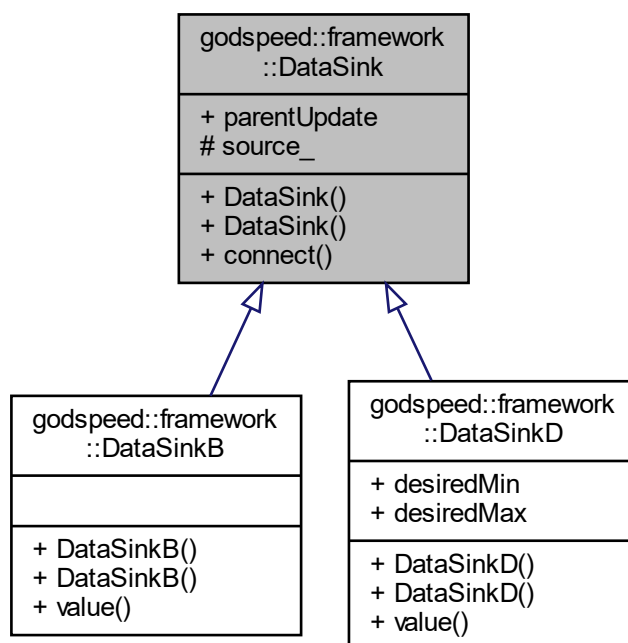
- C:/Users/anzel/source/repos/team-godspeed/include/framework/active-object.h
- C:/Users/anzel/source/repos/team-godspeed/src/framework/active-object.cpp

## 5.2 godspeed::framework::DataSink Class Reference

An class representing a data sink of an output device or internal object.

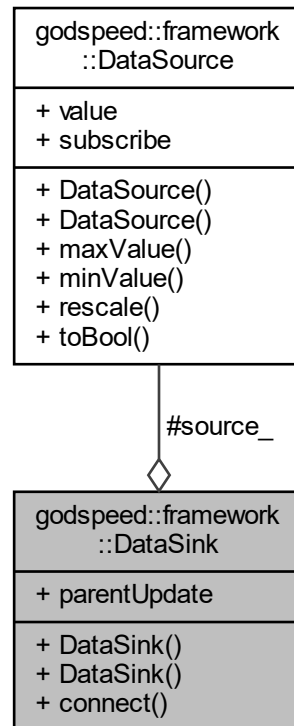
```
#include <data-sink.h>
```

Inheritance diagram for godspeed::framework::DataSink:





Collaboration diagram for godspeed::framework::DataSink:



## Public Member Functions

- [DataSink](#) ()  
*The default constructor.*
- [DataSink](#) (void(\*parentUpd)(void))
- void [connect](#) ([DataSource](#) &dat)

## Public Attributes

- void(\* [parentUpdate](#) )(void)  
*A reference to a function to call whenever the value of the connected data source changes.*

## Protected Attributes

- [DataSource](#) \* [source\\_](#)  
*A reference to the connected data source object.*

## 5.2.1 Detailed Description

An class representing a data sink of an output device or internal object.

A particular output device may require more than one input to control it, each of these inputs will be a data sink object. This is an incomplete class as it doesn't have a value getter. This class is extended by other data sinks with particular associated data types.

This class acts as an interface to objects that contain the [DataSource](#) object.

## 5.2.2 Constructor & Destructor Documentation

### 5.2.2.1 DataSink()

```
godspeed::framework::DataSink::DataSink (
    void(*) (void) parentUpd )
```

The primary constructor

#### Parameters

<i>parentUpd</i>	A function to call whenever the value of the connected data source changes
------------------	--

## 5.2.3 Member Function Documentation

### 5.2.3.1 connect()

```
void godspeed::framework::DataSink::connect (
    DataSource & dat )
```

Connects this data sink to a data source object

#### Parameters

<i>dat</i>	the data source to connect to
------------	-------------------------------

