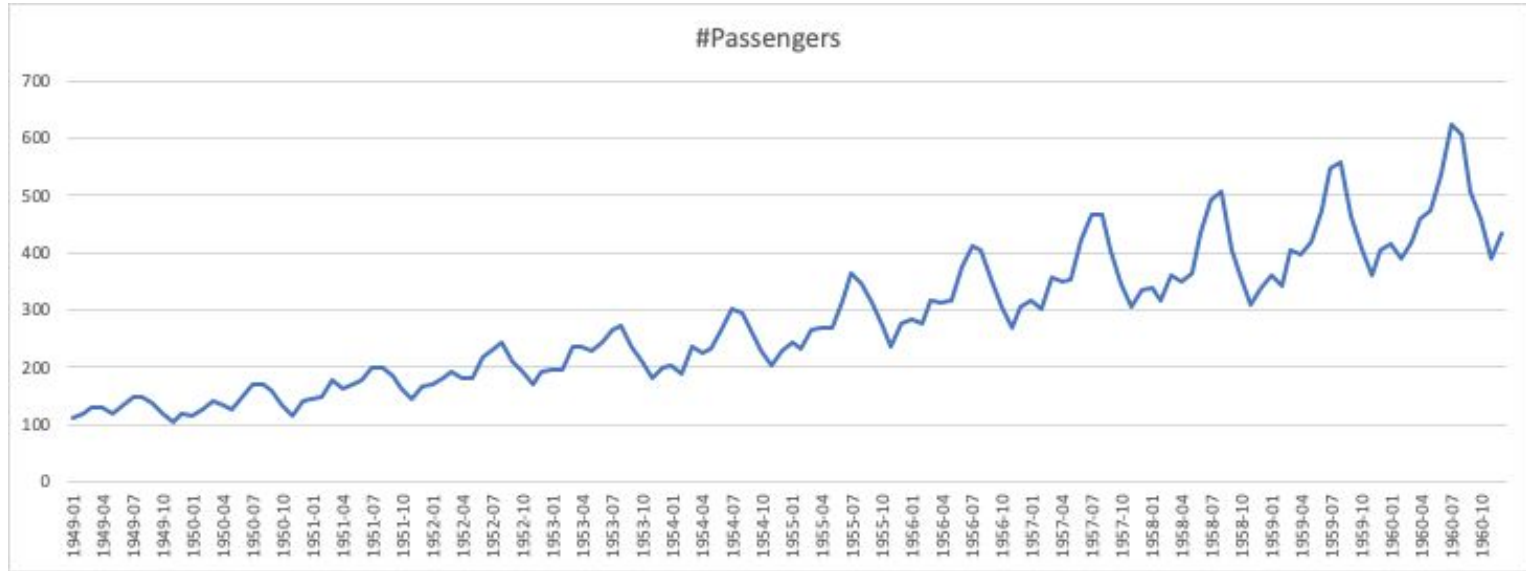


# Time Series Forecasting

# Sequence in Time Series Forecasting



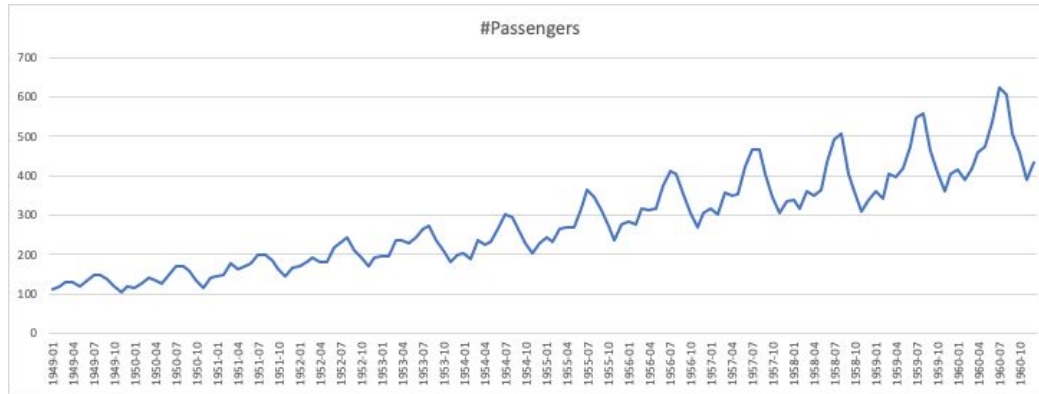
Predicting number of air passengers in US year on year

# Time Series: Definition

- Series of Data Points listed in Time Order

# Time Series: Definition

- Series of Data Points listed in Time Order
- Commonly taken as successive equally spaced points in time



# Understanding the Business



# Understand the Business Problem



# Understand the Business Problem



Large Number of Servers

# Understand the Business Problem



Large Number of Servers

Costs





# Understand the Business Problem

Solution?

# Understand the Business Problem

Solution?

Dynamically allot server based on Web Traffic!

