ES6 PPT1511131: 变量解构赋值

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可迭代/遍历对象(eq.[])与一般对象(eq.{})之解构模式:

1. 可迭代模式 (例 - 数组/[]):

典型应用:let [v0, v1, v2] = [10, 11, 12]; // let v0=10, v1=11, v2=12;

简单解析:let [var0, var1, var2] = alterable; // let var0=alterable[0], var1=alterable[1], var2 = alterable[2];

深度模型:let [expressionA, expressionB] = alterable; // let expressionA=alterable[0], expressionB=alterable[1];

2. 一般对象模式 (例 - 不可迭代对象/{}) :

典型应用:let {a, b, c} = {a:101, b:102, c:103}; // let a=101, b=102, c=103;

简单解析:let {varA, varB, varC} = oHasAttr; // let varA=oHasAttr.varA, varB=oHasAttr.varB, varC=oHasAttr.varC;

深度模型:let {attrA:exprA, attrB:exprB } = oHasAttr; // let exprA=oHasAttr.attrA, exprB=oHasAttr.attrB;

可迭代对象/数组解构赋值:

1. 赋值表达式右侧必须为可迭代对象:eg. [], "string is also iterable"

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let [a, [[b], c]] = [1, [[2], 3]]; // a=1, b=2, c=3
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let [s0, s1, s2, s3] = "我也可以被解构"; // s0=我, s1=也, s2=可, s3=以

(function(){ let [va, [vb, vc], vd] = arguments; })('a', ['b', 'c'], 'd'); // va='a', vb='b', vc='c', vd='d' let [v1, v2, v3] = (function* gen(){ yield '1st'; yield '2nd'; yield '3rd'; })(); // v1='1st', v2='2nd', v3 = '3rd'

let [v4, ...vmany] = [4, 5, 6, 7]; // v4=4, vmany=[5,6,7]

var [foo] = 1; // TypeError: Invalid attempt to destructure non-iterable instance

var [foo] = false; // TypeError: Invalid attempt to destructure non-iterable instance

var [foo] = NaN; // TypeError: Invalid attempt to destructure non-iterable instance

var [foo] = undefined; // TypeError: Invalid attempt to destructure non-iterable instance

var [foo] = null; // TypeError: Invalid attempt to destructure non-iterable instance

var [foo] = {}; // TypeError: Invalid attempt to destructure non-iterable instance

2. 无值元素被赋予 undefined 值:

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let [d, f] = [4, 5, 6]; // d=4, f=6
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const [g, h] = [7, 8, 9]; // g=7, h=8

var [i, j, ...vlot] = [10]; // i=10, j=undefined, vlot=[]

let [k, l, [m, n]] = [undefined, 'love', [, 'net', 'lAmIgnored']]; // k=undefined, l='love', m=undefined,
n='net'

let [s4,[s5,s6,s7],s8,s9] = "四五八九十"; // s4=四, s5=五, s6=undefined, s7=undefined, s8=八, s9=カ,

let [s4,[s5a,s5b,s5c],s6,s7] = "四五六七八"; // s4=四, s5a=五, s5b=undefined, s5c=undefined, s6=六, s7=七,

3. 应用默认值赋值:先执行右侧表达式取值,无值者自左侧依次尝试取默认值 let [o, p='pig', q, [r='run', s='sun']] = ['open', 'PI', , [undefined, null]]; // o='open', p='PI', q=undefined, r='run', s=null

```
let [t=100, u=++t, v=t--] = [200, 300,]; // t=199, u=300, v=200
一般对象解构赋值:
  1. 表达式右侧必须为含有 Attribute 的 对象: eg. {}, [], "", window, 123
     let \{a, b, c\} = \{b:2, c:3, a:1\}; // a=1, b=2, c=3
     let {d} = {D:4}; // d=undefined
     let {cos, sin} = Math; // cos=Math.cos, sin=Math.sin
     let {length} = [11,12,13]; // length=3
     var {foo1} = false; // foo1===undefined
     var {foo2} = NaN; // foo2===undefined
     var {foo3} = undefined; // TypeError: Cannot read property 'foo3' of undefined
     var {foo4} = null; // TypeError: Cannot read property 'foo4' of null
  2. 重定义输出变量名:
     let {a:a, b:B, c:c} = {b:2, c:3, a:1}; // a=1, B=2, c=3, b: ReferenceError: b is not defined
     let {alert:myAlert, confirm:myConfirm} = window; // myAlert=window.alert,
     myConfirm=window.confirm
     let {attrA:[varStr, varNum]} = {attrA:["IAmString", 456]}; // varStr='lamString', varNum=456
     let {attrB:{attrStr, attrObj:varObj}} = {attrB:{attrStr:"IAmString2", attrObj:{attrBool:true}}};
     //attrStr=, varObj=
     let {body:{innerHTML:theBodyHTML}} = document; // theBodyHTML=document.body.innerHTML
  3. 应用默认值赋值:
     let {d=4, e, f, g:myg=7} = {e:null, f:undefined}; //d=4, e=null, f:undefined, myg=7
     let {t=100, u=++t, v=t--, w=(t=50)} = {u:300, t:200}; //t=50, u=300, v=200, w=50
  4. 非声明情况下赋值:可使用()将表达式括起来
     var tan; {tan} = Math; // Expected an assignment or function call and instead saw an expression.
     var abs; ({abs} = Math); // abs=Math.abs
  5. 函数参数的解构赋值:
     //不一样的输出1
     function move(\{x, y\} = \{x: 0, y: 0\}) { return [x, y]; }
     move({x: 3, y: 8}); // [3, 8]
```

```
function move({x, y} = { x: 0, y: 0 }) { return [x, y]; }
move({x: 3, y: 8}); // [3, 8]
move({x: 3}); // [3, undefined]
move({}); // [undefined, undefined]
move(); // [0, 0]
//不一样的输出2
function move({x = 0, y = 0} = {}) { return [x, y]; }
move({x: 3, y: 8}); // [3, 8]
move({x: 3}); // [3, 0]
move({}); // [0, 0]
```

各类应用:交换变量值[x, y]=[y, x], 快捷提取对象/JSON成员赋值..., import/export