

Mutex

```
public function acquire(string $name, int $timeout = 0, int $expire = 30): bool
    if ($this->acquireLock($name, $timeout, $expire)) {
        $this->locks[] = $name;
        return true;
    return false;
protected function acquireLock(string $name, int $timeout, int $expire): bool
    $value = md5( str: $name . random_int(0, PHP_INT_MAX));
    $waitTime = 0;
    sarguments = [sname, svalue, 'NX', 'PX', sexpire * 1000];
    while (!$this->redis->rawCommand( command: 'SET', ...$arguments)) {
        $waitTime++;
        if ($waitTime > $timeout) {
            return false;
        sleep( seconds: 1);
    $this->lockValues[$name] = $value;
    return true;
```



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```
public function release(string $name): bool
   if ($this->releaseLock($name)) {
        $index = array_search($name, $this->locks, strict: true);
       if ($index !== false) {
            unset($this->locks[$index]);
        return true;
    return false;
protected function releaseLock(string $name): bool
    $releaseScript = '
       if redis.call("GET", KEYS[1]) == ARGV[1] then
            return redis.call("DEL",KEYS[1])
        else
            return 0
       end
   if (!isset($this->lockValues[$name])) {
        return false;
    $arguments = [$releaseScript, 1, $name, $this->lockValues[$name]];
    if (!$this->redis->rawCommand( command: 'EVAL', ...$arguments)) {
       return false;
   unset($this->lockValues[$name]);
    return true;
```