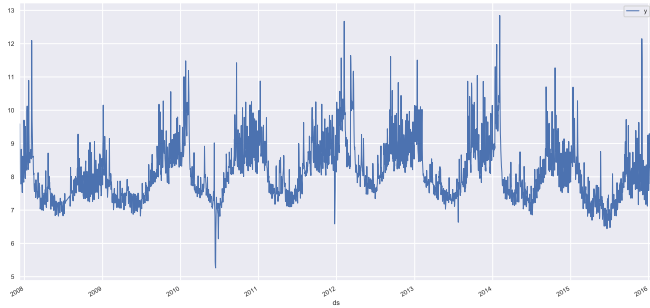


# Simple Model Test

Author

2019-12-18

# Data Plot

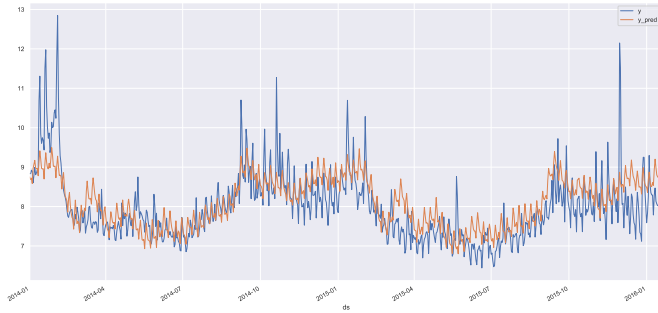


# Train set

- ▶ **train end date** 20131231
- ▶ **seasonality**

|                | monthly  | quarter  | yearly   | weekly   |
|----------------|----------|----------|----------|----------|
| condition_name |          |          |          |          |
| fourier_order  | 12       | 10       | 10       | 3        |
| mode           | additive | additive | additive | additive |
| period         | 30.5     | 91.125   | 365.25   | 7        |
| prior_scale    | 10.0     | 5.0      | 10.0     | 10.0     |

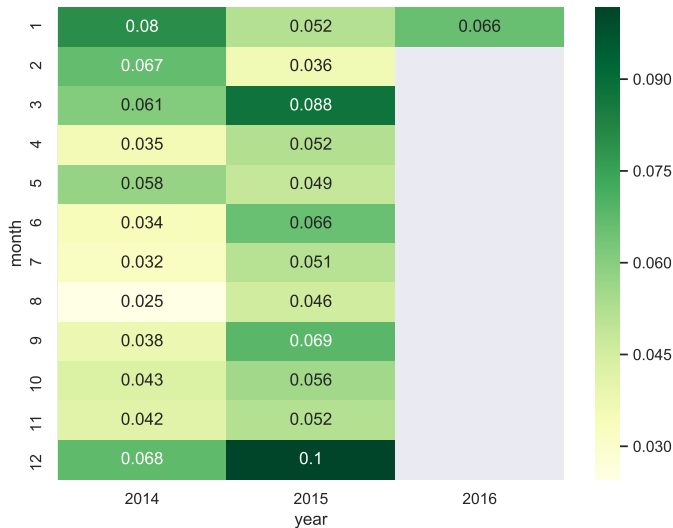
# Prediction Result



# Error analysis

```
def kpi_mape(df, y_true, y_pred):  
    ### mape group by yearmonth  
    df[y_pred] = df[y_pred].clip(0, None)  
    df['diff'] = abs(df[y_true] - df[y_pred])  
    mape_df = df.groupby(['year', 'month']).agg({'diff': 'sum'}).reset_index()  
    mape_df['mape'] = mape_df['diff'] / mape_df[y_true]  
    return mape_df.pivot(index='month', columns='year', values='mape')
```

# Error analysis (plot)



# Note

no holidays added