l ree Shaking In Js Thee shaking also known as unused exports is a process of removing unused code from Javascript bundles Why do we need True Shaking? It is extremely important to keep the production build as light as possible so that it will be downloaded; processed and executed fastes With emergance of modern Javascript Inameworks, the focus of developers are shifted to creating applications in less time and the component-based development architecture has led to creation of multiple files Paperkraft

Each component can have unused code that the other component may not require, or it may not be used anywhere in whole application, but when included it will increase the Ultimately affecting the performance. tor eg -> export function foo () {

Console, log ("I am Foo");

3 export function bar() {

Console. log (" I am bar");

Now Import the function too in another file
11 main.js import & Foo 3 from " vtlity, js?
too()',
Assuming that we've here using webpack as a bundles and that too in development mode
In final build you will see something like
/* I */ /* * * / (function (module, _ webpark = exports, —webpack _ require _) {
/* unused harmony export har */ function bor () { Console. log ("I am bor");

function foo()?

console log ("I am foo");

y Even though we are not using bor function it is included in final build. (+ is annotated by comment

/* unused harmany export bay*/ Stating it is an unused function

Thow does Tree Shaking Inlook Import and export madules introduced in ESG, lead to major breakthrough for Tree Shaking. This is true since 'Static' modules are required for tree shaking to fundto Before ESG, the dynamic import of Common Is module was used which allowed importing files conditionally. vor medule;
This is true since 'static' modules are required for tree shaking to function Before ESG, the dynamic import of Common IS module was used which allowed importing files conditionally.
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Before ESG; the dynamic import of Common TS module was used which allowed importing files conditionally.
Before ESG; the dynamic import of Common TS module was used which allowed importing files conditionally.
madule.
yar mau)
16 (condition) { modulo = require ("foo");
modulo = sequire ("foo");
3
else 2
module = Require ("bay");
faperkra

This approach was a hurdle for the Tree Shaking process as it was not possible to decide which module will be imported as import was happening at run time and excluding files at build time was not practical. When ESG modules were introduced they implemented static importing, which means all the files had to be imported globally at top foo from "foo"; impost bar from "bar"; import This really helped in detecting unused code as it wasto determine which Code is being used just like modern IDE's and linters does by highlighting unused code

The bundless like Webpack are	de la constantina de
So efficient in bee shaking	and the same of th
that they remove almost	all
the used imports of codes even	erice and the second
properties that are exported	to the same the same and the same and
properties that one exported but not imported anywhe	re,
11 person, is	and the second
export const lesson = &	
name: "Deepa Chaurasia"	
passion: (1 Blogging)	
export const l'erson = ? name: "Deepa Chaurasia" passion: "Blogging" y	
11 main, is) 1
import & name 9 from . person is	<u>)</u>
11 main.js import & name & from (./person.js console./09 (name)	
As property passion is not imported	
it will be treated as unused	
As property passion is not imported it will be treated as unused code and will be removed	
in Free Shaking.	Paperkraft