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

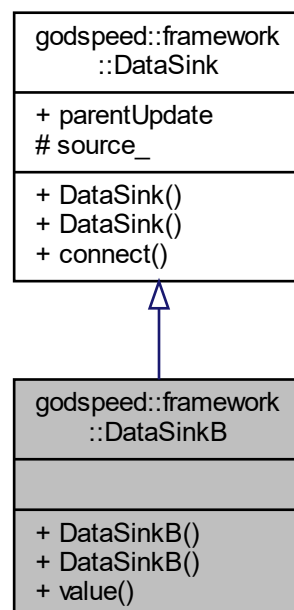
- C:/Users/anzel/source/repos/team-godspeed/include/framework/data-sink.h
- C:/Users/anzel/source/repos/team-godspeed/src/framework/data-sink.cpp

## 5.3 godspeed::framework::DataSinkB Class Reference

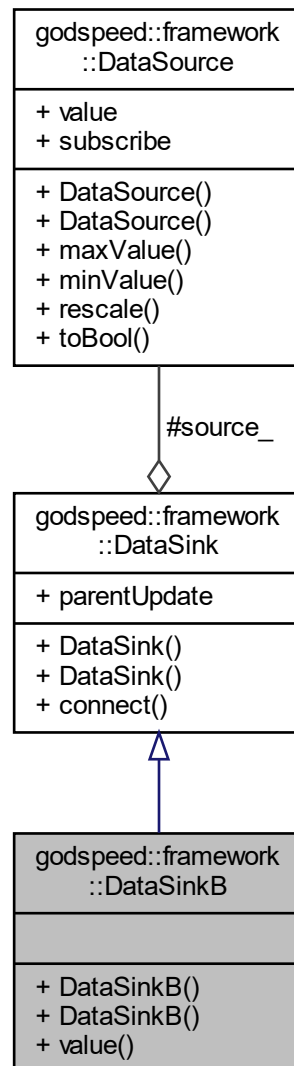
An class representing a data sink of an output device or internal object.

```
#include <data-sink-b.h>
```

Inheritance diagram for godspeed::framework::DataSinkB:



Collaboration diagram for godspeed::framework::DataSinkB:



## Public Member Functions

- [DataSinkB](#) ()  
*The default constructor.*
- [DataSinkB](#) (void(\*parentUpd)(void))
- bool [value](#) ()  
*The value of the attached data source converted to a boolean.*

## Additional Inherited Members

### 5.3.1 Detailed Description

An class representing a data sink of an output device or internal object.

This is an implementation of a data source for the boolean data type.

## 5.3.2 Constructor & Destructor Documentation

### 5.3.2.1 DataSinkB()

```
godspeed::framework::DataSinkB::DataSinkB (
    void(*) (void) parentUpd )
```

The primary constructor

#### Parameters

<i>parentUpd</i>	A function to call whenever the value of the connected data source changes
------------------	--

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

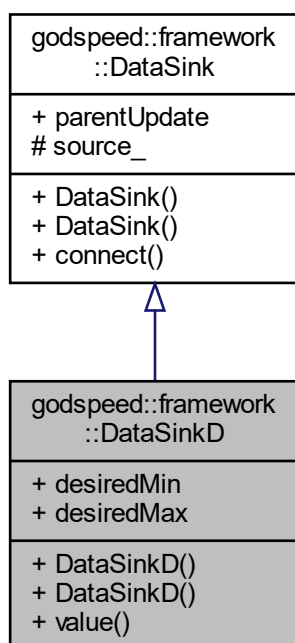
- C:/Users/anzel/source/repos/team-godspeed/include/framework/data-sink-b.h
- C:/Users/anzel/source/repos/team-godspeed/src/framework/data-sink-b.cpp

