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Package com.kauailabs.navx.ftc

* Interface Summary

|  |  |
| --- | --- |
| * Interface | * Description |
| * [IDataArrivalSubscriber](http://docs.google.com/com/kauailabs/navx/ftc/IDataArrivalSubscriber.html) | * The IDataArrivalSubscriber interface provides a method for consumers of navX-Model device data to be rapidly notified whenever new data has arrived. |

* Class Summary

|  |  |
| --- | --- |
| * Class | * Description |
| * [AHRS](http://docs.google.com/com/kauailabs/navx/ftc/AHRS.html) | * The AHRS class provides an interface to AHRS capabilities of the KauaiLabs navX Robotics Navigation Sensor via I2C on the Android- based FTC robotics control system, where communications occur via the "Core Device Interface Module" produced by Modern Robotics, inc. |
| * [AHRS.BoardYawAxis](http://docs.google.com/com/kauailabs/navx/ftc/AHRS.BoardYawAxis.html) | * Indicates which sensor board axis is used as the "yaw" (gravity) axis. |
| * [navXPerformanceMonitor](http://docs.google.com/com/kauailabs/navx/ftc/navXPerformanceMonitor.html) | * The navXPerformanceMonitor class is designed to provide performance data to help tune the navx\_ftc library's AHRS class to retrieve navX-Model device data using tuning parameters appropriate for a particular FTC robotic controller configuration. |
| * [navXPIDController](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.html) | * The navXPIDController implements a timestamped PID controller (designed to deal with the jitter which is typically present in a networked control system scenario). |
| * [navXPIDController.PIDResult](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.PIDResult.html) | * The PIDResult class encapsulates the data used by the navXPIDController to communicate current state to a client of the navXPIDController. |

* Enum Summary

|  |  |
| --- | --- |
| * Enum | * Description |
| * [AHRS.BoardAxis](http://docs.google.com/com/kauailabs/navx/ftc/AHRS.BoardAxis.html) | * Identifies one of the three sensing axes on the navX sensor board. |
| * [AHRS.DeviceDataType](http://docs.google.com/com/kauailabs/navx/ftc/AHRS.DeviceDataType.html) | * The DeviceDataType specifies the type of data to be retrieved from the sensor. |
| * [navXPIDController.navXTimestampedDataSource](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.navXTimestampedDataSource.html) | * The navXTimestampedDataSources specifies the navX-Model device sensor data source type used by the navXPIDController as it's input data source. |
| * [navXPIDController.navXUntimestampedDataSource](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.navXUntimestampedDataSource.html) | * The navXUntimestampedDataSources specifies the navX-Model device sensor data source type used by the navXPIDController as it's input data source. |
| * [navXPIDController.TimestampType](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.TimestampType.html) |  |
| * [navXPIDController.ToleranceType](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.ToleranceType.html) | * The ToleranceType enumeration defines the type of tolerance to be used by the navXPIDController to determine whether the controller is "on\_target". |

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