de.marioehkart.marioehkarte.Rail Class Reference

A **Rail** object represents one lane from a Carrera rail. More...

Public Member Functions

	Rail (double l, double r)
	constructor of a rail object
Coordinates	**coordinates** (double position)
	Get the relative position on a rail in relation to the lane start point.
double	**length** ()
	Get the length of the rail.

Static Public Member Functions

static **Rail**	**fromString** (String rail)
	Parse **Rail** type from String.

Static Public Attributes

static **Rail**	**straight_standard** = new **Rail**(345, 0)
	standard straight 345 mm
static **Rail**	**straight_standard_third** = new **Rail**(115, 0)
	1/3 standard straight 115 mm
static **Rail**	**straight_standard_fourth** = new **Rail**(86.3, 0)
	1/4 standard straight 86.3 mm
static **Rail**	**curve_R1_30_inner** = new **Rail**(129.6, 247.5)
	left curve R1 30° inner lane
static **Rail**	**curve_R1_30_inner_** = new **Rail**(129.6, -247.5)
	right curve R1 30° inner lane
static **Rail**	**curve_R1_30_outer** = new **Rail**(181.4, 346.5)
	left curve R1 30° outer lane
static **Rail**	**curve_R1_30_outer_** = new **Rail**(181.4, -346.5)
	right curve R1 30° outer lane
static **Rail**	**curve_R1_60_inner** = new **Rail**(259.2, 247.5)
	left curve R1 60° inner lane
static **Rail**	**curve_R1_60_inner_** = new **Rail**(259.2, -247.5)
	right curve R1 60° inner lane
static **Rail**	**curve_R1_60_outer** = new **Rail**(362.9, 346.5)
	left curve R1 60° outer lane
static **Rail**	**curve_R1_60_outer_** = new **Rail**(362.9, -346.5)
	right curve R1 60° outer lane
static **Rail**	**curve_R2_30_inner** = new **Rail**(233.3, 445.5)
	left curve R2 30° inner lane
static **Rail**	**curve_R2_30_inner_** = new **Rail**(233.3, -445.5)
	right curve R2 30° inner lane
static **Rail**	**curve_R2_30_outer** = new **Rail**(285.1, 544.5)

left curve R2 30° outer lane

static **Rail**	**curve_R2_30_outer_**	= new **Rail**(285.1, -544.5)	

right curve R2 30° outer lane

static **Rail**	**curve_R3_30_inner**	= new **Rail**(336.9, 643.5)	

left curve R3 30° inner lane

static **Rail**	**curve_R3_30_inner_**	= new **Rail**(336.9, -643.5)	

right curve R3 30° inner lane

static **Rail**	**curve_R3_30_outer**	= new **Rail**(388.8, 742.5)	

left curve R3 30° outer lane

static **Rail**	**curve_R3_30_outer_**	= new **Rail**(388.8, -742.5)	

right curve R3 30° outer lane

static **Rail**	**curve_R4_15_inner**	= new **Rail**(220.3, 841.5)	

left curve R4 15° inner lane

static **Rail**	**curve_R4_15_inner_**	= new **Rail**(220.3, -841.5)	

right curve R4 15° inner lane

static **Rail**	**curve_R4_15_outer**	= new **Rail**(246.2, 940.5)	

left curve R4 15° outer lane

static **Rail**	**curve_R4_15_outer_**	= new **Rail**(246.2, -940.5)	

right curve R4 15° outer lane

Detailed Description

A **Rail** object represents one lane from a Carrera rail.

All rail types that are actually implemented in the MariööööhhKart_v2 project are defined static. The following rules are decisive for the naming of the rails:

Straights

main name	description
straight_standard	345 mm
straight_standard_third	115 mm
straight_standard_fourth	86.3 mm

Curves

Carrera radius	radius in mm
R1	396 mm
R2	594 mm
R3	792 mm
R4	990 mm

l curve_R1_30_ l inner l R1, 30°, left l l l inner_ l R1, 30°, rightl

Author

Joel Bommeli

Version

v1.1.1

Date

2025-07-02

Constructor & Destructor Documentation

◆ Rail()

de.marioehkart.marioehkarte.Rail.Rail (double l,

double r)

constructor of a rail object

Parameters

l length in mm of the lane

r radius in mm of the lane. If it's a straight lane, r= 0

Member Function Documentation

◆ coordinates()

Coordinates de.marioehkart.marioehkarte.Rail.coordinates (double position)

Get the relative position on a rail in relation to the lane start point.

Parameters

position Linear position in mm in relation to the start point of the rail.

Returns

Returns the relative position in **Coordinates** format in relation to the start point of the rail.

◆ fromString()

static **Rail** de.marioehkart.marioehkarte.Rail.fromString (String rail) `static`

Parse **Rail** type from String.

Parameters

rail Name of the specified rail

◆ length()

double de.marioehkart.marioehkarte.Rail.length ( )

Get the length of the rail.

Returns

length of the rail in mm

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

- /Users/bmmli.jl/Dokumente/PlatformIO/Projects/Marioehh-
  Kart_Interface/MarioehKartServer/MarioehKarte/src/de/marioehkart/marioehkarte/**Rail.java**