Base Patterns

Non-periodic

E.g.: linear, exponential Use: Add trend to time series

Periodic

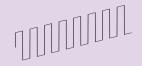
E.g.: Sinusoids, Sawtooth, Square Use: Add cyclical patterns to time series

Random Processes

E.g.: Auto-regressive, Moving Average, etc.

Use: Describe natural time-varying processes

Composition



Additive

Use: Add trend and seasonality



Multiplicative

Use: Amplify seasonality by trend

Sequential

Use: Simulate phase shifts

Noise and Anomalies Noise

White Noise

Use: Add stationary randomness



Red Noise

Use: Add nonstationary randomness



Anomalies

Flip

Reverse the time series



Speed-up/down

Increase or decrease frequency of time series



Cut-off

Simulates sensor drop-off

