# Restaurant Visitor Forecasting

**Team - 7**

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**Data File Descriptions**

This is a relational dataset from two systems. Each file is prefaced with the source (either air\_ or hpg\_) to indicate its origin. Each restaurant has a unique air\_store\_id and hpg\_store\_id. Note that not all restaurants are covered by both systems, and that you have been provided data beyond the restaurants for which you must forecast. Latitudes and Longitudes are not exact to discourage de-identification of restaurants.

1. **air\_reserve.csv (92,378 observations)**

This file contains reservations made in the air system. Note that the reserve\_datetime indicates the time when the reservation was created, whereas the visit\_datetime is the time in the future where the visit will occur.

* air\_store\_id - the restaurant's id in the air system
* visit\_datetime - the time of the reservation
* reserve\_datetime - the time the reservation was made
* reserve\_visitors - the number of visitors for that reservation

1. **hpg\_reserve.csv (2,000,320 observations)**

This file contains reservations made in the hpg system.

* hpg\_store\_id - the restaurant's id in the hpg system
* visit\_datetime - the time of the reservation
* reserve\_datetime - the time the reservation was made
* reserve\_visitors - the number of visitors for that reservation

1. **air\_store\_info.csv(829 observations)**

This file contains information about select air restaurants. Column names and contents are self-explanatory.

* air\_store\_id
* air\_genre\_name
* air\_area\_name
* latitude
* longitude

Note: latitude and longitude are the latitude and longitude of the *area* to which the store belongs

1. **hpg\_store\_info.csv(4,690 observations)**

This file contains information about select hpg restaurants. Column names and contents are self-explanatory.

* hpg\_store\_id
* hpg\_genre\_name
* hpg\_area\_name
* latitude
* longitude

Note: latitude and longitude are the latitude and longitude of the *area* to which the store belongs

1. **store\_id\_relation.csv(150 observations)**

This file allows you to join select restaurants that have both the air and hpg system.

* hpg\_store\_id
* air\_store\_id

1. **air\_visit\_data.csv(252,108 observations)**

This file contains historical visit data for the air restaurants.

* air\_store\_id
* visit\_date - the date
* visitors - the number of visitors to the restaurant on the date

1. **date\_info.csv(517 observations)**

This file gives basic information about the calendar dates in the dataset.

* calendar\_date
* day\_of\_week
* holiday\_flg - is the day a holiday in Japan