

Chronomancer: Using Cortex to Control Time Between Series

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Definitions

- **Prometheus:** Automatic generator of rewrite rule questions
- **Cortex:** Multi-tenant and horizontally scalable Prometheus as a service
- **Chronomancy:** A school of magic involving supernatural manipulation of time
- **Chronomancer:** An individual who can manipulate time
- **Time:** ...

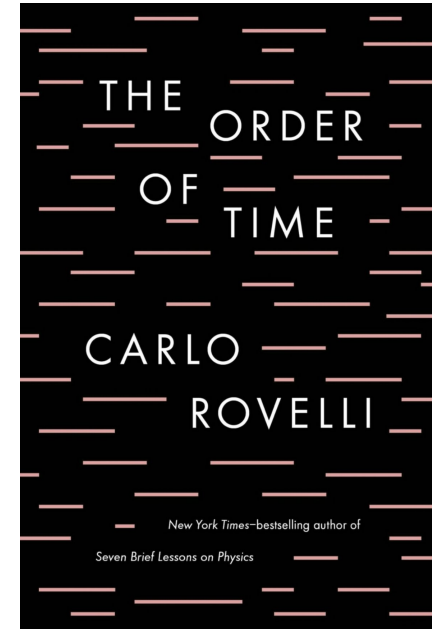


Things About Time

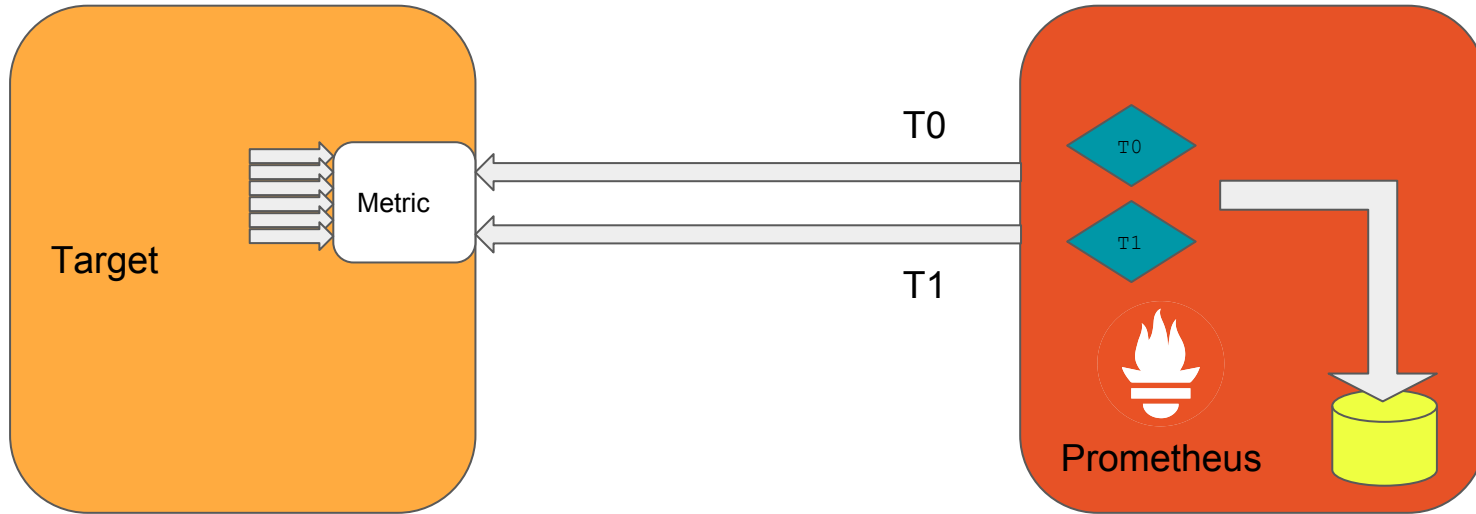
- Time flows faster/slower based on elevation
- There is no one shared universal “now”

Time, as we know it is wholly a construct of the evolution of the human brain.

