

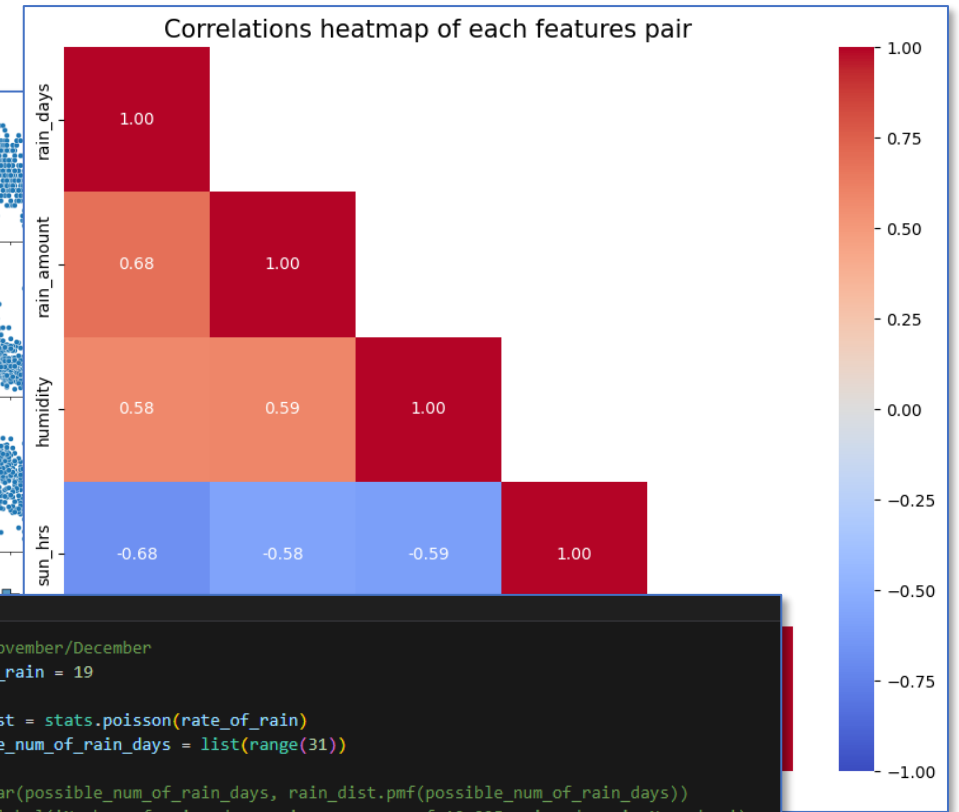
