HTML5网页设计初窥（12）

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Microsoft

新Web设计标准HTML5历史与回顾

Microsoft

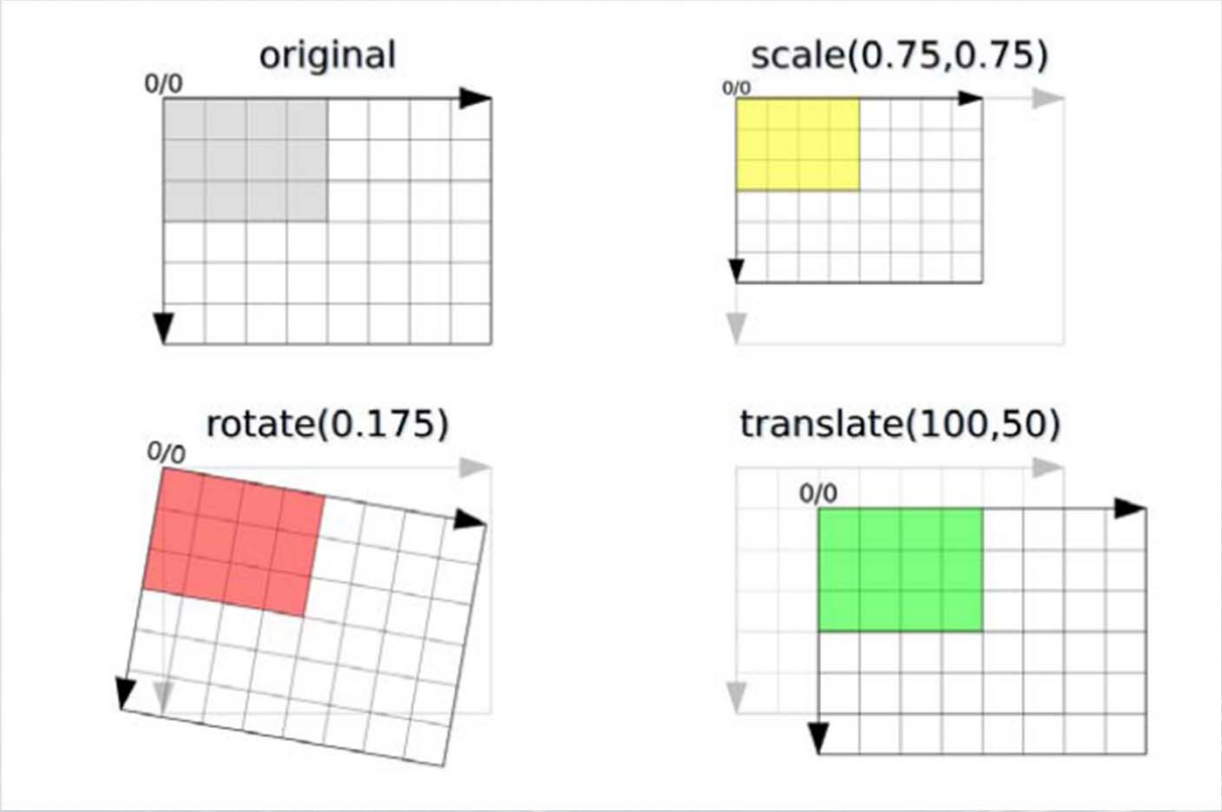
内容

- 图形变换
- 新标签和属性

msdn

Transformations

- scale(), rotate(), and translate(),



代码结构

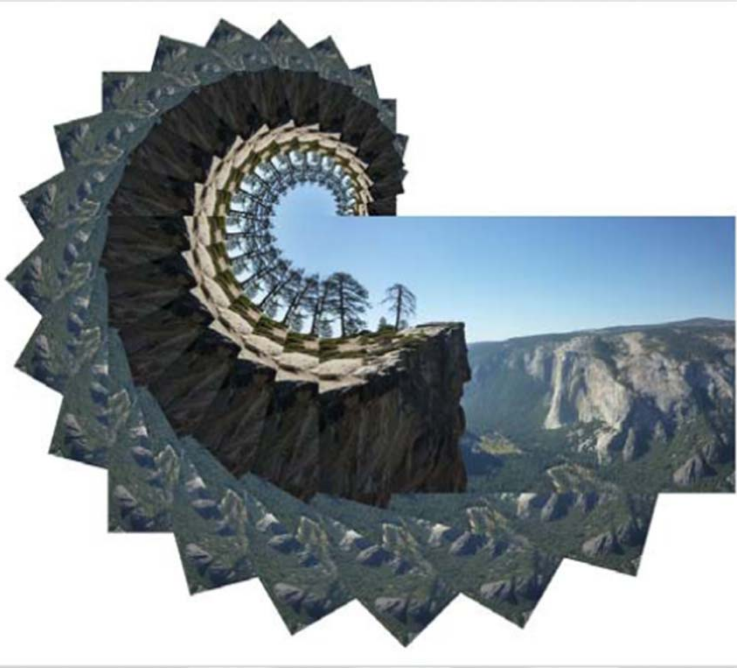
```
context.scale(x, y)
context.rotate(angle)
context.translate(x, y)

context.rotate(0.175);
context.scale(0.75,0.75);
context.fillRect(0,0,200,150);

context.translate(100,50);
context.rotate(0.175);
context.fillRect(0,0,200,150);
```

