

# px,em,rem,vw,vh網頁css單位簡介

<body>

- ... <p>px：絕對單位，為螢幕中每個網點(pixel)</p>
- ... <p>em：相對單位，為設定元件經由乘以parent元件的 px 值。</p>
- ... <p>rem：相對單位，為設定元件經由乘以body元件的 px 值。</p>
- ... <p>vw：相對單位，為設定元件經由乘以browser可視寬度的 px 值。</p>
- ... <p>vh：相對單位，為設定元件經由乘以browser可視高度的 px 值。</p>

... <span>

# 建立測試頁面

```
layer01.html  webUnit.html X  layer02.html  layer03.html
webUnit.html > html > body > p
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5      <meta charset="UTF-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8      <style type="text/css">
9          span {
10              border: solid 2px ■ blue;
11              width: 600px;
12              height: 300px;
13              display: block;
14              padding: 5px;
15          }
16          body {
17              font-size: 14px;
18          }
19      </style>
20  </head>
21
22  <body>
23      <p>px：絕對單位，為螢幕中每個網點(pixel)</p>
24      <n>em：相對單位，為設定元件經由乘以parent元件的.nx.值。</n>
```

# 建立px,em測試

```
<body>
... <p>px：絕對單位，為螢幕中每個網點(pixel)</p>
... <p>em：相對單位，為設定元件經由乘以parent元件的·px·值。</p>
... <p>rem：相對單位，為設定元件經由乘以body元件的·px·值。</p>
... <p>vw：相對單位，為設定元件經由乘以browser可視寬度的·px·值。</p>
... <p>vh：相對單位，為設定元件經由乘以browser可視高度的·px·值。</p>
... <span>
...   PX:14px;
...   <span style="font-size: 18px;width: 80%;height: 80%;">
...     PX:18px;
...   </span>
... </span>
... <hr color="orange">
... <span>
...   em:14px;
...   <span style="font-size: 1.5em;width: 80%;height: 80%;">
...     em:1.5em, 14*1.5=21px;
...     <span style="font-size: 1.5em;width: 80%;height: 80%;">
...       em:1.5em, 21*1.5=31.5px;
...     </span>
...   </span>
... </span>
... <hr color="yellow">
```

# 測試執行

vw: 相對單位，為設定元件經由乘以browser可視寬度的 px 值。

vh: 相對單位，為設定元件經由乘以browser可視高度的 px 值。

```
PX:14px;
```

```
PX:18px;
```

```
em:14px;
```

```
em:1.5em, 14*1.5=21px;
```

```
em:1.5em, 21*1.5=31.5px;
```

```
rem:14px;
```

