



JONAS.IO  
SCHMEDTMANN

# NODE.JS, EXPRESS & MONGODB

## THE COMPLETE BOOTCAMP



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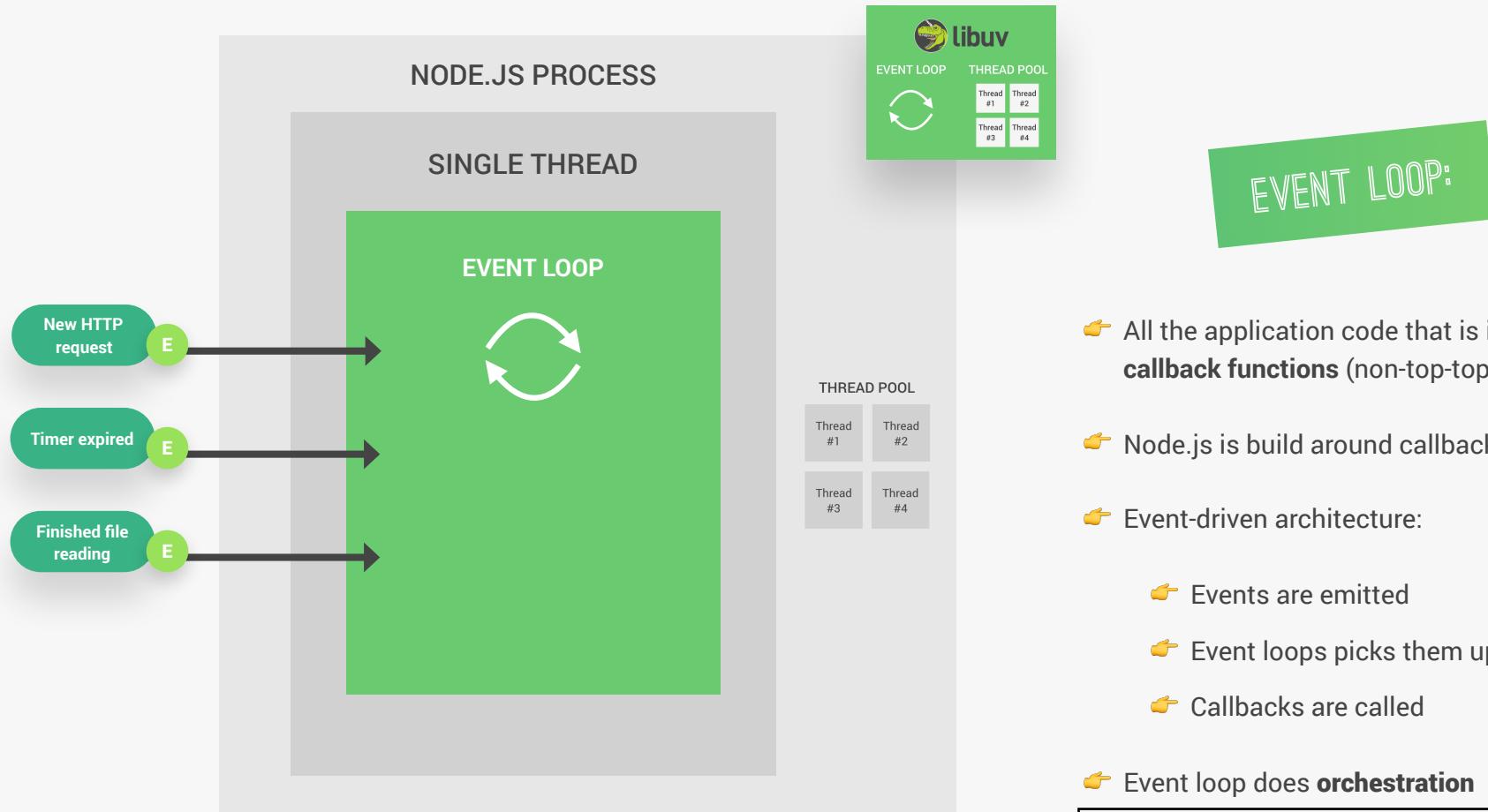
SECTION