## 5.4 godspeed::framework::DataSinkD Class Reference

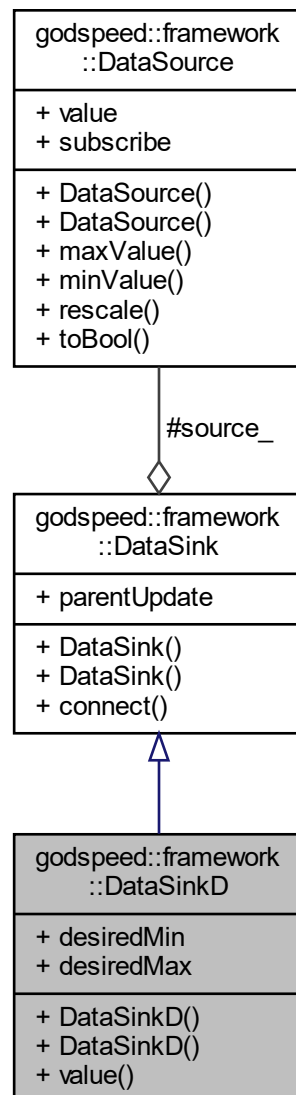
An class representing a data sink of an output device or internal object.

```
#include <data-sink-d.h>
```

Inheritance diagram for godspeed::framework::DataSinkD:



Collaboration diagram for godspeed::framework::DataSinkD:



## Public Member Functions

- [DataSinkD](#) ()  
*The default constructor.*
- [DataSinkD](#) (double desMin, double desMax, void(\*parentUpd)(void))
- double [value](#) ()  
*The scaled value of the attached data source.*

## Public Attributes

- double [desiredMin](#)

- The desired minimum for the `value()` function to return.*
- double `desiredMax`
  
*The desired maximum for the `value()` function to return.*

## Additional Inherited Members

### 5.4.1 Detailed Description

An class representing a data sink of an output device or internal object.

This is an implementation of a data source for the double data type.

### 5.4.2 Constructor & Destructor Documentation

#### 5.4.2.1 DataSinkD()

```
godspeed::framework::DataSinkD::DataSinkD (
    double desMin,
    double desMax,
    void(*) (void) parentUpd )
```

The primary constructor

#### Parameters

<i>desMin</i>	The desired minimum for the <code>value()</code> function to return
<i>desMax</i>	The desired maximum for the <code>value()</code> function to return
<i>parentUpd</i>	A function to call whenever the value of the connected data source changes

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

- C:/Users/anzel/source/repos/team-godspeed/include/framework/data-sink-d.h
- C:/Users/anzel/source/repos/team-godspeed/src/framework/data-sink-d.cpp

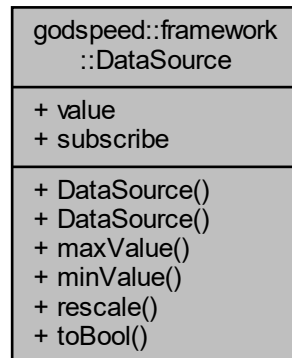
## 5.5 godspeed::framework::DataSource Class Reference

An class representing a data source of an input device or internal object.

```
#include <data-source.h>
```



Collaboration diagram for godspeed::framework::DataSource:



## Public Member Functions

- [DataSource](#) ()  
*The default constructor.*
- [DataSource](#) (double min, double max, double(\*valFunc)(void), void(\*subscribeFunc)(void(\*callback)(void)))
- double [maxValue](#) ()  
*The maximum value the data source will have.*
- double [minValue](#) ()  
*The minimum value the data source will have.*

## Static Public Member Functions

- static double [rescale](#) (double desiredMin, double desiredMax, [DataSource](#) &var)
- static bool [toBool](#) ([DataSource](#) &var)

## Public Attributes

- double(\* [value](#) )(void)
- void(\* [subscribe](#) )(void(\*callback)(void))

### 5.5.1 Detailed Description

An class representing a data source of an input device or internal object.

A particular input device may produce more than one piece of data, each piece of data will be a data source. The data will need to be represented as a double, even if it is more accurately an integer or boolean.

This class acts as an interface to objects that contain the [DataSink](#) object.

## 5.5.2 Constructor & Destructor Documentation

### 5.5.2.1 DataSource()

```
godspeed::framework::DataSource::DataSource (
    double min,
    double max,
    double(*) (void) valFunc,
    void(*) (void(*callback) (void)) subscribeFunc )
```

The primary constructor, initializes all necessary values

#### Parameters

<i>min</i>	The minimum value the data source will ever output
<i>max</i>	The maximum value the data source will ever output
<i>valFunc</i>	Address of a function that will return the current value of the data source
<i>subscribeFunc</i>	Address of a function that will subscribe a given handler to value changes of the data source

## 5.5.3 Member Function Documentation

### 5.5.3.1 rescale()

```
double godspeed::framework::DataSource::rescale (
    double desiredMin,
    double desiredMax,
    DataSource & var ) [static]
```

Rescales a data source value to be within a new min and max

This is used convert the data of a data source object into a form that a data sink can receive. Specifically this is used by the [DataSinkD](#) class.

