NodeJS

NodeJS architecture

NodeJS API

dependencies

Source Code

NodeJS API (File System, Events, Buffer, Http, Net, Stream)

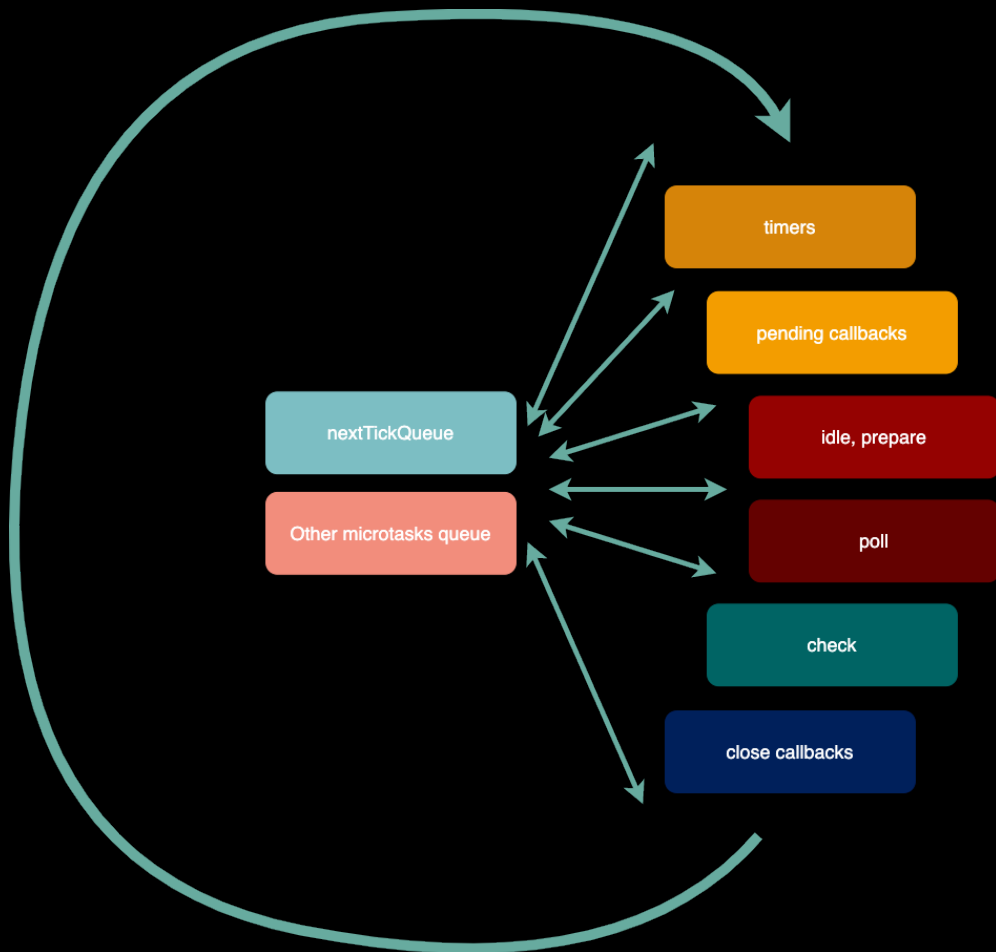| NodeJS Binding(Socket, Http)	C/C++ addons
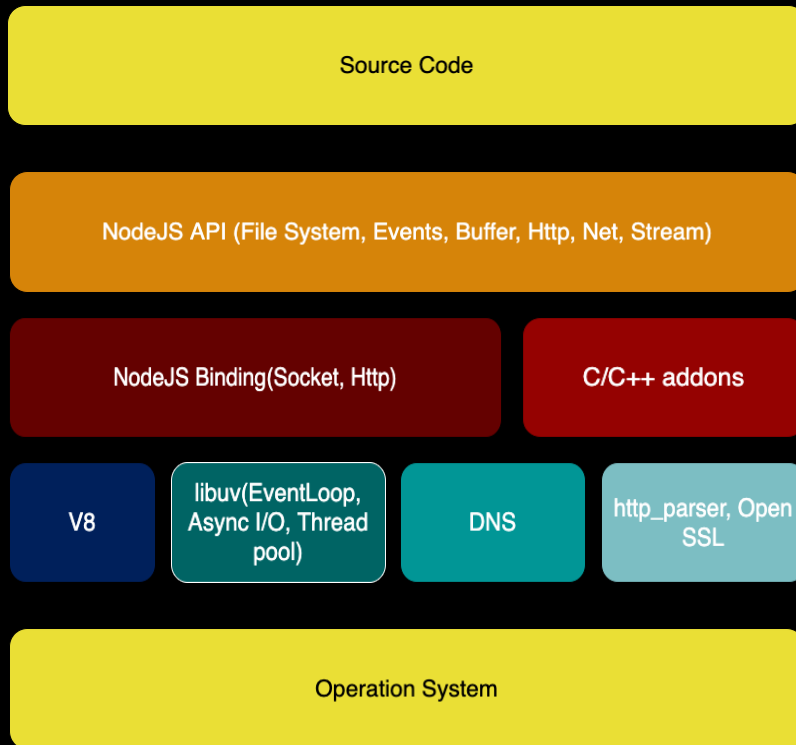
Code, written in C/C++, that can be loaded into NodeJS using the require() function.