旋转图片

```
image.onload = function() {
var rotate = 15;
var scaleStart = 0.0;
var scaleEnd = 4.0;
var scaleInc = (scaleEnd-scaleStart)/(360/rotate);
var s = scaleStart;
for (var i=0; i<=360; i+=rotate) {
s += scaleInc;
context.translate(540,260);
context.scale(s,s);
context.rotate(i*-1*Math.PI/180);
context.drawImage(image,0,0,120,80);
context.setTransform(1,0,0,1,0,0);
}
};
```



针对属性的操作

- document.getElementsByClassName()

```
<li id=de class=q>Berlin</li>
<li id=at class=q>Vienna</li>
<!-- and 25 others -->

questions.item(1).innerHTML => Vienna
questions.namedItem('de').innerHTML => Berlin
```

- 使用空格连接多个关键字

```
var mmm = document.getElementsByClassName('red apple');
```

Data-*

- Data-*标记可以用来自定义数据

```
<li id=at class=q
data-pop=1705080
data-geo-lat=48.20833
data-geo-lng=16.373064
data-country='Austria'>Vienna</li>


var el = q.namedItem('at');
var pop = el.dataset.pop; // 1705080
var lat = el.dataset.geoLat; // 48.208
var lng = el.dataset.geoLng; // 16.373
var ctr = el.dataset.country; // Austria
el.dataset.pop = 1717034;
```

Hidden属性

- 将元素隐藏起来

```
var showRandomNItems = function(q,n) {
var show = [];
for (var i=0; i<q.length; i++) {
q.item(i).hidden = true;
show.push(i);
}
show.sort(function() {return 0.5 - Math.random()});
for (var i=0; i<n; i++) {
q.item(show[i]).hidden = false;
}
};
```

classList接口

- DOMTokenList
  - item(), contains(), add(), remove(), toggle().

```
<li class="red apple">

li.classList.length => 2
li.classList.item(0) => red
li.classList.item(1) => apple
li.classList.contains('red') => true
li.classList.contains('apple') => true
li.classList.contains('organic') => false
li.classlist.add('organic')
li.classList.item(2) => organic

banana.classList.remove('organic')
```

更多操作

- 一个面包的一天

```
// freshly baked in the morning
bread.classlist.add('fresh')
// late afternoon
bread.classList.toggle('fresh')
bread.classList.contains('fresh') => false
// and the next morning after the new delivery
bread.classList.toggle('fresh')
bread.classList.contains('fresh') => true
```

Draggable标签

- 99年IE5开始
- 05年所有浏览器支持(除了opera)

```
<li id=be draggable=true
ondragstart="startDrag(event)">Brussels</li>
```

- 此时提供接口

```
var dragStart = function(evt) {
evt.dataTransfer.setData('text',evt.target.id);
};
```

文件拖放示例

```
<div ondragenter="return false;"
ondragover="return false;"
ondrop="drop(event)">&#x2397;</div>

var drop = function(evt) {
var file = evt.dataTransfer.files[0];
};

var dataURLReader = new FileReader();
dataURLReader.onloadend = function() {
imgElem.src = dataURLReader.result;
imgInfo.innerHTML = file.name+' ('+_inKb(file.size)+')';
}
dataURLReader.readAsDataURL(file);

var binaryReader = new FileReader();
binaryReader.onload = function() {
var exif = findEXIFinJPEG(binaryReader.result);
for (var key in exif) {
exifInfo.innerHTML += _asRow(key,exif[key]);}};
binaryReader.readAsBinaryString(file);
```

文件API和拖放

- http://www.w3.org/TR/FileAPI/
- http://www.w3.org/TR/html5/dnd.html

Contenteditable和spellcheck

- 可编辑标签和自动拼写检查标签

```
<p contenteditable=true>
Text to be edited ...
</p>
```

```
<p contenteditable=true spellcheck=true>
Text to be edited ...
</p>
```

总结

- 图形变换
- 新标签和属性
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  http://msdn.microsoft.com/zh-cn/aa570311
- **MSDN 开发中心**
  http://msdn.microsoft.com/zh-cn/aa937802.aspx
- **Internet Explorer 9 开发中心**
  http://msdn.microsoft.com/zh-cn/ie/
- **HTML5 学习资源**
  http://msdn.microsoft.com/zh-cn/aa740476.aspx

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