

Package ‘essentialstools’

March 16, 2026

Title Datasets and Utilities for Essentials of Statistics for the Behavioral Sciences

Version 0.1.2

Description Provides instructional datasets and simple wrapper functions for selected analyses used in 'Essentials of Statistics for the Behavioral Sciences'. The package is intended to support textbook examples by distributing data in a form that is easy for students and instructors to access within R. Current functionality includes packaged datasets and convenience wrappers for functions from 'ez', 'pwr', and 'WebPower' for analysis of variance and statistical power calculations. The package is designed as a companion resource for teaching and learning in introductory and intermediate statistics courses.

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Encoding UTF-8

RoxygenNote 7.3.3

Depends R (>= 3.5)

LazyData true

Imports ez, WebPower, pwr

NeedsCompilation no

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birdRT	<i>Bird reaction time dataset</i>
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Description

A dataset used in the Essentials stats book chapter 3.

Usage

```
birdRT
```

Format

A data frame with the following columns:

Subject Participant identifier (character).

Condition Experimental condition (factor).

ReactionTime Reaction time (numeric).

Source

Imported from D:/data.CSV (original file location on author's machine).

Examples

```
head(birdRT)
```

run_ez_anova	<i>ezANOVA wrapper for Essentials tools</i>
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Description

Convenience wrapper around `ez::ezANOVA()` used in the book.

Usage

```
run_ez_anova(...)
```

Arguments

... Passed to `ez::ezANOVA()`.

Value

The result from `ez::ezANOVA()`.

run_pwr_t_test	<i>pwr.t.test wrapper for Essentials tools</i>
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Description

Convenience wrapper around `pwr::pwr.t.test()`.

Usage

```
run_pwr_t_test(...)
```

Arguments

... Passed to `pwr::pwr.t.test()`.

Value

The result from `pwr::pwr.t.test()`.

Examples

```
run_pwr_t_test(n = NULL,  
              d = 0.5,  
              sig.level = 0.05,  
              power = 0.8,  
              type = "one.sample")
```

run_wp_ttest	<i>webpower t-test wrapper for Essentials tools</i>
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Description

Convenience wrapper around `WebPower::wp.t()` used in the book.

Usage

```
run_wp_ttest(...)
```

Arguments

... Passed to `WebPower::wp.t()`.

Value

The result from `WebPower::wp.t()`.

Examples

```
run_wp_ttest(n1 = 50,  
             d = 0.5,  
             alpha = 0.05,  
             power = NULL,  
             type = "one.sample")
```

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