

# Prometheus Cheatsheet

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## 1 PROMETHEUS TSDB

**Prometheus TSDB** is a time series database designed for storing and querying time series data, particularly metrics data collected from various sources.

### 1.1 HEAD BLOCK

**Head block** is the in-memory storage component of Prometheus TSDB that holds the most recent time series data before it is flushed to disk.

## 2 PROMQL

**promQL** is the query language used to query metrics stored in Prometheus.

PromQL queries can evaluate to one of four types of results:

- Instant vector: A set of time series containing a single sample for each time series, all sharing the same timestamp.
- Range vector: A set of time series containing a range of data points over time for each time series.
- Scalar: A single numerical value.
- String: A single string value.