#### Parameters

<i>desiredMin</i>	The desired minimum value for the data
<i>desiredMax</i>	The desired maximum value for the data
<i>var</i>	The data source object to rescale the value of

### 5.5.3.2 toBool()

```
bool godspeed::framework::DataSource::toBool (
```

```
DataSource & var ) [static]
```

Converts the data from a data source to a boolean

This is used convert the data of a data source object into a form that a data sink can receive. Specifically this is used by the [DataSinkB](#) class.

Returns true if the value of the data source is greater than half way between it's min and max. Otherwise returns false.

#### Parameters

<i>var</i>	The data source to convert the value of
------------	---

## 5.5.4 Member Data Documentation

### 5.5.4.1 subscribe

```
void(* godspeed::framework::DataSource::subscribe) (void(*callback)(void))
```

Function to subscribe to value changes of the source

The subscribe attribute should contain a reference to a function that can receive an event handler and subscribe said handlers to value changes of the data source. This means that it can be used with any event framework that allows for handlers with no arguments or returns.

### 5.5.4.2 value

```
double(* godspeed::framework::DataSource::value) (void)
```

The value getter for the data source

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

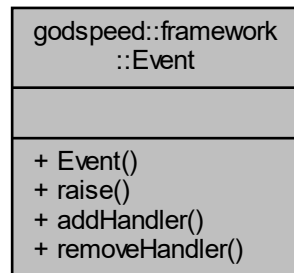
- C:/Users/anzel/source/repos/team-godspeed/include/framework/data-source.h
- C:/Users/anzel/source/repos/team-godspeed/src/framework/data-source.cpp

## 5.6 godspeed::framework::Event Class Reference

A class for implementing observer patterns.

```
#include <event.h>
```

Collaboration diagram for godspeed::framework::Event:



### Public Member Functions

- [Event](#) ()  
*The constructor for the event class.*
- void [raise](#) ()
- [Event addHandler](#) (void(\*handler)(void))
- [Event removeHandler](#) (void(\*handler)(void))

### 5.6.1 Detailed Description

A class for implementing observer patterns.

The event class allows other objects to be notified when something happens. They do this by "subscribing" to the event by passing in a function that they wish to have called whenever that event happens. The event class will then go through it's list of functions and call each one of them whenever it is raised.

It is the job of the object creating the event to raise the event when appropriate. Other objects that wish to subscribe to the event must necessarily have access to the event object or to a public function that can receive an event handler function.

### 5.6.2 Member Function Documentation

#### 5.6.2.1 addHandler()

```
Event godspeed::framework::Event::addHandler (
    void(*) (void) handler )
```

Add an event handler to the event

## Parameters

<i>handler</i>	A function with no arguments or returns that will be called when the event happens
----------------	--

**5.6.2.2 raise()**

```
void godspeed::framework::Event::raise ( )
```

Calling this method signifies that the event happened

When called this method will call every event handler that has been added to the event.

**5.6.2.3 removeHandler()**

```
Event godspeed::framework::Event::removeHandler (
    void(*) (void) handler )
```

Remove a handler from the event

To remove a handler you must have a reference to the original handler. Consequently this is usually only done by whatever object originally added the handler.

## Parameters

<i>handler</i>	The handler function to remove
----------------	--------------------------------

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

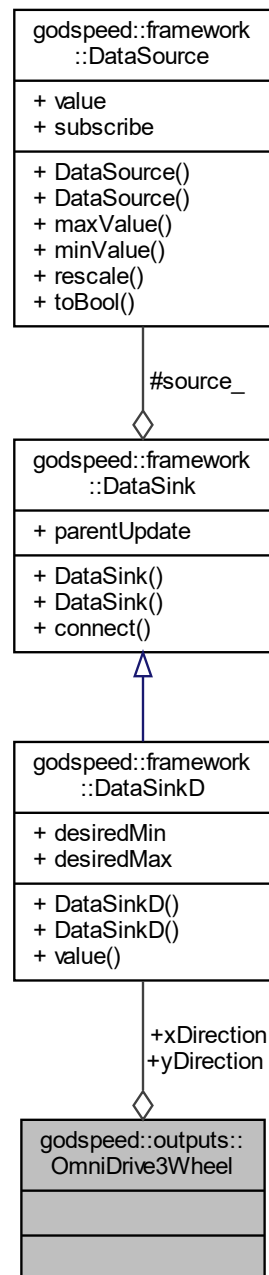
- C:/Users/anzel/source/repos/team-godspeed/include/framework/event.h
- C:/Users/anzel/source/repos/team-godspeed/src/framework/event.cpp

**5.7 godspeed::outputs::OmniDrive3Wheel Class Reference**

A class containing data sink objects corresponding to the drivetrain.

```
#include <omni-drive-3-wheel.h>
```

Collaboration diagram for godspeed::outputs::OmniDrive3Wheel:



## Static Public Attributes

- static `DataSinkD xDirection = DataSinkD(-1, 1, update)`
- static `DataSinkD yDirection = DataSinkD(-1, 1, update)`

### 5.7.1 Detailed Description

A class containing data sink objects corresponding to the drivetrain.

This class contains data sink objects for the x velocity and y velocity of the drivetrain where positive y faces toward the front of the robot and positive x faces to the right.

### 5.7.2 Member Data Documentation

#### 5.7.2.1 xDirection

```
DataSinkD godspeed::outputs::OmniDrive3Wheel::xDirection = DataSinkD(-1, 1, update) [static]
```

The data sink for the x velocity of the drivetrain

Positive x faces to the right of the robot.

#### 5.7.2.2 yDirection

```
DataSinkD godspeed::outputs::OmniDrive3Wheel::yDirection = DataSinkD(-1, 1, update) [static]
```

The data sink for the y velocity of the drivetrain

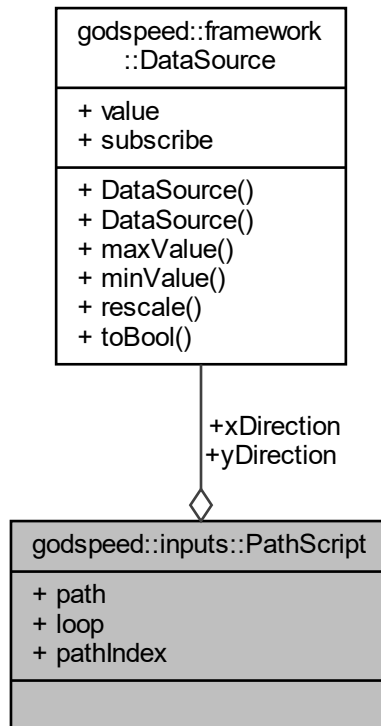
Positive y faces toward the front of the robot.

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

- C:/Users/anzel/source/repos/team-godspeed/include/outputs/omni-drive-3-wheel.h
- C:/Users/anzel/source/repos/team-godspeed/src/outputs/omni-drive-3-wheel.cpp

## 5.8 godspeed::inputs::PathScript Class Reference

Collaboration diagram for godspeed::inputs::PathScript:



### Static Public Attributes

- static [DataSource](#) **xDirection**
- static [DataSource](#) **yDirection**
- static std::list< std::tuple< double, double, double > > **path**
- static bool **loop**
- static std::list< std::tuple< double, double, double > >::iterator **pathIndex** = path.begin()

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

- C:/Users/anzel/source/repos/team-godspeed/include/inputs/path-script.h
- C:/Users/anzel/source/repos/team-godspeed/src/inputs/path-script.cpp

