

D Explain es6 with history and features in details

Ins ESG, also known as Econoscript rols, is a significant significant ordate to the Javascript language standard.

international Stundards organization

Features to Javascript, aimed at making the language more Powaru , expressive, and easier to wark with.

HESTORY I. Land College 1994 A LONGIE POOD

The Remascript specification is the Standardized specification of scripting language, which is developed by Brendan Rich of Netscape.

of the property of the designed workers

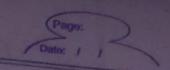
Prior to pro the last major update to lavastript was prosed in rood.

Sefore its finalization and brought many new feature and improvements to the language.

The development of ESG was driven by the need to excess shortcomings in Javascript, marke the ranguage more expressive and improve developer Productivity

· LOPANIS CH GE DOUNG

Deuroses 1-Default Pasametess! Default Pasametess allow Punction Parameters to have defauit vaives if no asymment of undefiend is provided Ost Punction funca, ball Beturn city ; console. log (fun (5.2)); console 109 c fon (3) 11 default value 21 2) Tempiate literals: Tempiate literals allow for easy string interpolation and multiline strings using backficks (1.1). est. 1et name 2 Rahall 1et message = Hello & frame 11.; 3) Assow function! Assow function ( => ) Provide a concise syntax for writing anonymous function, enhancing code scatability and squains poiled Piate of John John of Done de const add = (ab) => atb; w) Let and const! The const Keyword is used to recease constant variables whose values can't be changed. The 1et Justubles 480 motable her theis Values can be changed.



Es6 int soduced block. ScoPed Vasiable using 'let'
and 'const' treywords, which provided a mose
predictable vasiable scoPe behavior compased
to 'vas'.

5) clusses! PSG Introduced classes in Javascript classes in Javascript can be used to create new objects with the heip of a constructor each class can only have one constructor inside

Extr ciciss Pesson s

constructor (name)

Simo hear cosiso solved a 11 solvin and

const P = new Pesson ('Rahui'); console, log (P. Aame);

6) Rest and spread operators!

of an iterable (Rig., an assay) into individual elements

Function asguments intoasingle assay Pasamtes

and mose sobust way to wosk with asynchsonous code compased to cambuck functions.

Date: 1 1

2) define given concepts of advanced Javersezily which are let const carrow function, + es nasy operator, destructuring spread and modules.

105 1) 18+ 18+ 15 Keyword introduced in 1856 FOR declasing versiables - Vasiables declared with 19th are block - scoled meaning they are only accessible within the blow

in which the use defined. The let rusiables ase mutable i.e. their valves can be changed it works similar to the Var keyword with some key differences like scoping which makes it a better oftion when compared to W

10+ X=100,000 001:01 if CARRED fi 10+ 9=12010 11-292 1/15 4500 6 (0) - (1) + (1);

console log (y): 11 Refesence Cssos y is not defin

2) const. constants are block - scoped and cannot se geassigned after decia sation. However, if a constant holds a spresence to al object of assay, the proposities of prements of that object of assay can still be mutated. CAL CONST PIEZINY

26 1 890 Chan to 204102970 history with all

PT = 3.14 1891 11 TYPE 6880 8 const name = " Reiha!"

consol, log (name); Moutput, put

3) assow function!. Assow functions Provide a concise syntax for writing anonymous functions. They use denoted by the '> 'Syntax.

- Assow function are useful for writing shorter and cleaner code, especially for callback functions.

you don't need the function keyword, the returned the curry bracklets.

Pth 1et age 25.

let vercome = (age < 18)?

C) >> console, log (Baby)

Gimm wellome (); 1981 Macoin of 11 41

Lyour as the conditional operator, is a Javasses
oferator that Provides a compact way to write
Simple Conditional Statements.

it tentes the consists of a condition followed by a question mask ('q'), then an expression to execute if the condition is true. followed by a colon ('!'), and finally can expression to execute if the condition is faisy.

To execute if the condition is faisy.

const message = x > 5 9 grates than 5 :

5) Dos + Ructuring! - Destructuring allows you to extract values from arrays or objects and exercise them to variables in a more concise way.

Destructing in Javascrift basicany means the breaking down of a complex structure into

console 109 ( name, age);

6) SPRead! The spread operator ('...) unlows an iterasic ('iite an alray or string) to be expanded into individual elements.

concrion assuments and object literals.

CONSt (1882 = E4, 5, 63)

Const mergerssay = [... ass];

enculsorate Juvascript code into reusable units

javascrift modures allow you to break uf your code into separte files.

ratures can expost functions, objects, as other values for use in other modures and can also impost functionality from other modures.

5+1- 11 module. 15 expost const add 2 (a, b) => a+b; 1 (I main. 19) im Post saddy from I module 151; Console 100 (add (213)); 5 masks! D diffesentiate types of vasiable in is with a troth testil. Das Drus !- is rus is function - scoled. It mouns that vasiables declared with vas are accessible within the function they are decialled in segardiess of block scope: - vasiables declased with 'vas' can be 2 exectaised and seassigned within the same Scope Syntaxle vas Vasiable Dame = Value; ivilli - 221 MOST 95A3 - HOP 1920 1920 Extra vas 1/210/1/2019 1/19 2 498/de 1000 Function example () ? +2000 / NOVENT 3203000 2018101210 Console. Logic x); 11 outlot 20 etampe () console 108 (x); 11 outlut : 10 1000 11 POTULES

2 jet 5 jet is block-scoped. It means that Varsiensies decrarged with 1et age crocessis ony within the block they use de craed in Ce. y, within cult blaces (5) vasiables deciased with 19et an 50 sessigned but cannot be sedeciased within Systax! 18+ Vasiabledame = valve; CK1 18+ X = 10) if Ctans) { 184 X203 (0ASOIC. 108 (K); 11 00+Put 20 consoil (0) (1) ill outlut : 10 1 300 1 A flow 1 9 to 1994 2913 3) const! const is cuso block - Scoped like 181 > Variables a deciared with 'const' (annot be seassigned once they are initiquized, However pos objects and assays the properties of elements of the object of assard can be mutual vusicibles deciused with 1 const' cannot be sedecialsed within the same scope. SYNTAX! CONST Valiable Name = value; const. PI = 3.14; PI = 3.14154 11 cannot be seassigned const person = & name: 'Rainor 'y' Person age =20; 11 Properties of obje can be modified is will

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