# Package 'babyTimeR'

January 16, 2025

Junuary 10, 2025		
Type Package		
Title Parse Output from 'BabyTime' Application		
Version 0.1.0		
Author Dann Hekman [aut, cre]		
Maintainer Dann Hekman <dannhek@gmail.com></dannhek@gmail.com>		
<b>Description</b> 'BabyTime' is an application for tracking infant and toddler care activities like sleeping, eating, etc. This package will take the outputted .zip files and parse it into a usable list object with cleaned data. It handles malformed and incomplete data gracefully and is designed to parse one directory at a time.		
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<b>Depends</b> dplyr (>= 1.1.4), glue (>= 1.8.0), janitor (>= 2.2.0), lubridate (>= 1.9.3), methods (>= 4.4.1), R (>= 4.4.0), readr (>= 2.1.5), snakecase (>= 0.11.1), stringr (>= 1.5.1)		
Imports utils		
Suggests testthat (>= 3.0.0)		
Config/testthat/edition 3		
Encoding UTF-8		
Language en-US		
LazyData true		
RoxygenNote 7.3.2		
NeedsCompilation no		
Repository CRAN		
<b>Date/Publication</b> 2025-01-16 10:30:05 UTC		
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bt\_list\_db

Sample 'BabyTime' Data List Database

#### **Description**

Sample output from 'read\_one\_bt\_activity\_file' and 'clean\_bt\_list\_db'. A "Clean BT List DB" object.

## Usage

```
bt_list_db
```

#### **Format**

```
## 'bt_list_db' A "Clean BT List DB" object.
```

**pumping** Breast Pumping Data (Data Frame; 3 obs. 8 variables)

pee Diaper Change Data (Data Frame; 1 obs. 5 variables)

pumped\_milk Drinking Breast Milk from Bottle Data (Data Frame; 3 obs. 6 variables)

medicine Medications Given Data (Data Frame; 1 obs. 6 variables)

baby\_food Data on Eating Solids (Data Frame; 1 obs. 6 variables)

sleep Sleep Data. Includes both Night and Daytime Sleep (Data Frame; 5 obs. 5 variables)

**breastfeeding** Breast Feeding Data (Data Frame; 4 obs. 7 variables)

#### **Source**

Synthetic Data used to test this package. Based loosely on author's personal data.

clean\_bt\_list\_db

Clean BabyTime List DB File

#### **Description**

Clean BabyTime List DB File

#### Usage

```
clean_bt_list_db(list_db)
```

#### **Arguments**

list\_db

output from 'read\_one\_bt\_activity\_file'

#### Value

```
a Clean BT List DB object
```

#### **Examples**

```
data_dir <- system.file('extdata', package = 'babyTimeR')
baby_dann_db <- read_one_bt_activity_file(
  infile = file.path(data_dir, 'activity_Dann_202411.txt')
) |>
    clean_bt_list_db()
names(baby_dann_db)
```

```
combine_clean_bt_list_dbs
```

Combine two 'BabyTime' List Databases (DBs)

#### **Description**

Generally not needed if you parse all files at once, but can be useful if combining data extracted at multiple times or across multiple directories

#### Usage

```
combine_clean_bt_list_dbs(la, lb)
```

#### **Arguments**

```
la a Clean BT List DB objectlb another Clean BT List DB object
```

#### Value

a Clean BT List DB object that contains all elements from 'la' and 'lb'

#### **Examples**

```
data_dir <- system.file('extdata', package = 'babyTimeR')
baby_dann_db_nov <- read_one_bt_activity_file(
    infile = file.path(data_dir, 'activity_Dann_202411.txt'))
) |>
clean_bt_list_db()
baby_dann_db_dec<- read_one_bt_activity_file(
    infile = file.path(data_dir, 'activity_Dann_202412.txt'))
) |>
clean_bt_list_db()
baby_dann_db <- combine_clean_bt_list_dbs(
    baby_dann_db_nov,
    baby_dann_db_dec
)</pre>
```

process\_one\_directory Process One Directory of 'BabyTime' Activity Files

## Description

Only works with with .zip files

#### Usage

```
process_one_directory(directory, remove_txts = TRUE, verbose = TRUE)
```

#### Arguments

directory with activity files in it

remove\_txts boolean. whether to remove txt files before processing

verbose boolean. print out processing details?

#### Value

Clean BT List DB object (and also write it to the 'out' RDS file)

#### **Examples**

```
data_dir <- system.file('extdata', package = 'babyTimeR')
if (file.exists('parsed_data.RDS')) {
    baby_dann_db <- readRDS('parsed_data.RDS')
} else {
    baby_dann_db <- process_one_directory(
        directory = data_dir,
        remove_txts = FALSE
    )
}</pre>
```

```
read_one_bt_activity_file
```

Read One 'BabyTime' Activity File

# Description

Read line-by-line and parse into a "database" in a list.

# Usage

```
read_one_bt_activity_file(infile, list_db = NULL, verbose = FALSE)
```

# Arguments

infile	a .zip or .txt file with the format activity_BabyName_yyyymm as the 'Baby-Time' app exports data.
list_db	a 'Raw BT List DB' object on which to append data. If none exists, this will create a new 'Raw BT List DB' object.
verbose	whether or not to write out progress messages.

#### Value

```
a populated 'Raw BT List DB' object
```

# Examples

```
data_dir <- system.file('extdata', package = 'babyTimeR')
baby_dann_db <- read_one_bt_activity_file(
  infile = file.path(data_dir, 'activity_Dann_202411.txt')
) |>
    clean_bt_list_db()
names(baby_dann_db)
```

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