Event delegation in Javascript
Event. Bubbling (Capturing in 75
Intro: Event Bubbling and Event Capturing (also known as
Event Bubbling and Event Capturing (also known as Event trickling) nepresents the sequence of events under nested HTML. Let's take a sample nested little as below.
Sample: Gode L (div id= "grand parent" (on Click) = dich grand Parent() > fo
< div id = parent (on Click) = provent ()
(div id = "child" (on Click) = "click Child") >
dide Child prient dick Parent dick P
Grand Pavent
Explanation:
Whenever there are seperate click functions to be executed on each div of nested divs.
In case of Event Bubbling,
a) When we click on child.
Sequence of methods called:
click Child -> click Parent -> click Grand Parent
Assume as a Bubble which is always going outside.

b) when we did on Porent Click Parent - click Grand Parent In Case of Event Capturiy / Trickling a) when we dick on child sequence of methods called Click Grand Parent -> click Parent -> click Child b) When we click on Parent click Grand Parent -> click Parent (2) Assume as a Trickle going down. In back days, Netscape suggested Event Capturing, but microsoft suggested Event Bubling in which was (standar) committee makes it as a choise for developer Add Event Listener In add event listener (which generally has two arguments 'event Name', () => & 3), we will be having third orgument saying use Capture: true/false, If use capture is true, event will be captured else event By default it will take use capture as fally when this of argument is not mentioned / mentioned as fally.

Tricky and time what it we give different use capture flags to different divs Inicky question Eg: child has tone, parent has take, grandfarent has tone 1 Observe the output

Performance Issues happens fost from According to W3C, trickling down bubbling happens top to bottom hierarchy and then from bottom to tor Capturing Ch bubbling Event propagation is a whole cycle of two halves, Whenever a div/element is given capture flag as tome they are executed in capture cycle and then bubbling phase arrives. It we give a mix of true / false capture flags; Then events which have capture: true, executes first O/p when clicked on child div #grand Parent : -> capture: true div # parent -> copture : take

div # child -> capture : torre gp clicked ch dicked P dicked of on po dild div # grand Parent -> capture: false copture: false div # parent > Child parent, gp div # child -> captur: tore How we can stop propagation? Event propagation generally nefers to the breakage of event uple (capturing + bubbling)

stops to propagate (all cares child clicked) d. qs("gp"). aEL('c)', (e) =) { e. Stop Propagation ();), true); of gp clicked d. gs("gp"). aEL('c1', ()= & 3, false); d. qs ("p"). aEL ('c)', (1 = { 3, fabr); d. qs ("ch"). aEL('cl', (e) =) (,), toue), Oll e. Stop Propagation() ch clicked d. 9/5 ("gp"). aEL ('cl', (1) (3, false); d. 9/5 ("p"). aEL('cl', (e) =) fe: stop Propagation() 5, tou) d. 95 ("Ch). aEL('cl', () = { 3, fale); P dicked.