

Examples for the datetimetools package

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convert_date

Convert dates in numeric external formats (e.g. from MATLAB or Excel) to Date.

```
> convert_date(40000, "excel")
```

```
[1] "2009-07-06"
```

```
> convert_date(725935, "matlab")
```

```
[1] "1987-07-17"
```

convert_tz

Convert a timestamp from one timezone to another.

```
> convert_tz("2016-05-10 12:00:00", "Europe/Berlin", "America/Chicago")
```

```
[1] "2016-05-10 05:00:00 CDT"
```

Business days

See ?business_days.

```
> is_weekend(as.Date("2017-1-5"))
```

```
[1] FALSE
```

```
> next_businessday(as.Date("2017-1-5")) ## there is also 'previous_businessday'
```

```
[1] "2017-01-06"
```

```
> next_businessday(as.Date("2017-1-5"), shift = 2) ## short-hand: 'next_bday'
```

```
[1] "2017-01-09"
```

Guess Timestamp Format

```
> s <- c(" 1999-08-19 10:00",  
        "19.8.1999 10:00",   ## Central-European, e.g. Germany  
        "8/19/99 10:00:00")  ## US
```

```
> guess_datetime(s)
```

```
[1] "1999-08-19 10:00:00 CEST" "1999-08-19 10:00:00 CEST"  
[3] "1999-08-19 10:00:00 CEST"
```

Days of the week

```
> last_weekday(5, as.Date("2017-1-1")) ## last Friday of Jan 2017
```

```
[1] "2017-01-27"
```

```
> nth_weekday(1, as.Date("2017-1-1"), 2) ## second Monday of Jan 2017
```

```
[1] "2017-01-09"
```

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

- R version 3.4.1 (2017-06-30), 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
- Running under: Ubuntu 17.04
- Matrix products: default
- BLAS: /usr/lib/libblas/libblas.so.3.7.0
- LAPACK: /usr/lib/lapack/liblapack.so.3.7.0
- Base packages: base, datasets, grDevices, graphics, methods, stats, utils
- Other packages: datetimeutils 0.2-7
- Loaded via a namespace (and not attached): compiler 3.4.1, tools 3.4.1