Dataset description

This document describes the information about parking data captured by parking sensors.

It contains data at sector level by hours from the first 6 months of 2017.

### Columns description

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| * *Time*: Local time, frequency in hours. * *Sector\_id*: Sector id * *Total\_occupancy\_events*: Number of parking occupancy events per hour. * *Total\_free\_events*: Number of parking free events per hour. * *Total\_full\_events*: number of times that the sector has become completely full. * *Occupation\_per\_hour*: Length of occupation by hour. * *Is\_holiday*: 0 if not holiday, 1 if holiday * *Num\_sensors*: Sector number of sensors. * *Sector\_latitude*: Sector latitude. Geolocalization. * *Sector\_longitude*: Sector longitude. Geolocalization. * *Occupancy\_length\_0\_5\_min*: Number of occupancy lengths that lasted less than 5 minutes. * *Occupancy\_length\_5\_10\_min*: Number of occupancy lengths that lasted between 5 and 10 minutes. * *Occupancy\_length\_10\_30\_min*: Number of occupancy lengths that lasted between 10 and 30 minutes. * *Occupancy\_length\_30\_60\_min*: Number of occupancy lengths that lasted between 30 and 60 minutes. * *Occupancy\_length\_1\_2\_hour*: Number of occupancy lengths that lasted between 1 and 2 hours. * *Occupancy\_length\_2\_4\_hour*: Number of occupancy lengths that lasted between 2 and 4 hours. * *Occupancy\_length\_4\_8\_hour*: Number of occupancy lengths that lasted between 4 and 8 hours. * *Occupancy\_length\_8\_24\_hour*: Number of occupancy lengths that lasted between 8 and 24 hours. * *Occupancy\_length\_days*: Number of occupancy lengths that lasted for days. * *Free\_length\_0\_5\_min*: Number of free lengths that lasted less than 5 minutes. * *Free\_length\_5\_10\_min*: Number of free lengths that lasted between 5 and 10 minutes. * *Free\_length\_10\_30\_min*: Number of free lengths that lasted between 10 and 30 minutes. * *Free\_length\_30\_60\_min*: Number of free lengths that lasted between 30 and 60 minutes. * *Free\_length\_1\_2\_hour*: Number of free lengths that remained free and lasted between 1 and 2 hours. * *Free\_length\_2\_4\_hour*: Number of free lengths that remained free and lasted between 2 and 4 hours. * *Free\_length\_4\_8\_hour*: Number of free lengths that remained free and lasted between 4 and 8 hours. * *Free\_length\_8\_24\_hour*: Number of free lengths that remained free and lasted between 8 and 24 hours. * *Free\_length\_days*: Number of free lengths that lasted for days. * *ApparentTemperature*: Temperature as perceived by humans (Fahrenheit). cloudCover: Cloud coverage. * *dewPoint*: The atmospheric temperature (varying according to pressure and humidity) below which water droplets begin to condense and dew can form. * *Humidity*: Mass of water vapour present in a given volume or mass of air * *precipAccumulation*: Accumulation by precipitations. Quantitative Precipitation Forecast (mm). * *precipIntensity*: Precipitation intensity (mm). * *precipProbability*: Precipitation probability. * *precipType*: Type of precipitation. * *Pressure*: Barometric pressure, force per unit area exerted by an atmospheric column. * *Summary*: A short description about the weather at that hour. * *Temperature*: Temperature (Fahrenheit). * *Time*: Time. * *Visibility*: Distance at which an object or light can be clearly discerned. * *windBearing*: Wind direction (azimuth degrees). * *windSpeed*: Speed of the wind (m/s). |

### Some insights

**Occupancy length:** The time a car has been parked in a space, i.e. how long a car stays in a parking space, since it arrives until it leaves. Occupancy lengths are computed at the end of the period, i.e. when the car leaves.

**Free length**: Time that a parking spot has been free or time between two occupancies for a parking slot. Free lengths are computed at the end of the period, i.e. when a car enters and the space stops being free.

**About disabled sensors:** Events happened while a sensor is disabled are not counted.