

概要

一个例子

关于节点的一个例子(childNodes(子节点)和children(子标签))

firstChild,lastChild,firstElementChild

previousSibling

nextElementSibling和nextSibling

nodeName

nodeType

常量

其他

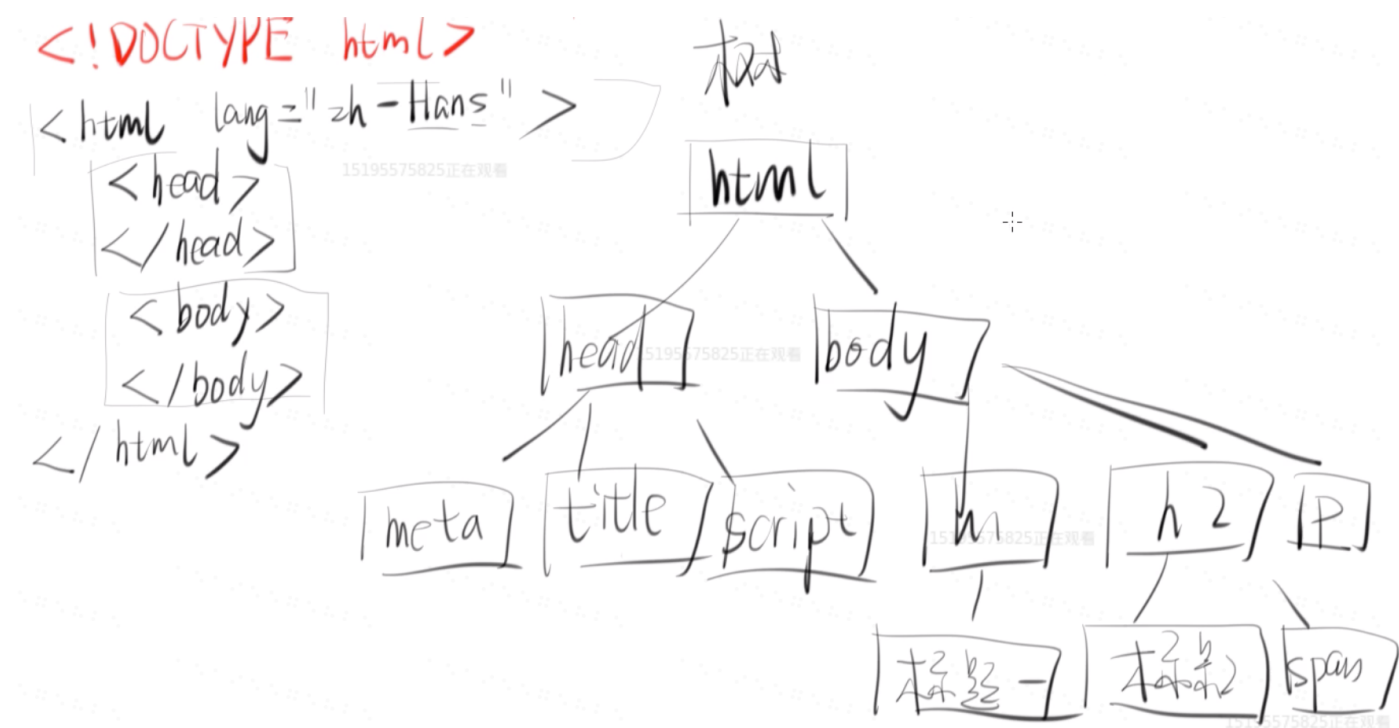
获取文本内容的api

<http://luopq.com/2015/11/30/javascript-dom/> Javascript操作DOM常用API总结

<https://github.com/wojiaofengzhongzhuifeng/study/blob/master/blog/B8-DOM.md> 优秀笔记

