





This state diagram shows the life cycle of a Timer Object. When the object is created and set to run with `QThreadPool::globalInstance()->start()`, it first calls the `timerLoop()`. At first its default for `isNotPaused` is true, meaning that the timer remain on a state of waiting for commands.

When the CES calls `Timer::start()`, it changes `isNotPaused` to false which begins the flow of sending a `tick()` signal and decreasing the counter value. If the counter value reaches 0, it sends a `end()` signal to the CES which the CES can interpret how ever it wants. Because the counter is now 0, the timer goes back to a state of waiting. The counter can be reset with calling `Timer::setTime(int)`. `Timer::pause()` will also set the timer to a wating state.

The object is destroyed when the CES call `Timer::stop()`

