

# Package: babyTimeR (via r-universe)

June 2, 2026

**Type** Package

**Title** Parse Output from 'BabyTime' Application

**Version** 0.1.0

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**Description** '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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**Depends** 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

**Config/pak/sysreqs** libicu-dev libx11-dev

**Repository** <https://dannhek.r-universe.dev>

**Date/Publication** 2025-01-15 01:23:01 UTC

**RemoteUrl** <https://github.com/dannhek/babytimer>

**RemoteRef** HEAD

**RemoteSha** aecc50e90e3657d90925ae11ebc0a0efa9109921

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bt_list_db	<i>Sample 'BabyTime' Data List Database</i>
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### 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.

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clean_bt_list_db	<i>Clean BabyTime List DB File</i>
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**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)
```

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combine_clean_bt_list_dbs	<i>Combine two 'BabyTime' List Databases (DBs)</i>
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**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 object  
lb                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
)
```

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

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**Description**

Only works with with .zip files

**Usage**

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

**Arguments**

directory	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
    )
}
```

---

```
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

<code>infile</code>	a .zip or .txt file with the format activity_BabyName_yyyymm as the 'Baby-Time' app exports data.
<code>list_db</code>	a 'Raw BT List DB' object on which to append data. If none exists, this will create a new 'Raw BT List DB' object.
<code>verbose</code>	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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