**Information about the cleaned bike sharing data**

Bike sharing systems are new generation of traditional bike rentals where whole process from membership, rental and return has become automatic. Through these systems, users can easily rent a bike from a particular position and return it at another position. Capital Bikeshare system in Washington D.C. is such a system where customers pay either per rental ($1 + $0.05/min) or through an annual membership ($95) to get 45 min/day free (additional minutes costs $0.05/min). This company shares their data online about where and when a bike is picked up and returned as well as which type of payment (member or not). The dataset you will work with have been preprocessed (see how in separate file on canvas) for easier analysis and additional variables have also been added (see descriptions about the variables below). We will analyze daily data from 2011 and 2012. The data material is linked with weather data from the same days in the same city.

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| **Variable name** | **Description** |
| instant | record index |
| dteday | date |
| season | season ("winter", "spring", "summer", "fall") |
| yr | year (2011, 2012) |
| mnth | month ("jan", …, "dec") |
| holiday | "yes" if day is holiday "no" if not (extracted from <http://dchr.dc.gov/page/holiday-schedule>) |
| weekday | day of the week ("mon", …, "sun") |
| workingday | "yes" if day is neither weekend nor holiday, "no" otherwise. |
| weathersit | "clear": Clear, Few clouds, Partly cloudy, Partly cloudy |
| "mist": Mist + Cloudy, Mist + Broken clouds, Mist + Few clouds, Mist |
| "light precipitation": Light Snow, Light Rain + Thunderstorm + Scattered clouds, Light Rain + Scattered clouds |
| "heavy precipitation": Heavy Rain + Ice Pallets + Thunderstorm + Mist, Snow + Fog |
| tempC | Mean temperature in degrees Celsius during the day. |
| feeltempC | Mean perceived temperature (how cold/warm it feels) in degrees Celsius. |
| hum | Mean humidity during the day |
| windspeed | Mean wind speed during the day in m/s |
| nonmember | Number of rentals from non-members during the day |
| member | Number of rentals from members during the day |
| total | Total number of rentals during the day |

The original data sources are <http://capitalbikeshare.com/system-data> and [http://www.freemeteo.com](http://www.freemeteo.com/).