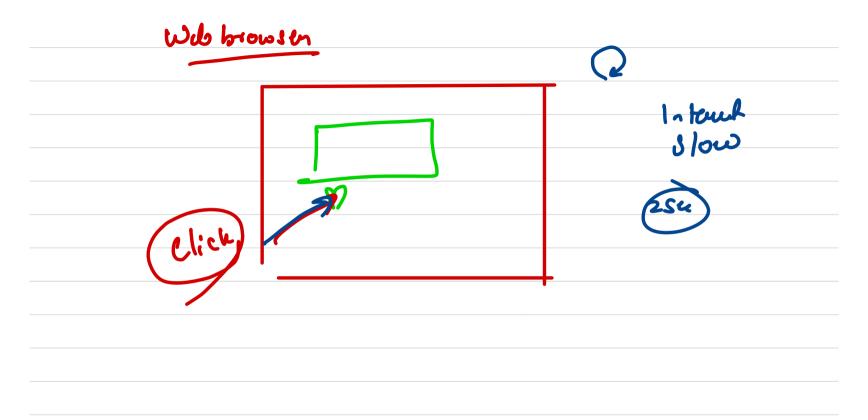
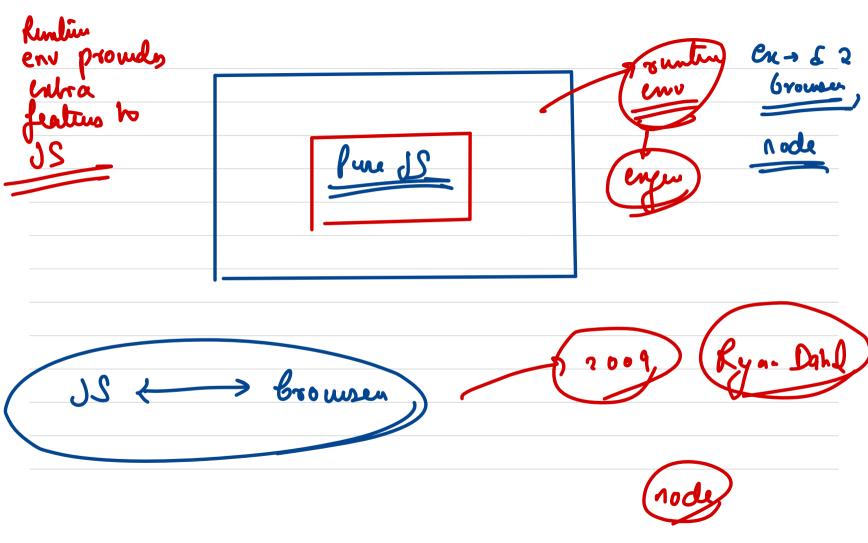
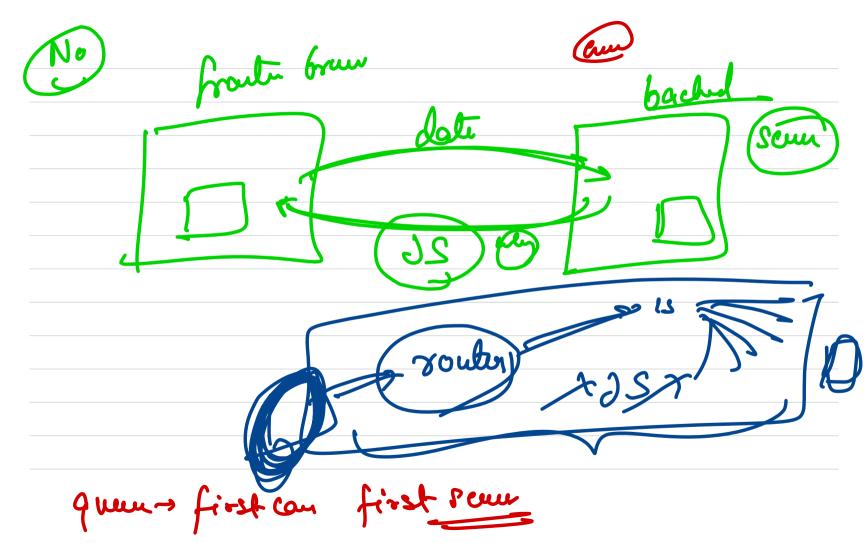
Imp features of 15 (const.) understandable by is will be executed lun Gylu) 4) JS is Single Hrreaded. Still geus non blocky ralien For featur sport from pungs



Pure JS, down't know theys like timers Counters, how to connect to intered, how render and control web foges etc etc





