## Java Thread States

A Java Thread can be found in 6 different states.

1. New
2. Runnable
3. Blocked
4. Waiting
5. Timed Waiting
6. Terminated

**New** – A thread has created. But it still not active.

**Runnable** – This means an active Thread. It can be either running or possibly running thread. It decides by the CPU.

**Blocked** – This not a permanent stop. When the thread is stopped for a span of time, we call it a blocked thread. This happens because of a synchronized lock. (because of another thread)

**Waiting** – This state is also a temporary stop. If the thread is waiting for something to happen it’s in waiting state.

**Timed Waiting** – Thread is stopped for a specific given time.

**Terminated** – This is the permanent end of the thread. This can happen after completing the execution or after getting an exception.

Initial State 🡪 New

Runnable (Active) 🡪 Ready to Run, Running

Non-Runnable (Inactive) 🡪 Blocked, Waiting, Timed Waiting

End State 🡪 Terminated