网易微专业之《前端开发工程师》 学习笔记

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《页面架构》

CSS Reset

定义:

清除默认样式。全局样式定义。

Reset First:

- 在项目初期确定
- 样式定义时顺序应放在第一位

布局解决方案

居中布局

水平居中布局(子容器和父容器宽度不定情况)

inline-block + text-align

● 兼容性好,兼容 IE6-7;

```
.child{
    display: inline-block;
}
.parent{
    text-align: center;
}
```

● 需要额外代码来修复 text-align 造成问题。

table + margin

```
.child{
    display: table;
    margin: 0 auto;
}
```

absolute + transform

- .parent{
 position: relative;
 }
 .child{
 position: absolute;
 left: 50%;
 transform: translateX(-50%);
 }
- 居中元素不会对其他元素产生影响
- 兼容性较差

flex + justify-content

- 只需设置父元素即可实现居中布局
- 低版本不支持

垂直居中(子容器和父容器高度不定情况)



table-cell + vertical-align



兼容性较好(IE6-7,需要将结构改为表格结构)

absolute + transform

flex + align-items

```
DEMO
.parent{
    display: flex;
    align-items: center;
}
```

水平-垂直居中



inline-block + text-align + table-cell + vertical-align

```
.parent{
    text-align: center;
    display: table-cell;
    vertical-align: middle;
}
.child{
    display: inline-block;
}
```

absolute + transform

```
.parent{
    position: relative;
}
.child{
    position: absolute;
    Left: 50%;
    top: 50%;
    transform: translate(-50%,-50%);
}
```

flex + justify-content + align-items

```
.parent{
    display: flex;
    justify-content: center;
    align-items: center;
}
```

解决方案思路:

- 掌握 CSS 属性和值的特性
- 对问题进行分解

多列布局



float + margin

- IE6 不兼容,会产生 3px 的 bug.
- 清除浮动时也会出现某些问题。

float + margin + (fix)

```
<div class="parent">
                                  .left{
  <div class="left">left</div>
                                      float: left; width: 100px;
  <div class="right-fix">
                                      position: relative;
      <div class="right">
         rightright
      </div>
                                  .right-fix{
  </div>
                                      float: right; width: 100%;
</div>
                                      margin-left: -100px;
left
        right
                                  .right{
                                      margin-left: 120px;
        right
```

● 兼容性好,兼容 IE6.

float + overflow

```
div class="parent">
                          .left{
  <div class="left">
    left
                               float: left;
  </div>
  <div class="right">
                               width: 100px;
     right
     right
                               margin-right: 20px;
  </div>
                          .right{
left
       right
                               overflow: hidden;
       right
```

```
div class="parent">
                             .parent{
  <div class="left">
                                 display: table; width: 100%;
     left
                                 table-layout: fixed;
  <div class="right">
     right
                             .left,.right{
     right
  </div>
                                 display: table-cell;
                             .left{
left
        right
                                 width: 100px;
                                 padding-right: 20px;
        right
```

table-layout: auto | fixed 设置或检索表格的布局算法。

- auto: 默认的自动算法。布局将基于各单元格的内容,换言之,可能你给某个单元格定义宽度为100px,但结果可能并不是100px。表格在每一单元格读取计算之后才会显示出来,速度很慢
- fixed: 固定布局的算法。在这算法中,水平布局是仅仅基于表格的宽度,表格边框的宽度,单元格间距,列的宽度,而和表格内容无关。也就是说,内容可能被裁切
- 通常 fixed 算法会比 auto 算法高效,尤其是对于那些长表格来说。fixed 算法使得表格可以像 其它元素一样一行一行的渲染。

flex

```
<div class="parent">
                              .parent{
   <div class="left">
                                  display: flex;
     left
   </div>
   <div class="right">
                              .left{
      right
      right
                                  width: 100px;
   </div>
                                  margin-right: 20px;
</div>
       right
left
                              .right{
                                  flex: 1;
       right
```

适用于小范围的布局使用,复杂布局不建议使用。



```
<div class="parent">
                         .left,.center{
  <div class="left">
     left
                              float: left;
  <div class="center">
                              width: 100px;
  center
</div>
<div class="right">
                              margin-right: 20px;
     right
     right
  </div>
</div>
                         .right{
left
       center
               right
                              overflow: hidden;
               right
                         自适应
  不定宽
```

float + overflow

```
div class="parent">
                           left{
  <div class="left">
     left
                               float: left;
  </div>
                               width: 200px;
  <div class="right">
     right
                               margin-right: 20px;
     right
  </div>
</div>
                          .right{
left
              right
                               overflow: hidden;
              right
  v class="parent">
                          .left{
  <div class="left">
     left
                               float: left;
  </div>
  <div class="right">
                               margin-right: 20px;
     right
     right
  </div>
                          .right{
                               overflow: hidden;
left
              right
                           left p{width: 200px;}
              right
```

```
div class="parent">
                              .parent{
  <div class="left">
                                  display: table; width: 100%;
  left</div>
                                  table-layout: fixed;
  <div class="right">
     right
                              .left,.right{
      right
   </div>
                                  display: table-cell;
</div>
                              .left{
                right
left
                                  width: 200px;
                                  padding-right: 20px;
                right
```