1	<pre>function printhello() {</pre>	
2	<pre>console.log("hello");</pre>	•
3	}	
4		
5	<pre>function blockforfewsec() {</pre>	
6	for(let i = 0; i < 1000000000; i++) {}	
7	<pre>console.log("ending blocker");</pre>	
8	}	
9		
10	<pre>setTimeout(printhello, 0);</pre>	
11	blockforfewsec();	
12	<pre>console.log("me first");</pre>	
13	blockforfewsec();	
	2 event 100p	
	event quous	Scallstack

JS will line ky line enecute the nature code. The moment Is sees anything of out from native then it does the followy--> JS just do one operation which is to send sy nal to the runtines, that a runtine feature is accessed --> Phen it sends the function de arguents la the runtine and nous forward. It doesn't want.

the moment runtine fanshes it's funci, un do n't enecute it then be then. We make it wait inside the event queur So De well keep on eneculy the code & enet ques well wait hill the time our call stack of global code is yet to be completed.

De Cruen two Shringe check if they are anagram of each other. n-slyk of Ed listend Sielentl -2XD 1 510 b ann - hour (13) Both the strings Should ham some Occurren of the JS70bj ley-valu chor-freq O(n)0(1)

Maria traued quick sof

Code of quicksort this be new -> Karan Crupte this -> auchit cerent loop & jun > Arnob - Tirth Private

assyn this to the moly the Constructor fene? is not relurny an object return this otherwork relur (the) object also

what are	Callbacks ??	
	Callbacks ?? a lot of time cb, aggre	ode

// whatever functions we will write will not hamper the main is thread Start douloady // Write a dummy program that can download a fine, then compress it and then upload it function download(url, callback) { // somehow it will download the file from the given url console.log("Started downloading from ", url); Start Corprerry setTimeout(function() { console.log("Download done for the file image.jpg"); callback("image.jpg"); }. 2000): 11 12 function compress(filePath, callback) { // somehow it will compress the file present on the file path console.log("Started compressing the file ", filePath); setTimeout(function() { 16 console log("Compression done for the file", filePath, "and saved it as image zip"); 17 callback("https://uploader.com", "image.zip"); 18 19 4000): 20 21 22 function upload(url, file) { // uploads the file on the given url 23 console.log("Started uploading", file, "to", url); 24 25 setTimeout(function() { console.log("Successfully uploaded the file"); 26 27 }, 3000) 28 Compress download("https://downloader.com/image.jpg", function(file) ompress(file. function(url, file) { Cupload(url, file); 34

Promise

Promises au readability enhancers: (thy enhanth (ode a bit). these are objects but special on: they get relevand in mediately when we make a runtin env func coll

funde display (data)?

(anoly.ly (data); asy en funder

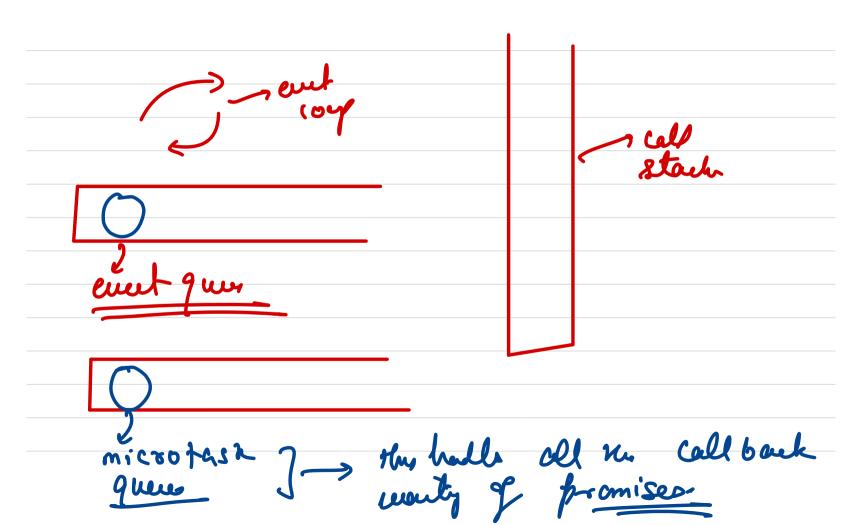
vants

let fd = fitch ("http://www.abc.ca."); Growin fd. then (display); fol varable well be Story a promu chet

So promis dow 2 thys, on inside je Lan ceulend 12 j.e runtim. i) it well give the fence call to the rule env. 2) it gens a placeholder to the variable i. Hu from promise object Inside the blace holder promise object un haus few propertie

(1) value: Initially when the fitch call is not completed, value mell be undefined but as soon fetch is completed the result of the func call well be stored in this value property

2 onfulfillment: this is an array. Now as soon as fetch is completed & value properly gets Me enact response, me one by one start enecuty the functions present in this corray unth value property so argument: who follo this array?? So this from object has a "then fener also, whaten funer rue pass inside then gets added to an full fellent



microtask green has bylen priorly