<https://xiedaimala.com/tasks/60d4d732-19f5-442b-9993-4d53ff94657c> 总体知识点概要

概要

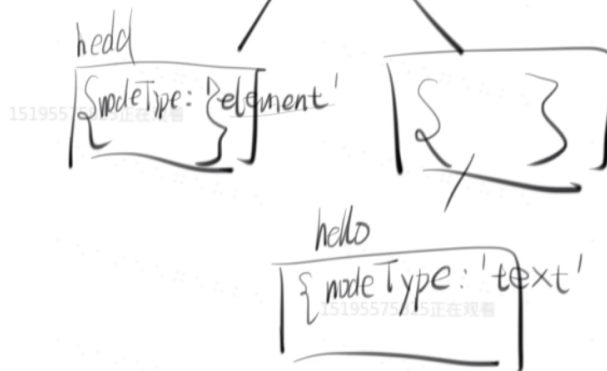
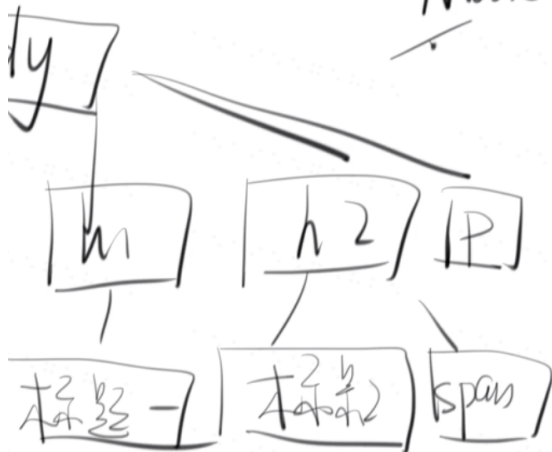


