async and defer

async and defer attributes are used along the script tag to load external scripts efficiently in our web page.

When we loud a web page there are two major things happens in the browser one is html passing second is loading of the scripts.

Loading of the scripts contains two past one is fetching the script from the network and second is executing script line by line.

1) < script src="" />

black line indicates executing n+m1, red line indicate fetching script yellow line indicates executing the script.

in first scenario html execution will pause while fetching and executing script which is not good.

- 2) < script async s &c = " " />
- 2) while executing h-m script is fetched executed and then himlexecution continues.

3) < script defet src=" "/>

3) while executing html scripts are fetched after execution of html completes scripts are executed.

When we should use what? async attribute does not guarantee order of execution but defer does, so putting a defer attribute in multiple script which are dependent on each other might break the code, in this case we should use defer, if scriptly are not dependent on each other we can use async, but using defer is good because it maintains the order of execution.

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