```
log
# loa level
# read index
# write index
# callback func
# user obj
# missed log event cnt
# log buf
+ \log()
+ ~loa()
+ set log level()
+ post log msg()
+ post log event()
+ set log callback()
+ missed log event count()
           Λ
           log imp
   h thread

    log_waiting

   thread
   h thread

    thread id

    poll events

    log waiting

   + log imp()
   + ~log imp()
  + post_log_event()
   + log imp()
   + ~log imp()
   + post log event()
   + log imp()
   + ~log imp()
   + post log event()
  logging thread init()

    dispatch callbacks()

   logging thread init()

    proc logging thread

    callback()
  - logging thread init()

    dispatch callbacks()

  dispatch thread()

    proc logging thread()

    dispatch thread()
```