# Examples for the `orgutils` package

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## 1   `toOrg`

`toOrg` is a generic function in the spirit of `toLatex`: it transforms R objects into Org snippets. This is most useful for data frames:

```
> df <- data.frame(numbers = 1:5, row.names = LETTERS[1:5])
> df
```
```
  numbers
A       1
B       2
C       3
D       4
E       5
```

And transformed into Org markup:

```
> require("orgutils")
> toOrg(df)
```
```
| row.names | numbers |
|-----------+---------|
| A         |       1 |
| B         |       2 |
| C         |       3 |
| D         |       4 |
| E         |       5 |
```

Since Org tables are very human-readable, such a display is also useful for plain-text emails or reports.

There are also `toOrg` methods for dates (class `Date`) and times (classes `POSIXct` and `POSIXlt`).

```
> toOrg(Sys.Date())
```
```
<2017-03-21 Tue>
```

```
> toOrg(Sys.time())
```
```
<2017-03-21 Tue 22:22:05>
```

```
> toOrg(Sys.time(), inactive = TRUE)
```
```
[2017-03-21 Tue 22:22:05]
```

## 2 `readOrg`

Suppose you have the following Org file:

```
#+TITLE: My table file

There is text.

#+name: table1
| A | B | C |
|---+---+---|
| 1 | 2 | 3 |
| 4 | 5 | 6 |

And more text.

#+name: table2
| D | E | F |
|---+---+---|
| 1 | 2 | 3 |
| 4 | 5 | X |

And more text.

#+name: table3
| G | H | I |
|---+---+---|
| 5 | 7 | 9 |
| 6 | 8 | 0 |

And more text.
```

To read the second table, say, use `readOrg` and specify the `table.name` argument.

```
> readOrg(filename, table.name = "table2")
```

```
  D E F
1 1 2 3
2 4 5 X
```

```
> toLatex(sessionInfo())
```

- R version 3.3.3 (2017-03-06), x86_64-pc-linux-gnu

- Locale: LC_CTYPE=en_US.UTF-8, LC_NUMERIC=C, LC_TIME=en_GB.UTF-8, LC_COLLATE=C, LC_MONETARY=en_GB.UTF-8, LC_MESSAGES=en_US.UTF-8, LC_PAPER=en_GB.UTF-8, LC_NAME=C, LC_ADDRESS=C, LC_TELEPHONE=C, LC_MEASUREMENT=en_GB.UTF-8, LC_IDENTIFICATION=C

- Base packages: base, datasets, grDevices, graphics, methods, stats, utils

- Other packages: orgutils 0.4-1

- Loaded via a namespace (and not attached): textutils 0.1-6, tools 3.3.3