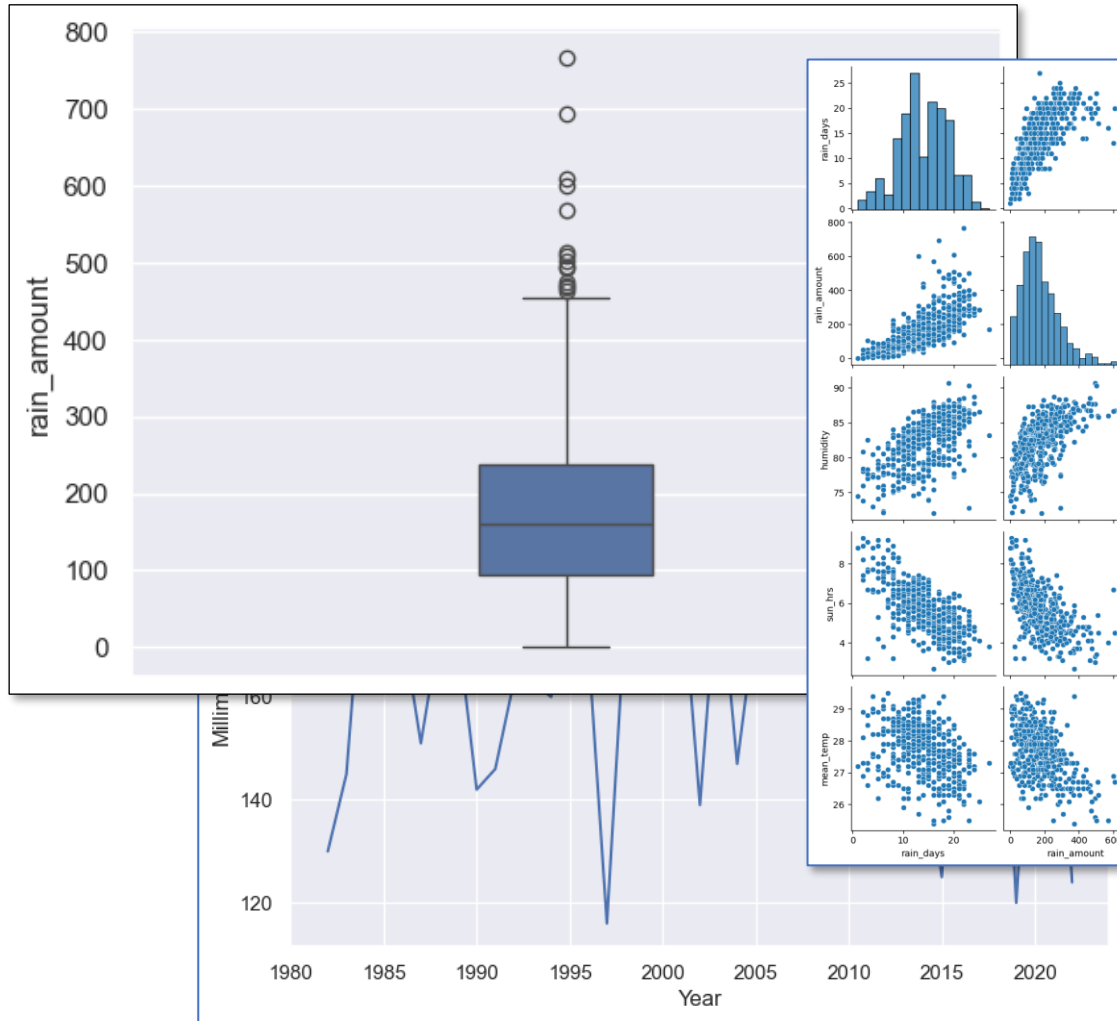
# Singapore Rainfall