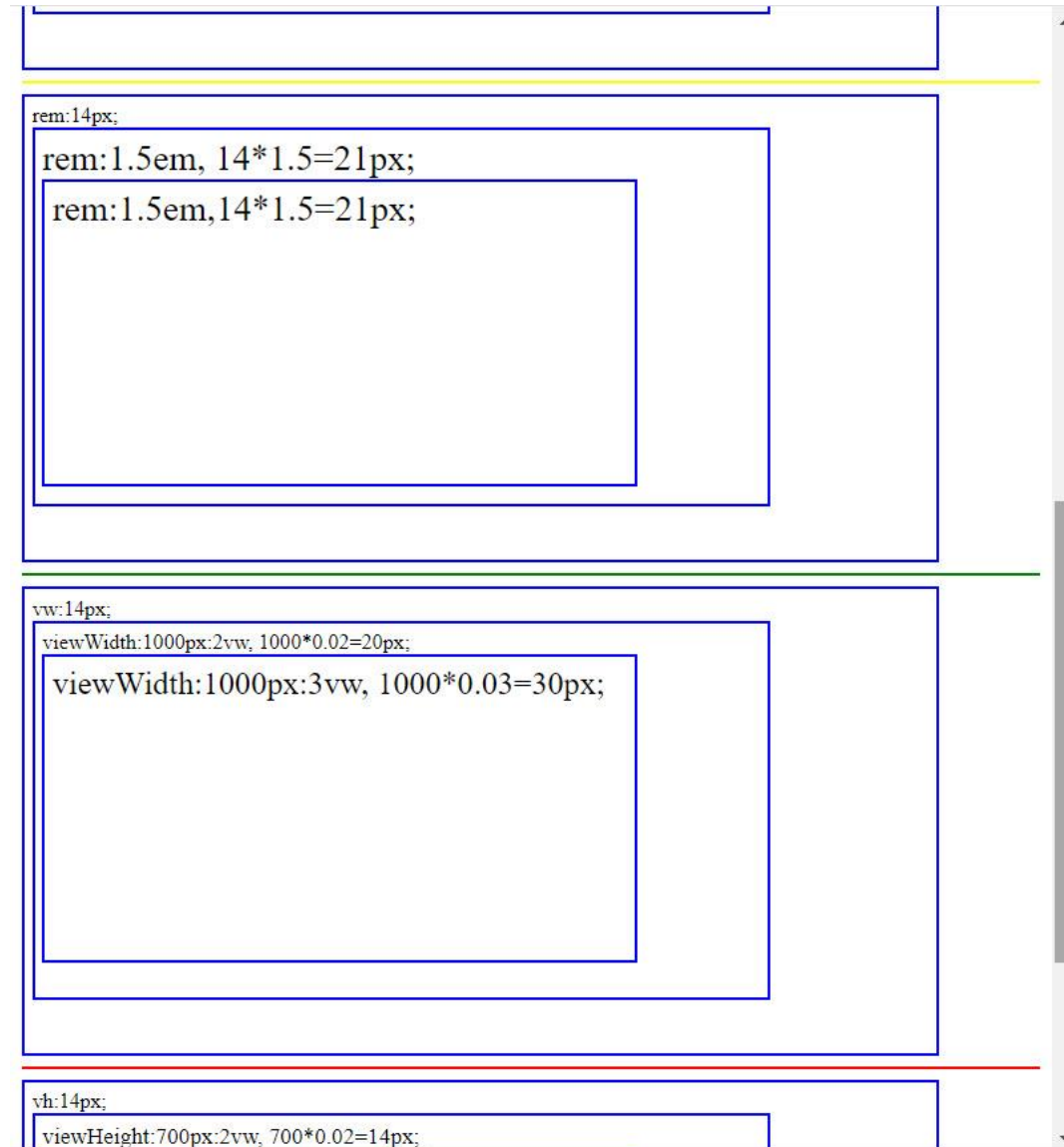
```
rem:1.5em, 14*1.5=21px;
```



# 建立rem,vw測試

```
    </span>
  </span>
  <hr color="yellow">
  <span>
    rem:14px;
    <span style="font-size: 1.5rem;width: 80%;height: 80%;">
      rem:1.5em, 14*1.5=21px;
      <span style="font-size: 1.5rem;width: 80%;height: 80%;">
        rem:1.5em,14*1.5=21px;
      </span>
    </span>
  </span>
  <hr color="green">
  <span>
    vw:14px;
    <span style="font-size: 2vw;width: 80%;height: 80%;">
      viewWidth:1000px:2vw, 1000*0.02=20px;
      <span style="font-size: 3vw;width: 80%;height: 80%;">
        viewWidth:1000px:3vw, 1000*0.03=30px;
      </span>
    </span>
  </span>
  <hr color="red">
```

# 測試執行



# 建立vh測試

```
... <hr color="green">
... <span>
...   vw:14px;
...   <span style="font-size: 2vw; width: 80%; height: 80%;">
...     viewWidth:1000px:2vw, 1000*0.02=20px;
...     <span style="font-size: 3vw; width: 80%; height: 80%;">
...       viewWidth:1000px:3vw, 1000*0.03=30px;
...     </span>
...   </span>
... </span>
... <hr color="red">
... <span>
...   vh:14px;
...   <span style="font-size: 2vh; width: 80%; height: 80%;">
...     viewHeight:700px:2vw, 700*0.02=14px;
...     <span style="font-size: 3vh; width: 80%; height: 80%;">
...       viewHeight:1000px:3vw, 700*0.03=21px;
...     </span>
...   </span>
... </span>
</body>
```

# 測試執行

vh:14px;

viewHeight:700px:2vw,  $700*0.02=14\text{px}$ ;

viewHeight:1000px:3vw,  
 $700*0.03=21\text{px}$ ;