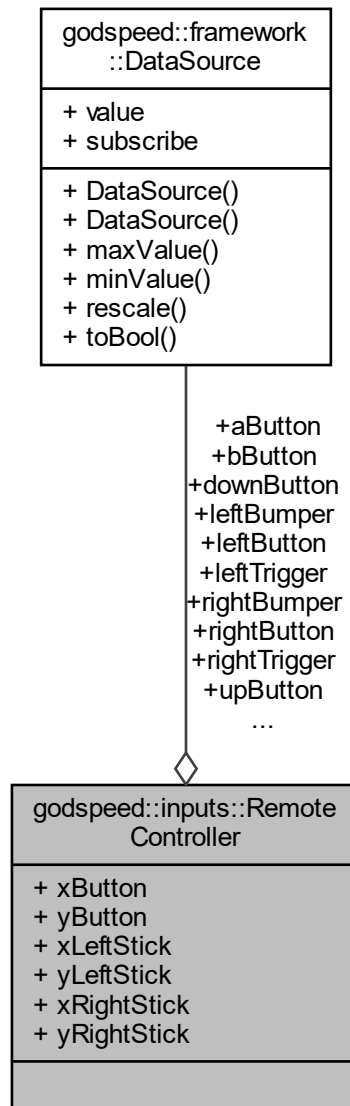


## 5.9 godspeed::inputs::RemoteController Class Reference

A class containing data source objects corresponding to controller inputs.

```
#include <remote-controller.h>
```

Collaboration diagram for godspeed::inputs::RemoteController:



### Static Public Attributes

- static [DataSource upButton](#)

*A data source corresponding to the state of the up button.*

- static `DataSource downButton = DataSource(0,1, downBtnVal, downBtnSubscribe)`  
*A data source corresponding to the state of the down button.*
- static `DataSource rightButton = DataSource(0,1, rightBtnVal, rightBtnSubscribe)`  
*A data source corresponding to the state of the right button.*
- static `DataSource leftButton = DataSource(0,1, leftBtnVal, leftBtnSubscribe)`  
*A data source corresponding to the state of the left button.*
- static `DataSource xButton = DataSource(0,1, xBtnVal, yBtnSubscribe)`  
*A data source corresponding to the state of the X button.*
- static `DataSource yButton = DataSource(0,1, yBtnVal, xBtnSubscribe)`  
*A data source corresponding to the state of the Y button.*
- static `DataSource aButton = DataSource(0,1, aBtnVal, aBtnSubscribe)`  
*A data source corresponding to the state of the A button.*
- static `DataSource bButton = DataSource(0,1, bBtnVal, bBtnSubscribe)`  
*A data source corresponding to the state of the B button.*
- static `DataSource rightTrigger = DataSource(0,1, rtVal, rtSubscribe)`  
*A data source corresponding to the state of the right trigger (R1)*
- static `DataSource rightBumper = DataSource(0,1, rbVal, rbSubscribe)`  
*A data source corresponding to the state of the right bumper (R2)*
- static `DataSource leftTrigger = DataSource(0,1, ltVal, ltSubscribe)`  
*A data source corresponding to the state of the left trigger (L1)*
- static `DataSource leftBumper = DataSource(0,1, lbVal, lbSubscribe)`  
*A data source corresponding to the state of the left bumper (L2)*
- static `DataSource xLeftStick = DataSource(-100,100, xlsVal, xlsSubscribe)`  
*A data source corresponding to the state of the left joy stick's X axis.*
- static `DataSource yLeftStick = DataSource(-100,100, ylsVal, ylsSubscribe)`  
*A data source corresponding to the state of the left joy stick's Y axis.*
- static `DataSource xRightStick = DataSource(-100,100, xrsVal, xrsSubscribe)`  
*A data source corresponding to the state of the right joy stick's X axis.*
- static `DataSource yRightStick = DataSource(-100,100, yrsVal, yrsSubscribe)`  
*A data source corresponding to the state of the right joy stick's Y axis.*

### 5.9.1 Detailed Description

A class containing data source objects corresponding to controller inputs.

This class contains 16 data source objects. Each one corresponds to an individual input on the remote controller, such as the A-button or the the left stick X axis.

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

- C:/Users/anzel/source/repos/team-godspeed/include/inputs/remote-controller.h
- C:/Users/anzel/source/repos/team-godspeed/src/inputs/remote-controller.cpp

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