

· Visualising the call stuck function one () < return 1 (4) Sunction swolld Sunction others tack) set ons & dood + the como le englars) 113 onsee ()(1) (en ca) I underjoed (initally) Drie ans = undefined I) we can also visualize call stack smough debugging ek time pe code ki ek > JS is single threaded. cheej evaluate - callbacks helps in resolving this -> Set Timeout (35 Set +) meout It at str 12 3181 12 3201 91 IET BLOS waiting and 314 JS whi sows er Konsata hai > set Yireant (fungar() () T delen 3,2000); TS Booser set Ti work (how settime) 7,2000): 3 Synchonous Asynchaus lot a 2 25 Birg calbarks, satimeent, satisface consle. log(a) let b 2 10 Corrole Rog(b) count log(a+b)

Callback hell (Due to asynchrous nature) change color (color, delay, next color change) (cet Timeout (X) = > E h1. 5 hyle color 2 whor; if (next color change) next color dange (); y, delay); change color ("sed", 1000, () => & changerolor ("orange" 1000.) Il alback nesting - callback hall Promises 1 object > The promise object represents the eventual completion for failure) of an asynchronous operations & ite senting value. > 211 di ai ais complete Etoti ti incomplete some 12 Js as we kee one ding them it will complete or incomplete fails we go ahead. repolie and reject pulme - hunton save to 96 (data) (return new Promise ((strache, reject) => (let interest speed = math. floor (math. rando my) to)+1; if (interest speed >4) { ruces ("success: data was saved") failure ("palure: mode consection"); save to Db ("apra dg"); · ATX X IX

a promises (shen and catch) alet organet " some todo (" april") // upper vala vii code unho 3) como de long ("promise mahed")

Consider log l' regret) Console. log ("promise was rijected"). console log (request) + Promises (Improved.) > suple with a enough to get a massage if not saved. > Sane dodb (" Apra clg") . onen (() =) { comolo. log (" data / saved"); return save to Db ("helloworld"); s)
. sten (() ⇒ {

console. Doy("data 2 saved") 13). - (atch () =) (b); (6250le log ("pomise rejorted"). // y well isse uprivale call backled st * Remet and Errors · Man (remet) (of vipe fing of remove 6 mole log crement) / It askes hoga · cetan (error) { comple lag (cross) /1 it upper to reject it after

+ Reparking only old wde I leading Primisely from softment of Exal see of Exal pant Karana chance to possing after been winted. At sta 13 6 see. Wie hope & homes rejust promise to