Examples for the datetimeutils 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

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 3.3.3 (2017-03-06), $x86_64-w64-mingw32$
 - Locale: LC_COLLATE=C, LC_CTYPE=German_Switzerland.1252, LC_MONETARY=German_Switzerland.1252, LC_NUMERIC=C, LC_TIME=German_Switzerland.1252
 - Base packages: base, datasets, grDevices, graphics, methods, stats, utils
 - Other packages: datetimeutils 0.2-7
 - Loaded via a namespace (and not attached): tools 3.3.3