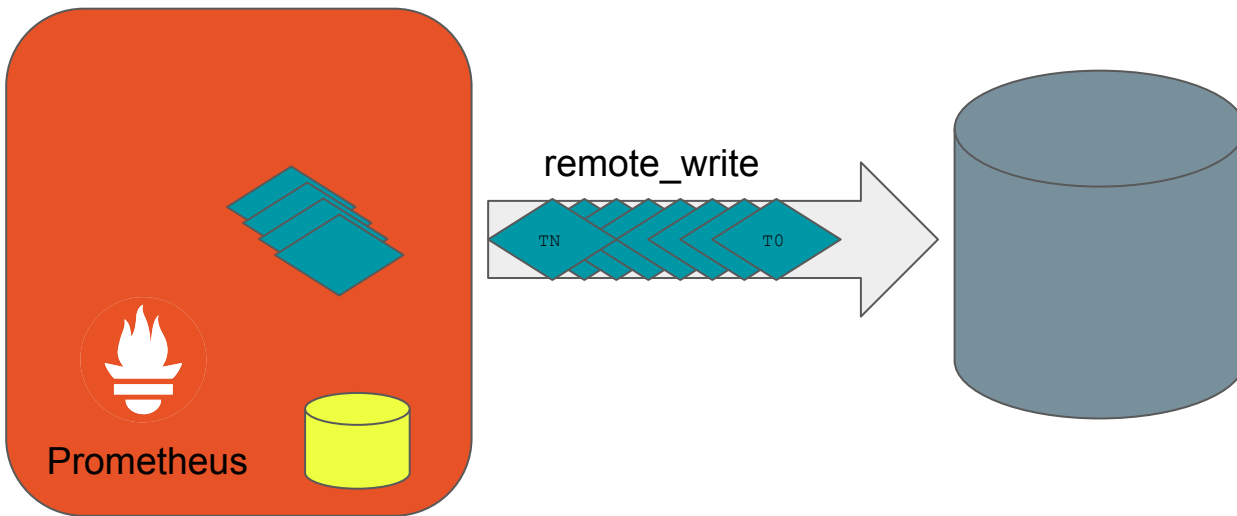
Why should Prometheus be any different?



