Dates and Times

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Reading in CSV for Central Park Temps

30 31 30 28 30 31 31 31 30

```
library("readr")
prices <- read_csv("http://richardtwatson.com/data/electricityprices.csv")</pre>
head(prices)
## # A tibble: 6 x 2
    timestamp
                          cost
##
     <dttm>
                         <dbl>
## 1 2010-01-01 00:00:00 6.49
## 2 2010-01-01 01:00:00 5.54
## 3 2010-01-01 02:00:00 6.50
## 4 2010-01-01 03:00:00 6.54
## 5 2010-01-01 04:00:00 5.65
## 6 2010-01-01 05:00:00 6.56
Create a random subset of 10 rows using the code shown below.
library("dplyr")
Generate a random sample of 10 row from the table temps.
sampleprices <- sample_n(prices, 10)</pre>
Manipulating Dates and Times
library("lubridate")
Year
year(sampleprices$timestamp)
## [1] 2014 2014 2013 2010 2011 2014 2015 2014 2015 2011
Month
month(sampleprices$timestamp)
## [1] 4 5 4 2 4 10 12 12 10 11
Day in month
days_in_month(sampleprices$timestamp)
## Apr May Apr Feb Apr Oct Dec Oct Nov
```

Day in week as a number

```
wday(sampleprices$timestamp)
```

```
## [1] 4 1 4 4 3 4 7 5 5 7
```

Day in week as a string

weekdays(sampleprices\$timestamp)

```
## [1] "Wednesday" "Sunday" "Wednesday" "Wednesday" "Tuesday"
## [6] "Wednesday" "Saturday" "Thursday" "Saturday"
```

Hour

hour(sampleprices\$timestamp)

```
## [1] 22 16 22 5 1 9 10 14 5 2
```

Which years are leap years

```
leap_year(sampleprices$timestamp)
```

[1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE