## Variables Types

1 Let 2 Scope	The let keyword was introduced in ESG (2015). Variables declared with let have Block Scope. Variables declared with let make Block Scope. Variables declared with let cannot be Redeclared in the same scope. Variables declared with let cannot be Redeclared in the same scope. The let keyword in JavaScript is used to declare block-scoped variables, potentially limiting the scope of a variable to the block, statement, or expression in which it is used.  JavaScript had Global Scope and Function Scope. ESG introduced the two new JavaScript keywords: let and const. These two keywords provided Block Scope in JavaScript.	
3 Let Example 1	Variables declared inside a { } block cannot be accessed from outside the block  { let x = 2; } // x cun NOT be used here	
4 Let Example 2 - No Redeclare	Variables defined with let can not be robeclared. You can not accidentally redeclared a variable declared with let.  Eg: let x = "schn Brewo"; let x = 2;	
5 Let Example 3 - Let Hoisting	Nortiables defined with let or const are also heisted to the top of the block, but not initialized  Using a let or const variable before it is declared will result in a ReferenceCrove.  Fig:  carModel = "Vivo La Rasa";  let carModel = "Vivo";	
6 Var	Variables declared with var have Global Scope.  Variables declared with var are cither function=coped or globally scoped if declared outside any function.  If var is used anside a function, the variable is function=coped.  If var is used outside of any function, it declares a global variable.  Variables declared with var are histed, which means they are moved to the top of their enclosing scope (function or global) before code execution. However, only the declaration is hoisted, nor the initialization. Accessing the variable before the declaration results in undefined.  Within its scope, a variable declared with var can be re-declared without causing an error, which can lead to potential bugs if not carefully managed.  Rockeduring a JavaScript variable with var is allowed anywhere in a program.	
7 Var Example - Var Hoisting	Variables defined with var are holisted to the top and can be initialized at any time.  However, only the decluration is holisted, not the initialization. If you my to use a variable before it is declared and initialized, its value will be undefined.  E.g.:  catModel = "Vivo La Rasia";  var catModel;	Even though the assignment appears before the declaration in the code, the variable carName is already declared (due to hoisting) by the time the assignment happens. Therefore, the code works without throwing a Reforeacctive and earName ends up being "Vivo La Rasa".
8 Const	The const keyword was introduced in ES6 (2015). Viriables defined with corst cannot be Rodeclared Viriables defined with corst cannot be Romesigned. Viriables defined with corst knew Block Scope. JavaScript const variables must be assigned a value when they are declared.	Eg:
9 When to use Const?	Always declare a variable with censt when you know that the value should not be changed.	Use cents when you declare:  - A new Array  - A new Presides  - A new RegBap