V8	libuv(EventLoop, Async I/O, Thread pool)	DNS	http_parser, Open SSL

Operation System

The event loop is what allows Node.js to perform non-blocking I/O operations — despite the fact that JavaScript is single-threaded — by offloading operations to the system kernel whenever possible.

Event Loop

timers

pending callbacks

idle, prepare

poll

check

close callbacks
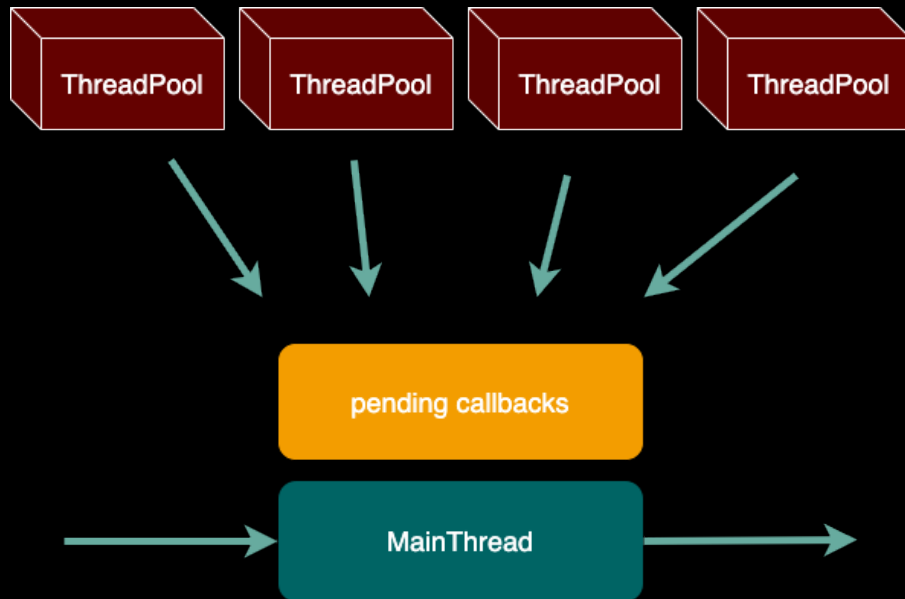
nextTickQueue

Other microtasks queue

Threadpool

Threadpool can be used to run user code and get notified in the loop thread.
Its default size is 4 but it can be changed at startup time by the
UV_THREADPOOL_SIZE.

Threadpool

Threadpool

eng.evolution.com

EXTRA ITEMS

These extra bullets can be used at your discretion

To use, copy and paste to the desired location.

Main and extra colors:

To use, choose the field you want to fill, double click, press "Fill", press "More colors…" on the palette of colors and insert the color code.

AFDCE5	F4CBCC	F5EE81
7CBEC3	F28D7C	EADF35
019696	D77067	F8B946
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00205B	640100	D68409