## ES6 PPT1511051: let const/块级作用域

Thursday, November 5, 2015 10:15 AM

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块级作用域 + let/const 关键字:
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if(false) {

function funcB() { console.log('I am inside!'); }

```
1. 由 let 定义的变量仅在其块级作用域内起作用:块外无法获取
   { var a = 1; let b = 2; } console.log(a, b); // ReferenceError: b is not defined
2. 由 let 定义的变量不存在变量提升: 但在该作用域下会先占用位置
    console.log(c); // ReferenceError: c is not defined
    let c = 3;
3. 同一作用域下不可重复声明变量:
   function funcA (c) {
    var a = 'a';
    var a = 'A'; // ok
    let a = 1; // Duplicate declaration
    let b = 2;
    let b = 'b'; // Duplicate declaration
    let c = 3; // Duplicate declaration
     let c = 'c'; // ok
    }
   }
4. 在 for 循环中使用 let: 所声明之变量不会暴露至 for 循环之外
   for (let i = 0; i < 10; i++) { console.log('in for: i=' + i); }
   console.log(i); // ReferenceError: i is not defined
   var arr = [];
   for (let i = 0; i < 10; i++) {
    arr[i] = function () { console.log(i); };
   arr[6](); // 6
5. let 所造成的暂时性死区:报错而非 undefined
   var d = 'already defined outside';
   if (true) {
    console.log(d); // Reference error: d is not defined
    let d = 'defined inside';
6. 全局对象的属性:"use strict"表现?
   var e = 5;
   window.e // 5
   let f = 6;
   window.f // undefined
7. 与 ES5 的不同:ES6 下 function 定义本身的作用域,在其所在的块级作用域之内
   function funcB() { console.log('I am outside!'); }
   (function () {
```

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}
funcB(); // ES6: 'I am outside!' ES5: 'I am inside'
}());

8. 使用 const 定义常量: 类似 let 但不可二次赋值
const PI = 3.14159;
PI = 3.14; // TypeError: "PI" is read-only
const FOO; // SyntaxError: missing = in const declaration
var G = 'G';
const G = 7; // TypeError: "G" is read-only
const OBJA = { prop1: 'initial val for prop1' }
OBJA.prop1 = { prop1: 'val1 for prop1 changed' } // OK
OBJA = { prop1: 'another one' } // TypeError: "OBJA" is read-only

9. let + 块级作用域的用处:替代立即执行函数IIFE,避免内部定义变量覆盖外部重名变量,控
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9. let + 块级作用域的用处:替代立即执行函数IIFE , 避免内部定义变量覆盖外部重名变量 , 控制 for循环计数变量作用范围...