Document

Object

Node

Node



DOM 标准

DOCTYPE html

html lang="zh-Hans" >

<head>
</head>

<body>
</body>

./html>

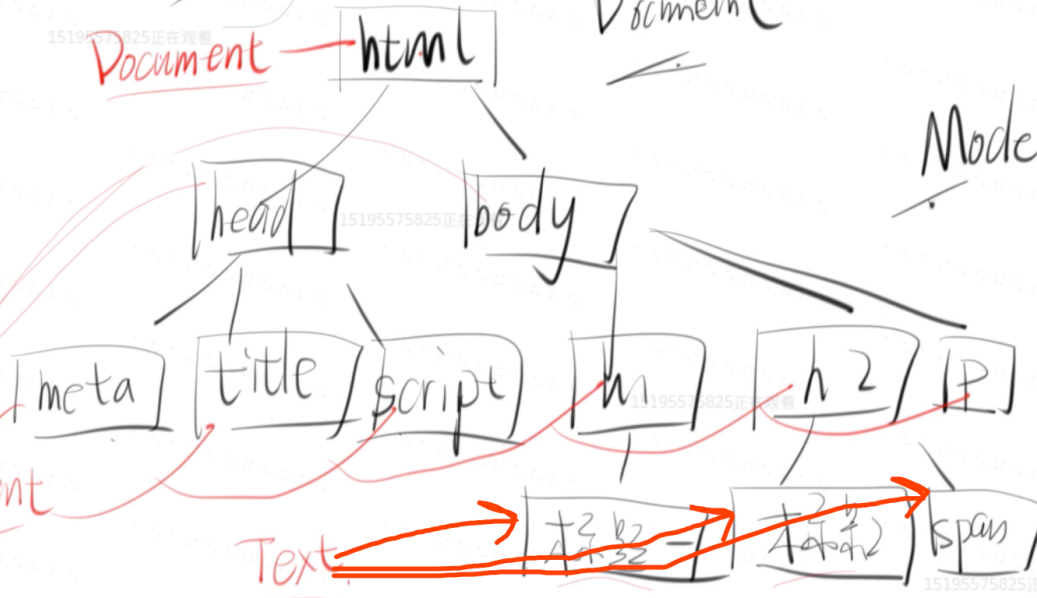
Node

Document

Node

Element

Text



Object

Object.prototype

Array.prototype

Function.prototype

Node

+

Element

Text

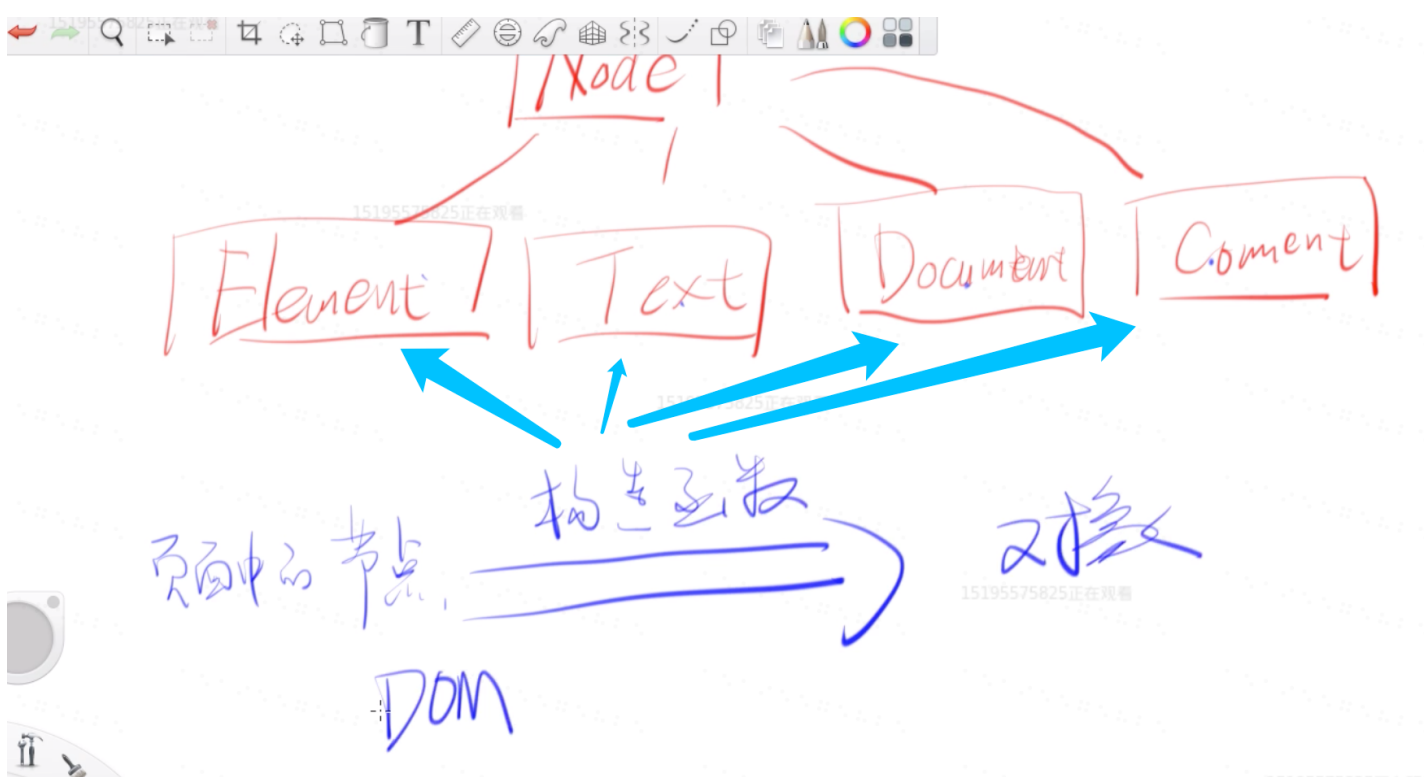
Document

一个例子

读取 static.firefoxchina.cn



将每个节点变成一个对象,你想操作那个对象,就调用对应的api;



关于节点的一个例子(childNodes(子节点)和children(子标签))

```
视频
Elements Console Network Sources Performance Memory Application Security Audits Adblock Plus
<!doctype html>
<html style="font-size: 51.2px;">
  <head>...</head>
  <body>
    <svg id="global-icons" version="1.1" xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" style="position:absolute;visibility:hidden;z-index: -1000;">...</svg>
    <div class="page-wrapper" id="TasksShow">...</div>
    <footer>...</footer>
    <script src="https://static.xiedaimala.com/xdml/cdn/packs/runtime-8c79803...js"></script>
    <script src="https://static.xiedaimala.com/xdml/cdn/packs/vendor-3f2ee96...js"></script>
    <script src="https://static.xiedaimala.com/xdml/cdn/packs/init+pc-d4f7b75...js"></script>
    <script src="https://static.xiedaimala.com/xdml/cdn/packs/js/tasks/show+pc-fa8c100...js"></script>
    <div style="position: fixed; width: 100%; height: 100%; left: 0px; top: 0px; user-select: none; pointer-events: none; z-index: 2; display: flex; flex-wrap: wrap;">...</div>
    <script type="text/javascript" src="https://s13.cnzz.com/z_stat.php?id=1271340636&online=2"></script> == $0
  </body>
</html>
```

这里明明只有9个为什么会显示16个呢？

```
> document.body
< > <body>...</body>
> document.body.childNodes
< > NodeList(16) [svg#global-icons, text, div#TasksShow.page-wrapper, text, footer, text, script, text, script, text, script, text, script, text, div, script]
> document.body.lastChild
< <script type="text/javascript" src="https://s13.cnzz.com/z_stat.php?id=1271340636&online=2"></script>
```

