

Package: tcxr (via r-universe)

March 13, 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

LazyData true

RoxygenNote 7.2.3

NeedsCompilation no

Config/pak/sysreqs libxml2-dev

Repository <https://firefly-cpp.r-universe.dev>

RemoteUrl <https://github.com/firefly-cpp/tcxr>

RemoteRef HEAD

RemoteSha 854c3c9749ebfef8c13a0e11bfa449ca0a3d556c

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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.

`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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