# Data Science Problem

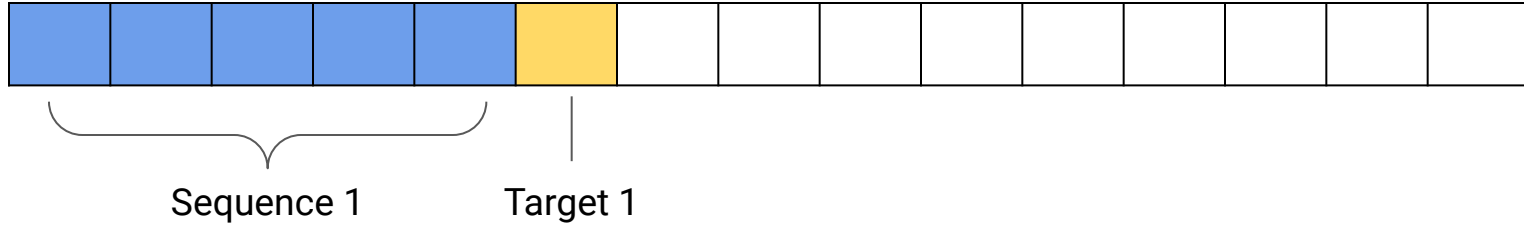
	Hour	Index	Sessions
0		0	1421
1		1	1116
2		2	921
3		3	824
4		4	737

Predict Web Traffic or number of sessions

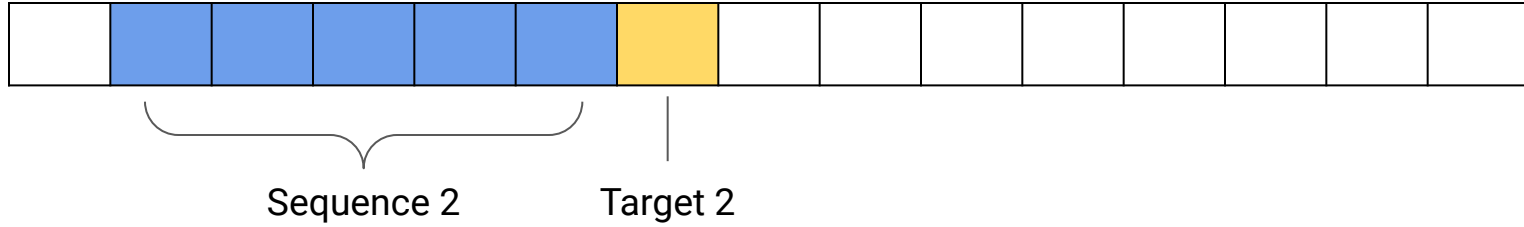
Thank You

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

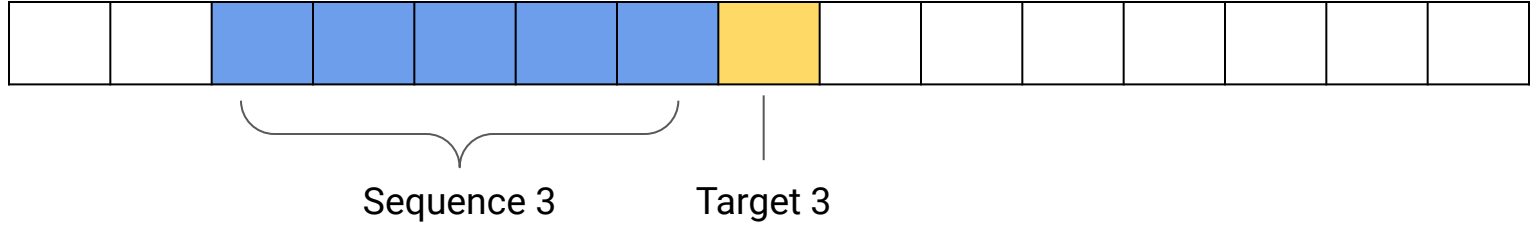
Sequence length = 5



Sequence length = 5

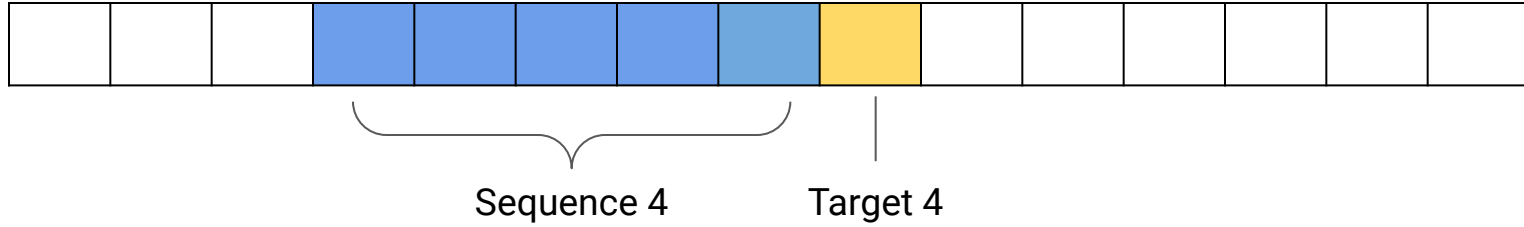


Sequence length = 5





Sequence length = 5



## 3 Dimensions

