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# Laravel Cache: Atomic Lock

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# Overview

## Managing Locks

- Instantiating lock object
- Lock availability
- Release Lock
- LockTimeoutException

## Managing Locks Across Processes

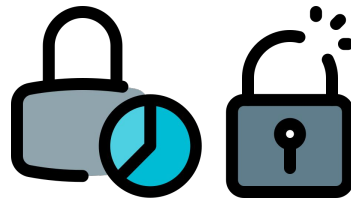
- Lock owner
  - Lock re-instantiate
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# Managing Lock

## What's the atomic lock

- Lock purpose
  - Race condition : who wins or loses
- Instantiate lock : by cache service object (helper or facade)
- Acquire an atomic lock : block or ignore
- Lock Availability : available or not
- Release the lock : after closure or manually
- Block other processes



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# Managing Locks



## Instantiating lock object

- method: `acquire`
  - method: `get`
  - method: `release`
  - release by callback !
  - method: `block`
  - Exception: `LockTimeoutException`
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# Managing Locks Across Processes

## Concepts

- acquire a lock in one process and release it in another process
  - AcquireLock Console Process 
  - ReleaseLock Console Process 
- owner token for restore lock
- re-instantiate the lock
- release vs force release