Data analysis for travelers

# Problems

- When traveling to Singapore, it seems that visitor will likely to encounter rain whatever the month is.
- This analysis should be able to help those who plan to travel to Singapore to get better preparation and adaptation on their plan for the good traveling experience.

# Procedures



```
# For November/December
rate_of_rain = 19

rain_dist = stats.poisson(rate_of_rain)
possible_num_of_rain_days = list(range(31))

# plt.bar(possible_num_of_rain_days, rain_dist.pmf(possible_num_of_rain_days))
# plt.xlabel('Number of rainy days, given average of 19.025 rainy days in November')
# plt.ylabel('Probability');
✓ 0.0s

# Chance of encounter more than 9 days of rain
1-rain_dist.cdf(8) - (1-rain_dist.cdf(31))
✓ 0.0s

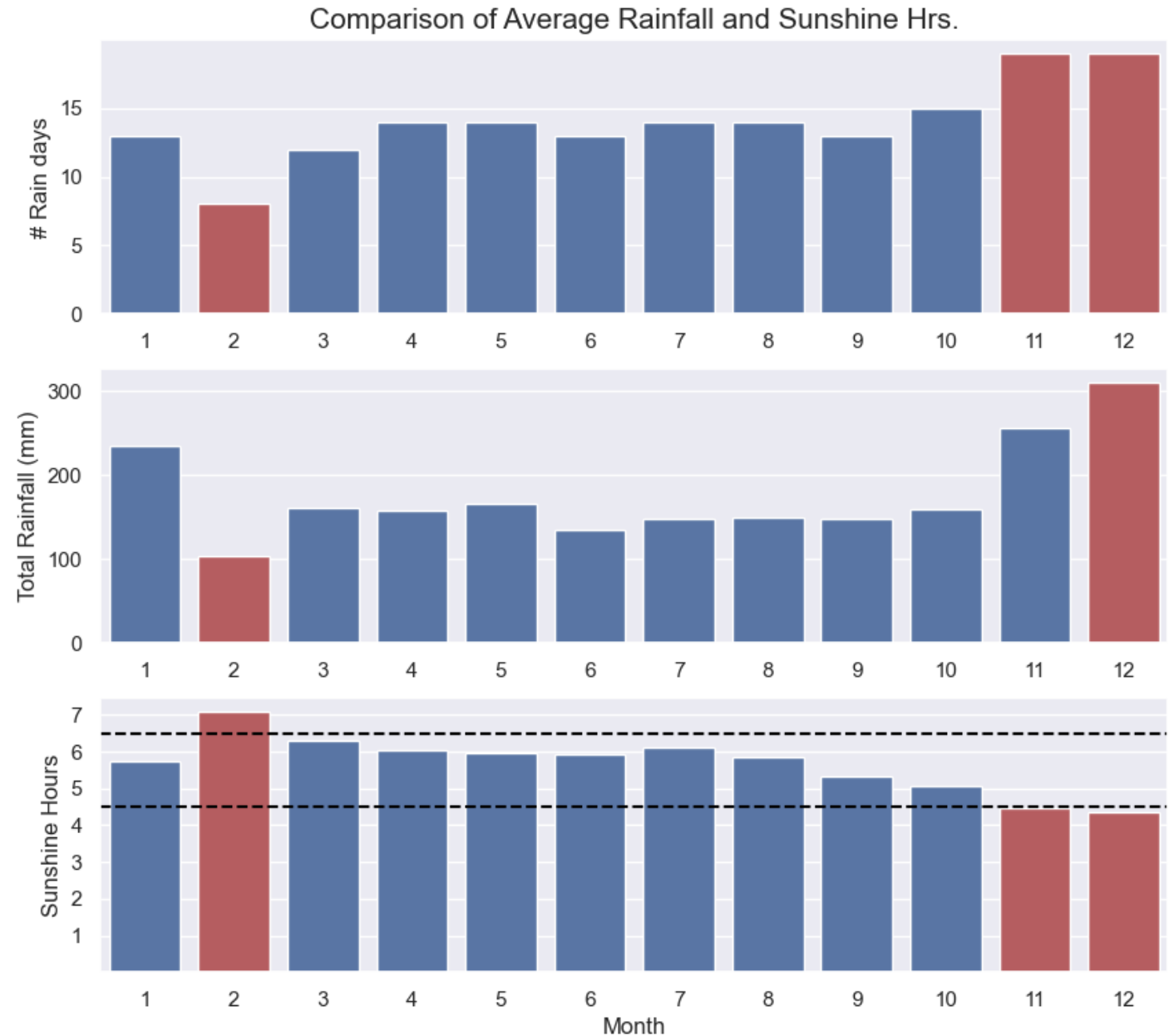
0.992128428625132
```