看这里:

如下所示:这里以其中一个地方为例;

0和2之间的text其实是 `svg` 标签和 `div` 标签之间的回车!

```
> document.body.childNodes
< ▼ NodeList(16) [svg#global-icons, text, div#TasksShow.page-wrapp
  ▶ 0: svg#global-icons
  ▶ 1: text
  ▶ 2: div#TasksShow.page-wrapper
  ▶ 3: text
  ▶ 4: footer
  ▶ 5: text
  ▶ 6: script
  ▶ 7: text
  ▶ 8: script
  ▶ 9: text
  ▶ 10: script
  ▶ 11: text
  ▶ 12: script
  ▶ 13: text
  ▶ 14: div
  ▶ 15: script
      length: 16
  ▶ __proto__: NodeList

> document.body.childNodes
< ▼ NodeList(16) [svg#global-icons, text, div#TasksShow.page-wrapper, text, footer, text, scr:
  ▶ 0: svg#global-icons
  ▶ 1: text
  ▶ 2: div#TasksShow.page-wrapper
  ▶ 3: text
  ▶ 4: footer
  ▶ 5: text
  ▶ 6: script
  ▶ 7: text
  ▶ 8: script
  ▶ 9: text
  ▶ 10: script
  ▶ 11: text
  ▶ 12: script
  ▶ 13: text
  ▶ 14: div
  ▶ 15: script
      length: 16
  ▶ __proto__: NodeList
```

而children是不会获取回车的!

```
> document.body
< ▶ <body>...</body>

> document.body.childNodes
< ▶ NodeList(16) [svg#global-icons, text, div#TasksShow.page-wrapper, text, footer, text, script, text, script, text, script, text, script, text, div, script]

> document.body.lastChild
< <script type="text/javascript" src="https://s13.cnzz.com/z_stat.php?id=1271340636&online=2"></script>

> document.body.children
< ▼ HTMLCollection(9) [svg#global-icons, div#TasksShow.page-wrapper, footer, script, script, script, script, div, script, global-icons: svg#global-icons, TasksShow:
  ▶ 0: svg#global-icons
  ▶ 1: div#TasksShow.page-wrapper
  ▶ 2: footer
  ▶ 3: script
  ▶ 4: script
  ▶ 5: script
  ▶ 6: script
  ▶ 7: div
  ▶ 8: script
      length: 9
  ▶ TasksShow: div#TasksShow.page-wrapper
  ▶ global-icons: svg#global-icons
  ▶ __proto__: HTMLCollection

>
```

```
视频
Elements Console Network Sources Performance Memory Application Security Audits Adblock Plus
<!doctype html>
<html style="font-size: 51.2px;">
  <head>...</head>
  <body>
    <svg id="global-icons" version="1.1" xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" style="position:absolute;visibility:hidden;z-index: -1000;">...</svg>
    <div class="page-wrapper" id="TasksShow">...</div>
    <footer>...</footer>
    <script src="https://static.xiedaimala.com/xhtml/cdn/packs/runtime-8c79803...js"></script>
    <script src="https://static.xiedaimala.com/xhtml/cdn/packs/vendor-3f2ee96...js"></script>
    <script src="https://static.xiedaimala.com/xhtml/cdn/packs/init+pc-d4f7b75...js"></script>
    <script src="https://static.xiedaimala.com/xhtml/cdn/packs/js/tasks/show+pc-fa8c100...js"></script>
    <div style="position: fixed; width: 100%; height: 100%; left: 0px; top: 0px; user-select: none; pointer-events: none; z-index: 2; display: flex; flex-wrap: wrap;">...</div>
    <script type="text/javascript" src="https://s13.cnzz.com/z_stat.php?id=1271340636&online=2"></script> == $0
  </body>
</html>
```

firstChild,lastChild,firstElementChild

```
< > <svg id="global-icons" version="1.1" xmlns="http://www.w3.org/2000/sv
">...</svg>
> document.body.firstChild
< <script type="text/javascript" src="https://s13.cnzz.com/z_stat.php?i
> document.body.firstElementChild
< svg#global-icons
```

