memory allocation thappens Event ever Stack 1 V8 engine Runtine Heap "execution 口, Contats" Non settimeout, Http etc do not exist in V8 800 # NS is a single threaded long - can do one thing at a time one thread = one "call stack" = one thing - "Call stack" is a data structure that records where in the program we are. when return In (a) 1 main 1 "Blocking" refers to things that are slow and are on the stack 1 = appearing = dissapp. node env API or Brown API Stack 1 (onsole log ("hi") set timeout 2 Settimeout (5s, his (onsole · loj ("hi2") hi print? 3 Console ly ("hiz") main() 个 ( Event loop task settimeout() e quen appears and dissappears at the same time then all of it disappears and stack is empty

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This stack auem Stores all completed webAPI or Node API calls.

NOTE that node env and browser apis are expres functionality that are technically through in cpp. we "threads" in the backend in cpp. we we as wed down use them as APIS.

- AND Event loop oney has one simple jos, that is to check is stack is empty and push "tasks" in task quew to stack one by one.