HOW NODE.JS WORKS: A LOOK BEHIND  
THE SCENES

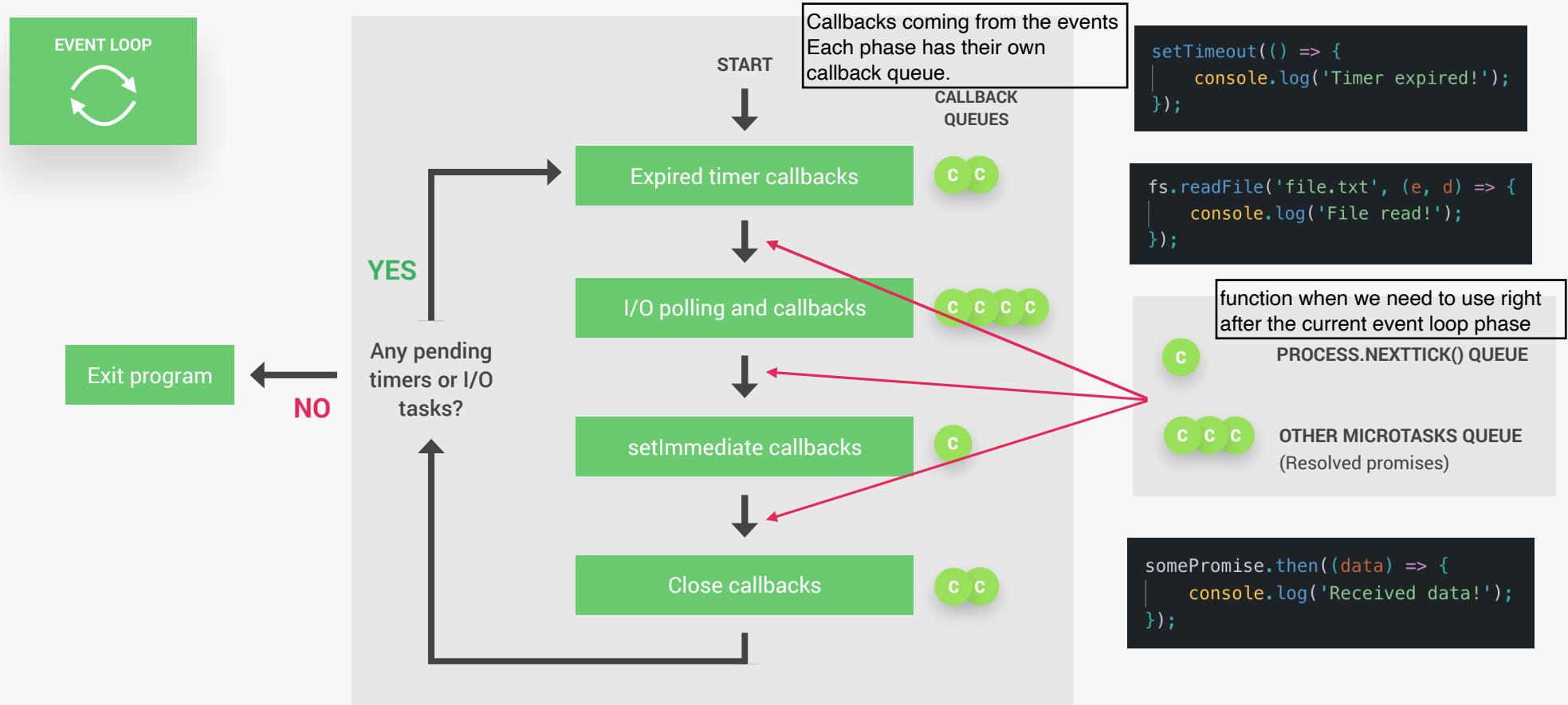
LECTURE

THE NODE.JS EVENT LOOP

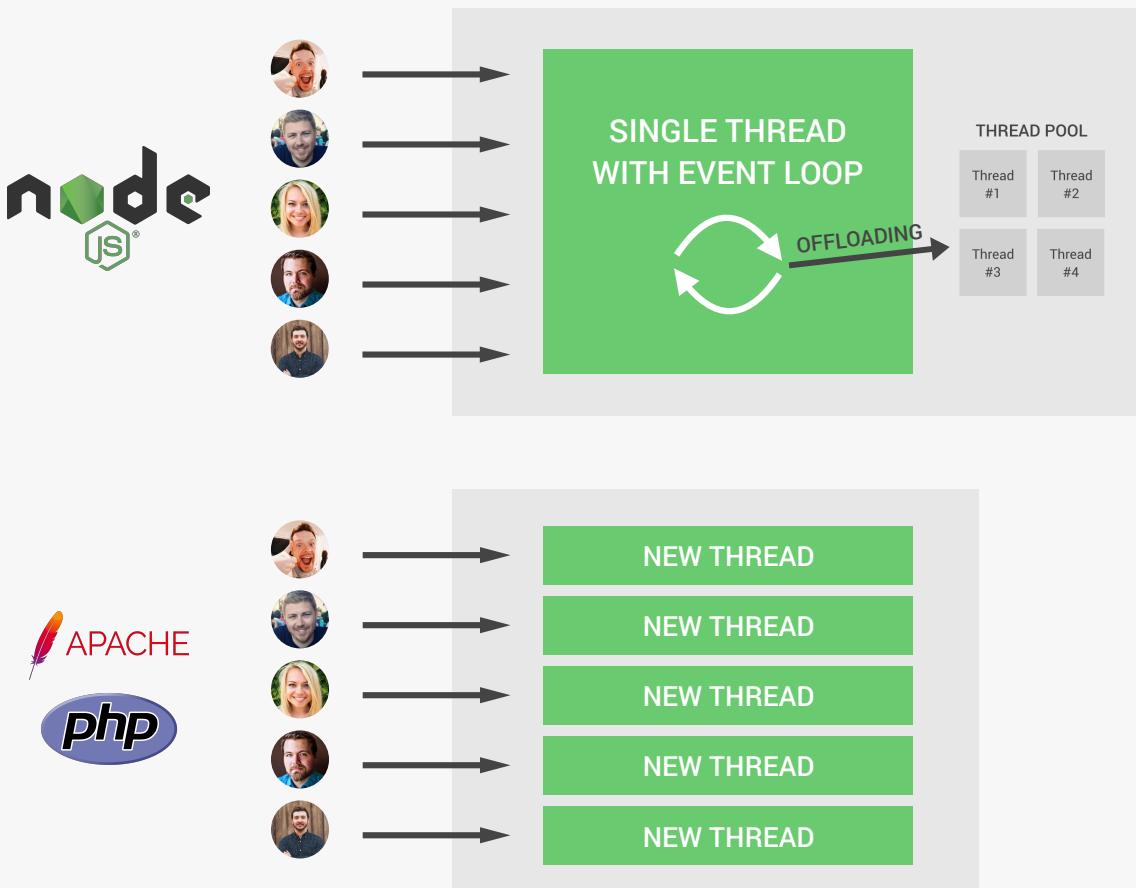
# THE HEART OF NODE.JS: THE EVENT LOOP



# THE EVENT LOOP IN DETAIL



## SUMMARY OF THE EVENT LOOP: NODE VS. OTHERS



DON'T BLOCK!

- 👉 Don't use **sync** versions of functions in fs, crypto and zlib modules in your callback functions
- 👉 Don't perform complex calculations (e.g. loops inside loops)
- 👉 Be careful with JSON in large objects
- 👉 Don't use too complex regular expressions (e.g. nested quantifiers)

Event loop is what makes async programming possible in nodeJS

We need event loop because in nodeJS everything works in a single thread. So you can have millions of users accessing node at the same time. This makes node scalable but it comes with the danger of blocking our single thread.