Package 'tcxr'

March 12, 2025

Title Parse and Analyze TCX Files

Version 0.1.0

Description Framework provides functions to parse 'Training Center XML (TCX)' files
and extract key activity metrics such as total distance, total time, calories burned,
maximum altitude, and power values (watts). This package is useful for analyzing workout
and training data from devices that export 'TCX' format.

Depends R (>= 3.5.0)

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Imports XML

Suggests testthat

Encoding UTF-8

RoxygenNote 7.2.3

NeedsCompilation no

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Repository CRAN

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Contents

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parse_lap   *Parse a Lap from a TCX File*

Description

Extracts data from a lap within a TCX file, including time, distance, altitude, speed, power, cadence, and heart rate.

Usage

```
parse_lap(lap)
```

Arguments

lap   An XML node representing a lap in a TCX file.

Value

A dataframe containing the lap metrics.

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parse_trackpoint   *Parse a Trackpoint from a TCX File*

Description

Extracts data from a trackpoint, including altitude, distance, speed, power, cadence, and heart rate.

Usage

```
parse_trackpoint(trackpoint)
```

Arguments

trackpoint   An XML node representing a trackpoint.

Value

A list of parsed trackpoint metrics.

TCXRead   *Read and Parse a TCX File*

Description

Parses a TCX file to extract key activity metrics such as speed, distance, time, altitude, power, cadence, heart rate, and activity type.

Usage

```
TCXRead(file_path)
```

Arguments

file_path   A character string specifying the path to the TCX file.

Value

A list containing the computed activity metrics, including the activity type.

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