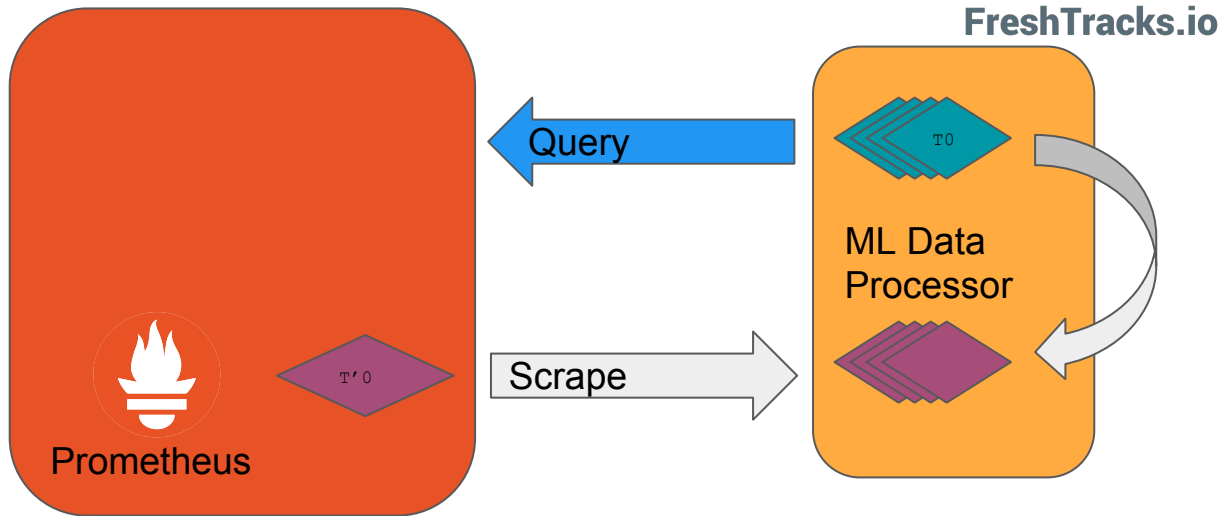
Time Begins at the Scrape



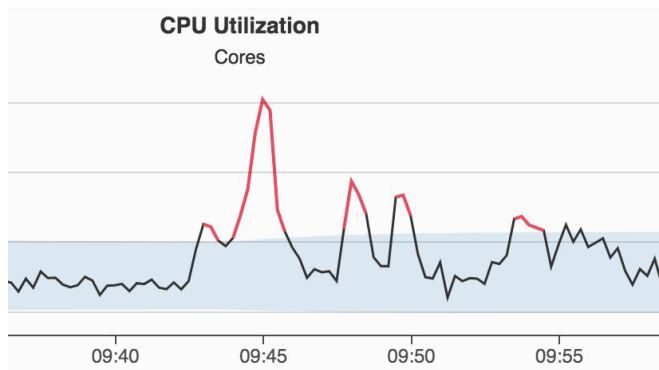
Timestamp Preserved in Remote Write



Time Out of Sync

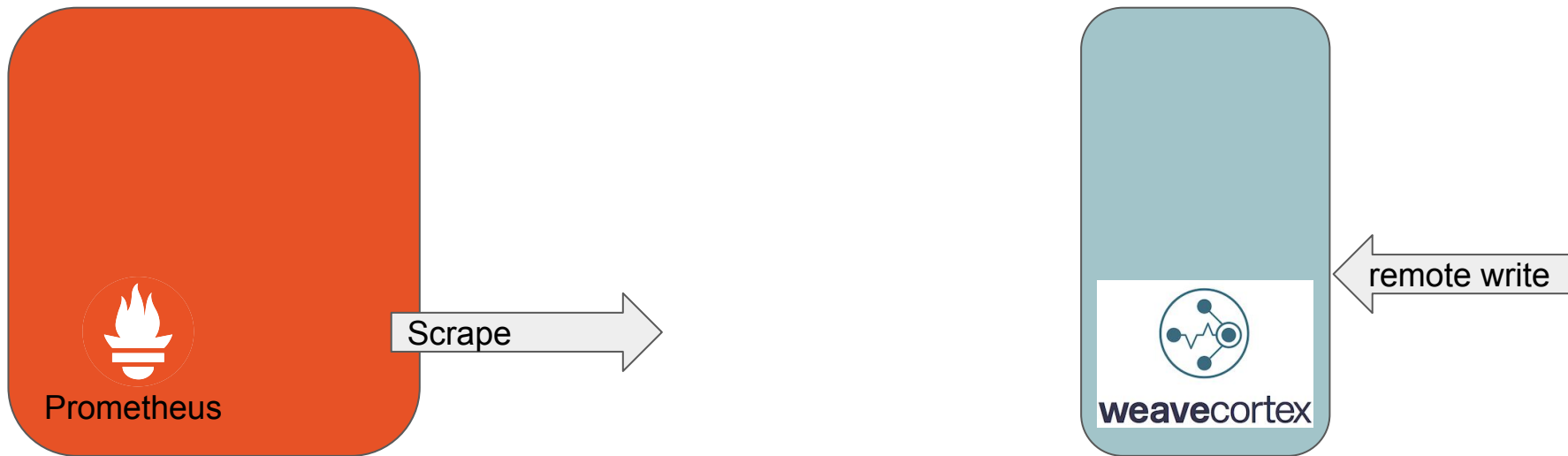


Series timestamp is now scrape interval + processing time

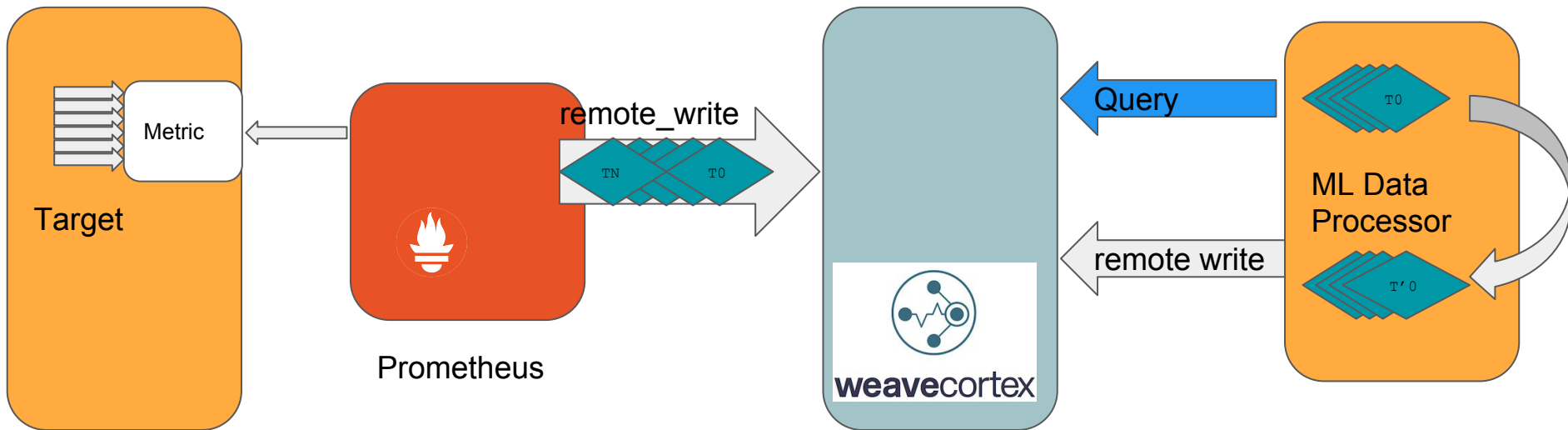


Getting Data in (and hence controlling time)

- For Prometheus, scrape is the only option
- For Cortex, push is the only way



Time Out of Sync





Thanks

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