

# Package ‘naturalsort’

August 30, 2016

**Type** Package

**Title** Natural Ordering

**Version** 0.1.3

**Suggests** testthat

**Date** 2016-08-30

**Author** Kosei Abe

**Maintainer** Kosei Abe <mail@recyclebin.jp>

**Description** Provides functions related to human natural ordering.

It handles adjacent digits in a character sequence as a number so that natural sort function arranges a character vector by their numbers, not digit characters. It is typically seen when operating systems lists file names. For example, a sequence a-1.png, a-2.png, a-10.png looks naturally ordered because  $1 < 2 < 10$  and natural sort algorithm arranges so whereas general sort algorithms arrange it into a-1.png, a-10.png, a-2.png owing to their third and fourth characters.

**License** BSD\_3\_clause + file LICENSE

**BugReports** <https://github.com/kos59125/naturalsort/issues>

**RoxygenNote** 5.0.1

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2016-08-30 12:48:28

## R topics documented:

naturalsort-package . . . . .	2
naturalfactor . . . . .	2
naturalorder . . . . .	2

<b>Index</b>	<b>4</b>
--------------	----------

---

naturalsort-package     *Natural Ordering Sort*

---

**Description**

Provides functions related to natural ordering.

---

naturalfactor             *Natural Ordering Factor*

---

**Description**

naturalfactor creates a factor with levels in natural order.

**Usage**

```
naturalfactor(x, levels, ordered = TRUE, ...)
```

**Arguments**

x	a character vector.
levels	a character vector whose elements might be appeared in x.
ordered	logical flag that determines whether the factor is ordered.
...	arguments that are passed to factor function.

---

naturalorder             *Natural Ordering Sort*

---

**Description**

Natural ordering is a kind of alphanumerical ordering. `naturalorder` returns the order of the argument character #' vector in human natural ascending or descending order. `naturalsort` returns the sorted vector.

**Usage**

```
naturalorder(text, decreasing = FALSE, na.last = TRUE)
```

```
naturalsort(text, decreasing = FALSE, na.last = NA)
```

**Arguments**

<code>text</code>	a character vector to sort.
<code>decreasing</code>	logical.
<code>na.last</code>	logical. If NA, NAs will be removed of the result.

**Value**

For `naturalorder`, the results are indices of vector elements in natural order. For `naturalsort`, the results are sorted vectors.

**Examples**

```
text <- c("a-1.png", "a-2.png", "a-10.png")
print(sort(text))
print(naturalsort(text))
```

# Index

`naturalfactor`, [2](#)  
`naturalorder`, [2](#)  
`naturalsort (naturalorder)`, [2](#)  
`naturalsort-package`, [2](#)