# Rainfall and sunshine hours

Lowest rain in February

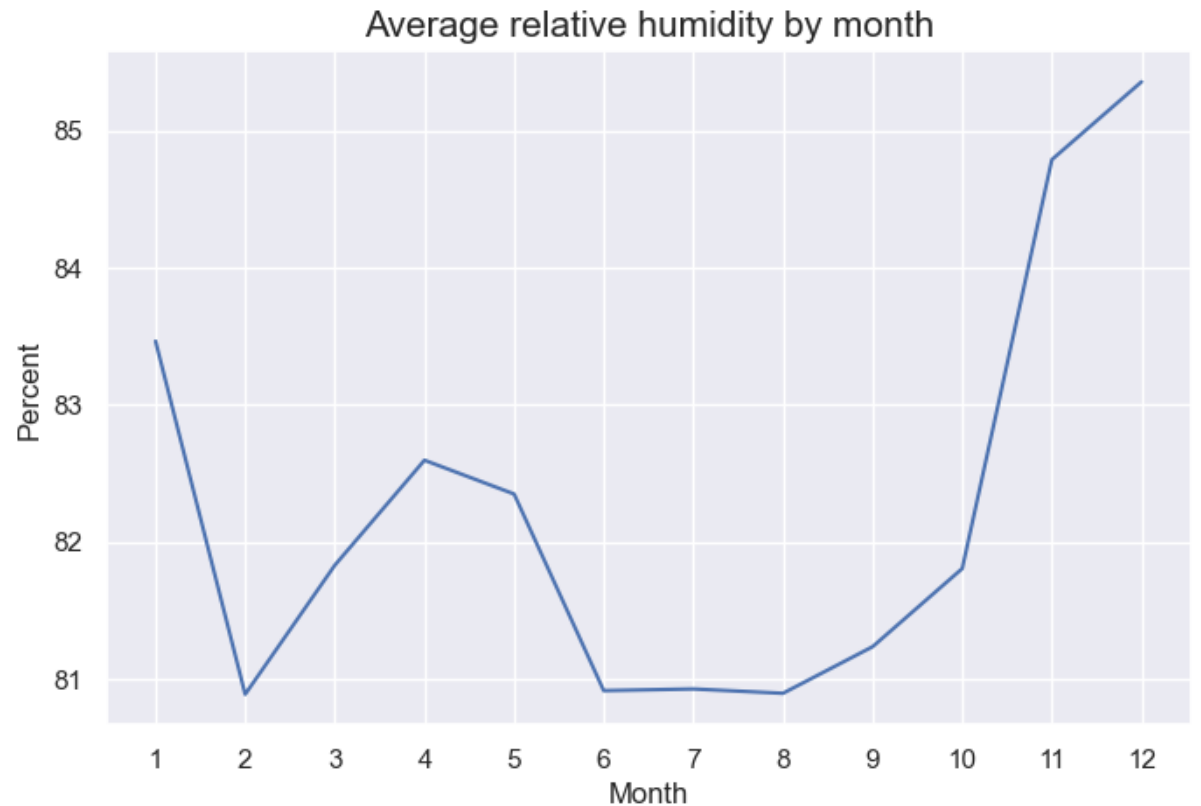
Avoid November and December

The lower the rain, the higher the sunshine hours



# Always high humidity

Expect to feel sticky all day long  
with the all-year high humidity



