浙江大学城市学院实验报告

课程名称	跨平台脚本开发	发技术	_		
实验项目名称	实验十 文档》	付象模型(DOM)			
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实验成绩	指导老师(签名	;)	日期		
注意: ● 务请保存好各自的源代码,已备后用。 ● 请把作业保存为 pdf 上传到 BB 平台,请务必在截止日期前提交。					
党队日的 。					

- 1、掌握 JS 中的模块定义与使用。
- 2、了解编程语言及其解释器的原理与实现

实验内容:

- 1. 阅读课件讲义并运行讲义示例程序
- 2. 教材 P181 习题 13.15.1, 13.15.2, 13.15.3
- 3. 教材 P196 习题 14.16.1,14.16.2,14.16.3

实验步骤:

1、

已阅读讲义实例

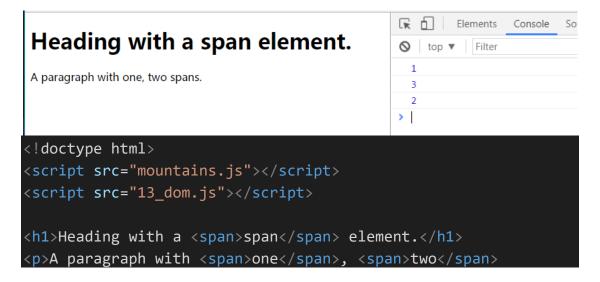
2、

2.1、

name	height	country	
Kilimanjaro	5895	Tanzania	
Everest	8848	Nepal	
Mount Fuji	3776	Japan	
Mont Blanc	4808	Italy/France	
Vaalserberg	323	Netherlands	
Denali	6168	United States	
Popocatepetl	5465	Mexico	

```
<!doctype html>
<script src="mountains.js"></script>
<script src="13_dom.js"></script>
name
  height
   country
 Killmanjaro
   5895
   Tanzania
 <style>
 /* Defines a cleaner look for tables */
 table { border-collapse: collapse; }
 td, th { border: 1px solid black; padding: 3px 8px; }
 th { text-align: left; }
</style>
<body>
<script>
 function buildTable(data) {
   var table = document.createElement("table");
  var fields = Object.keys(data[0]);
```

```
var headRow = document.createElement("tr");
   fields.forEach(function(field){
     var headCell =document.createElement("th");
     headCell.textContent = field;
     headRow.appendChild(headCell);
   });
   table.appendChild(headRow);
   data.forEach(function(object) {
     var row = document.createElement("tr");
     fields.forEach(function(field){
       var cell = document.createElement("td");
       cell.textContent = object[field];
       if(typeof object[field] == "number")
         cell.style.textAlign = "right";
       row.appendChild(cell);
     });
   table.appendChild(row);
   });
   return table;
 }
 document.body.appendChild(buildTable(MOUNTAINS));
</script>
</body>
```



```
spans.
<script>
 function byTagName(node, tagName) {
   var found = [];
   tagName = tagName.toUpperCase();
   function explore(node) {
     for (var i = 0; i < node.childNodes.length; i++) {</pre>
       var child = node.childNodes[i];
       if (child.nodeType == document.ELEMENT_NODE) {
         if (child.nodeName == tagName)
           found.push(child);
         explore(child);
       }
   explore(node);
   return found;
 }
 console.log(byTagName(document.body, "h1").length);
 console.log(byTagName(document.body, "span").length);
 var para = document.querySelector("p");
 console.log(byTagName(para, "span").length);
</script>
```

```
<!doctype html>
<script src="mountains.js"></script>
<script src="13_dom.js"></script>

<img src="cat.jpg" id="cat" style="position: absolute">
<img src="hat.jpg" id="hat" style="position: absolute">
</od>

<body>
<script>
    var cat = document.querySelector("#cat");
```

```
var hat = document.querySelector("#hat");
 var angle = 0;
 var lastTime = null ;
 function animate(time){
     if (lastTime != null ){
         angle +=(time - lastTime) * 0.0015;
     lastTime = time;
     cat.style.top =(Math.sin(angle)*50+80)+"px";
     cat.style.left = (Math.cos(angle)*200+230)+"px";
     var hatAngle = angle + Math.PI;
     hat.style.top =(Math.sin(angle)*50+80)+"px";
     hat.style.left = (Math.cos(angle)*200+230)+"px";
     requestAnimationFrame(animate);
 }
 requestAnimationFrame(animate);
</script>
</body>
```

3、

3.1、

RTT

```
<!doctype html>
<style>
  .trail { /* className for the trail elements */
   position: absolute;
   height: 6px; width: 6px;
   border-radius: 3px;
   background: teal;
 body {
   height: 300px;
</style>
<body>
<script>
var dots = [];
for (var i = 0; i < 12; i++)
{
   var node = document.createElement("div");
   node.className = "trail";
   document.body.appendChild(node);
   dots.push(node);
var currentDot = 0;
addEventListener("mousemove",function(event){
   var dot = dots[currentDot];
   dot.style.left = (event.pageX)+"px";
   dot.style.top = (event.pageY)+"px";
   currentDot = (currentDot + 1) % dots.length;
});
</script>
</body>
```

```
one two three
Tab one
```

```
<!doctype html>
<div id="wrapper">
 <div data-tabname="one">Tab one</div>
 <div data-tabname="two">Tab two</div>
  <div data-tabname="three">Tab three</div>
</div>
<script>
 function asTabs(node) {
   var tabs = [];
   for (var i = 0; i < node.childNodes.length; i++) {</pre>
     var child = node.childNodes[i];
     if (child.nodeType == document.ELEMENT_NODE)
       tabs.push(child);
   var tabList = document.createElement("div");
   tabs.forEach(function(tab, i) {
     var button = document.createElement("button");
     button.textContent = tab.getAttribute("data-tabname");
     button.addEventListener("click", function()
{ selectTab(i); });
     tabList.appendChild(button);
   });
   node.insertBefore(tabList, node.firstChild);
   function selectTab(n) {
     tabs.forEach(function(tab, i) {
       if (i == n)
         tab.style.display = "";
       else
         tab.style.display = "none";
     });
     for (var i = 0; i < tabList.childNodes.length; i++) {</pre>
       if (i == n)
```

```
tabList.childNodes[i].style.background = "red";
    else
        tabList.childNodes[i].style.background = "";
    }
    }
    selectTab(0);
}
asTabs(document.querySelector("#wrapper"));
</script>
```