Element提供了
firstElementChild
这个api

```
> document.body.firstChild
< <svg id="global-icons" version="1.1" xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" style="position:absolute;visibility:hidden;z-index: -1000;
">...</svg>
> document.body.lastChild
< <script type="text/javascript" src="https://s13.cnzz.com/z_stat.php?id=1271340636&online=2"></script>
> document.body.firstElementChild
< <svg id="global-icons" version="1.1" xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" style="position:absolute;visibility:hidden;z-index: -1000;
">...</svg>
> document.body.lastElementChild
< <script type="text/javascript" src="https://s13.cnzz.com/z_stat.php?id=1271340636&online=2"></script>
```

previousSibling

按道理来说这里body的哥哥应该是head,这里为什么是text呢?

```
> document.body.previousSibling
< #text
  assignedSlot: null
  baseURI: "https://xiedaimala.com/tasks/60d4d732-19f5-442b-9993-4d53ff94657c"
  childNodes: NodeList []
  data: "
"
  firstChild: null
  isConnected: true
  lastChild: null
  length: 2
  nextElementSibling: body
  nextSibling: body
  nodeName: "#text"
  nodeType: 3
  nodeValue: "
"
  ownerDocument: document
  parentElement: html
  parentNode: html
  previousElementSibling: head
  previousSibling: head
  textContent: "
"
  wholeText: "
"
  __proto__: Text
```

因为head和body之间有回车啊!!!只要再加一个previousSibling即可!

```
> document.body.previousSibling
< #text
> document.body.previousSibling.previousSibling
< <head>...</head>
>
```

nextElementSibling和nextSibling

nextSibling本来是为XML服务的,不是为html服务的;后来加了nextElementSibling

```
> document.head.nextSibling
< #text
> document.head.nextElementSibling
< <body>...</body>
> document.head.nextSibling.nextSibling
< <body>...</body>
> document.head.nextSibling.nextElementSibling
< <body>...</body>
>
```

会获取到文本

不会获取到文本

nodeName

注意点:只有svg是小写,其他都大写!!

```
> document.body.nodeName
< "BODY"
> document.body
< ▶ <body>...</body>
> document.body.firstChild
< ▶ <svg id="global-icons" version="1.1" xmlns="http://www.w3.org/2000/sv
">...</svg>
> document.body.firstChild.nodeName
< "svg"
> document.head.nodeName
< "HEAD"
> |
```

nodeType

这里的1表示tag(element的意思),所以说js很奇葩!

其实这里是考虑内存的原因!

```
> document.body.firstChild.nodeType
< 1
>
```

这里的1表示
tag或者element

3表示文本标签!

```
> document.body.firstChild.nextSibling.nodeType
< 3
> document.body.firstChild.nextSibling
< ▶ #text
>
```

常量

```
> Math.PI
< 3.141592653589793
> Node.ELEMENT_NODE
< 1
>
```

<https://developer.mozilla.org/zh-CN/docs/Web/API/Node/nodeType>

其他

获取文本内容的api

```
1 <div>
2 1 <span>2</span> 3 <span></span>4
3 </div>
4
```

```
5
6 var text = ''
7 for(let i =0; i<div.childNodes.length; i++){
8     if(div.childNodes[i].nodeType === 3){
9         text += div.childNodes[i].nodeValue
10    }
11 }
```

```
12 text
```

```
13
```

```
14
```

```
15 IE
```

```
16 div.innerText
```

```
17
```

```
18
```

```
19 FF Opera
```

```
20 div.textContent
```

IE搞了一个api

以前获取文本内容

火狐也搞了一个api

两者之间的区别:

<https://developer.mozilla.org/zh-CN/docs/Web/API/Node/textContent>

与innerText的区别

Internet Explorer 引入了 `node.innerText`。意图类似，但有以下区别：

- `textContent` 会获取所有元素的内容，包括 `<script>` 和 `<style>` 元素，然而 `innerText` 不会。
- `innerText` 受 CSS 样式的影响，并且不会返回隐藏元素的文本，而 `textContent` 会。
- 由于 `innerText` 受 CSS 样式的影响，它会触发重排（reflow），但 `textContent` 不会。
- 与 `textContent` 不同的是，在 Internet Explorer (对于小于等于 IE11 的版本) 中对 `innerText` 进行修改，不仅会移除当前元素的子节点，而且还会永久性地破坏所有后代文本节点（所以不可能再次将节点再次插入到任何其他元素或同一元素中）。

有 `textContent` 就用它，没有就用 `innerText`!

```
> 'textContent' in document.body
```

```
< true
```

```
> 'textContent' in document.body ? document.body.textContent : document.body.innerText
```

```
< "
```