# November & December: worst case scenario

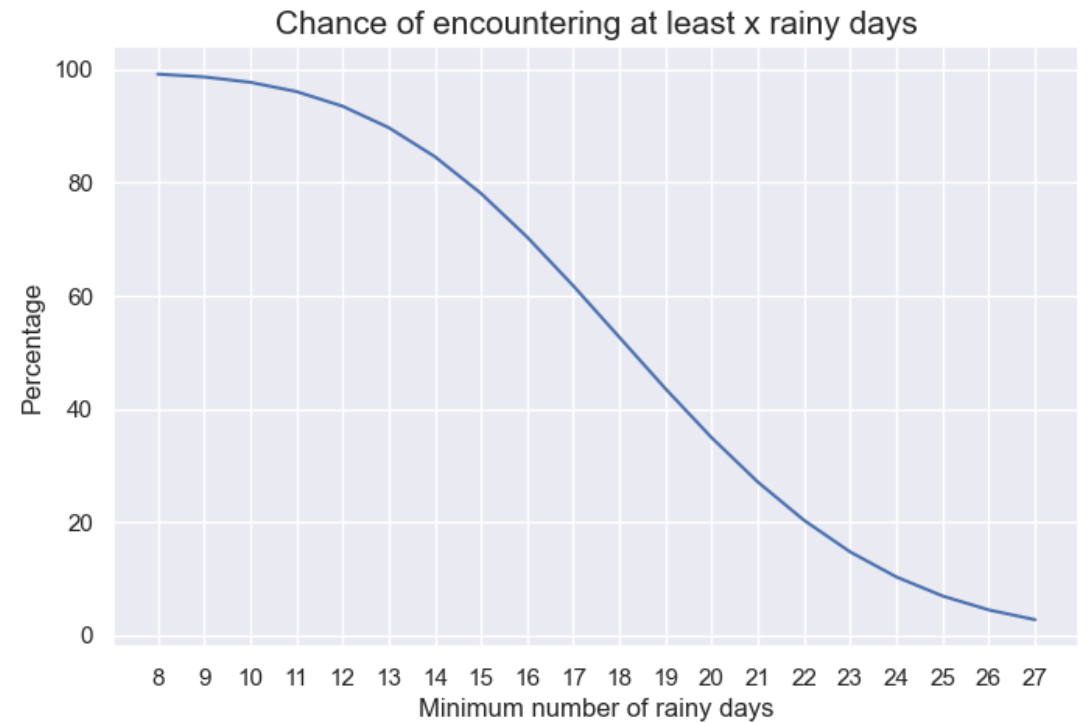
**99%**

chance of 9 rainy days or more

Focuses more or always prepare  
for an indoor alternate plan

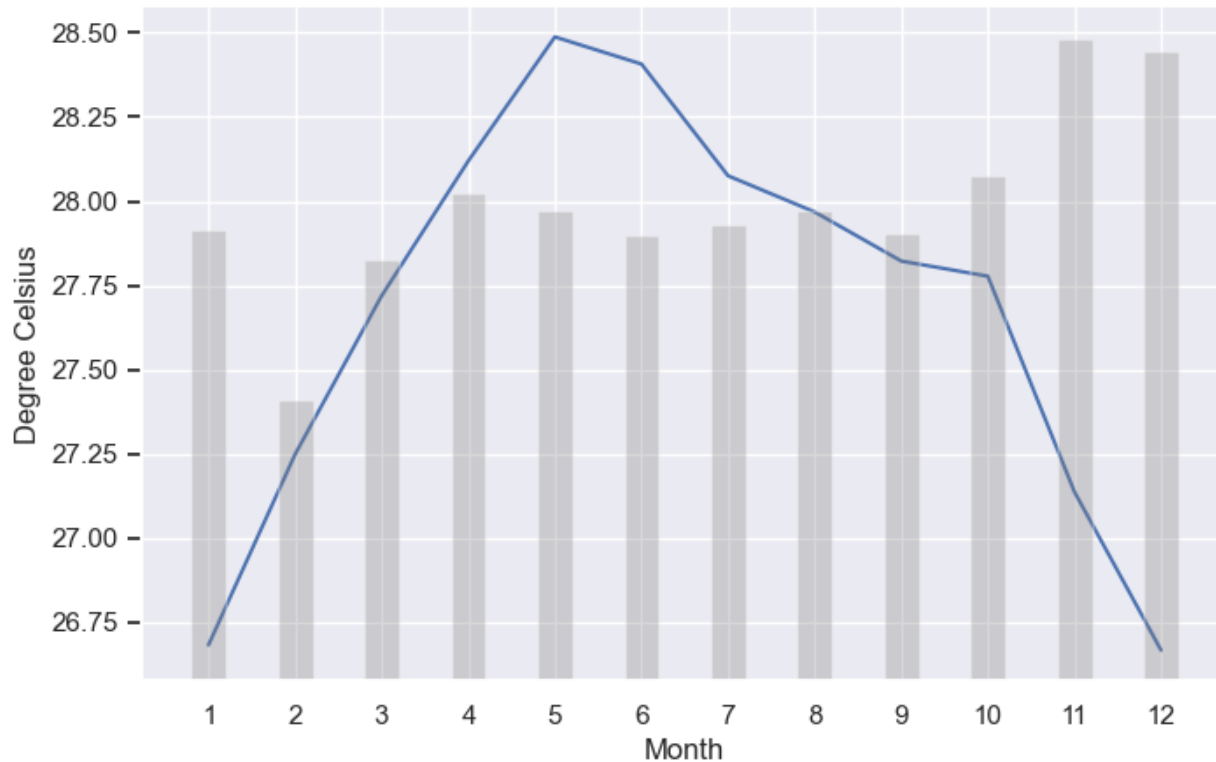
# November & December: worst case scenario

Encountering more than  
18 days is pure luck

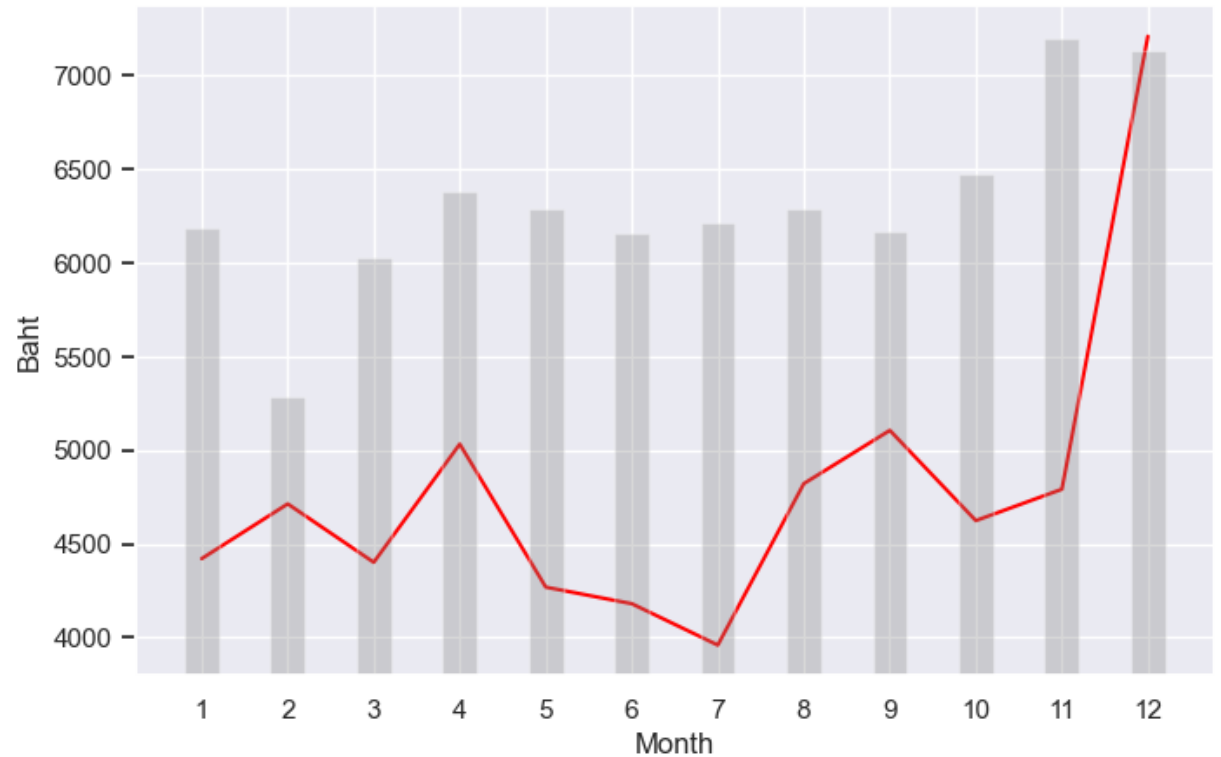


# Other factors to be considered

Average surface temperature by month



Average flight price by month (Bangkok to Singapore, 4 days trip)



\* Some missing data in September



# Busy month: into the big events