设置宽度由内容决定时,代码如下:

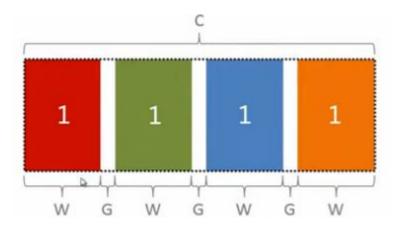
```
<div class="parent">
                             .parent{
  <div class="left">
                                 display: table; width: 100%;
     left
  </div>
  <div class="right">
                             .left,.right{
     right
                                 display: table-cell;
      right
                             .left{
                                 width: 0.1%;
left
                right
                                 padding-right: 20px;
                right
                              left p{width: 200px;}
```

flex

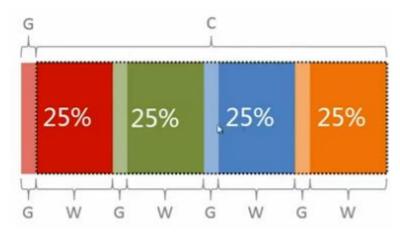
```
<div class="parent">
                             .parent{
  <div class="left">
                                  display: flex;
     left
  </div>
  <div class="right">
                             .left{
     right
     right
                                  width: 200px;
  </div>
                                  margin-right: 20px;
</div>
left
                right
                             .right{
                                 flex: 1;
               right
```

```
<div class="parent">
                            .parent{
   <div class="left">
                                display: flex;
     left
   </div>
   <div class="right">
                            .left{
     right
      right
                                margin-right: 20px;
   </div>
</div>
                            .right{
left
               right
                                flex: 1;
               right
                             left p{width: 200px;}
           不定宽
 不定宽
                            自适应
<div class="parent">
                         .left,.center{
  <div class="left">
  left</div>
                             float: left;
                             margin-right: 20px;
  <div class="center">
  .right{
     right
                              overflow: hidden;
  </div>
</div>
                         .left p,.center p{
left
        center
               right
                              width: 100px;
               right
                      1
   1
             1
                               1
```

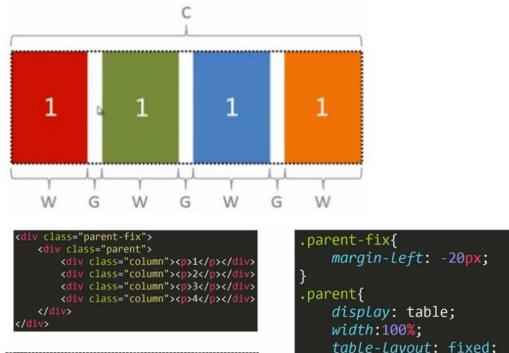
float



 $C = W*N + G*(N-1) \rightarrow C + G = (W+G)*N$



解决方案:



1 2 3 4

```
margin-left: -20px;
}
.parent{
    display: table;
    width:100%;
    table-layout: fixed;
}
.column{
    display: table-cell;
    padding-left: 20px;
}
```

flex

Hello World Hello World Hello World

Hello World Hello World Hello World Hello World Hello World Hello World Hello World Hello World Hello World Hello World Hello World Hello World

等高布局:

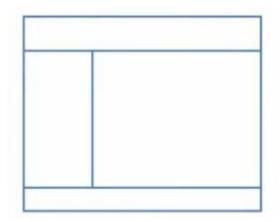
```
<div class="parent">
                             .parent{
  <div class="left">
                                  display: table; width: 100%;
  left</div>
                                  table-layout: fixed;
  <div class="right">
     right
                             .left,.right{
     right
  </div>
                                 display: table-cell;
                             .left{
left .
        right
                                 width: 100px;
                                 padding-right: 20px;
        right
```

flex

```
<div class="parent">
                              .parent{
   <div class="left">
                                  display: flex;
     left
   </div>
   <div class="right">
                             .left{
      right
      right
                                  width: 100px;
   </div>
                                  margin-right: 20px;
</div>
left
         right
                             .right{
                                  flex: 1;
         right
```

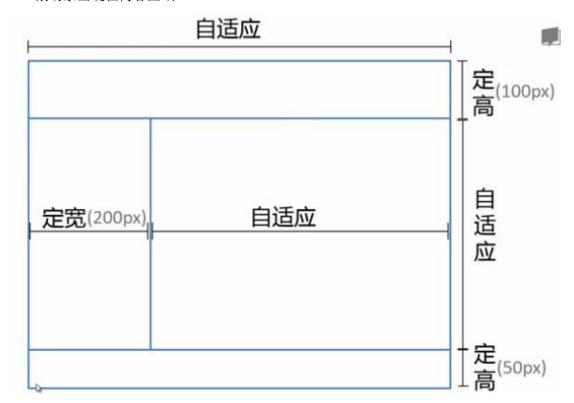
float

全屏布局



特点:

- 更面撑满浏览器窗口,当浏览器窗口变大时,页面也随着变大。
- 滚动条出现在内容区域



实现方案:

- position
- Flex

Position

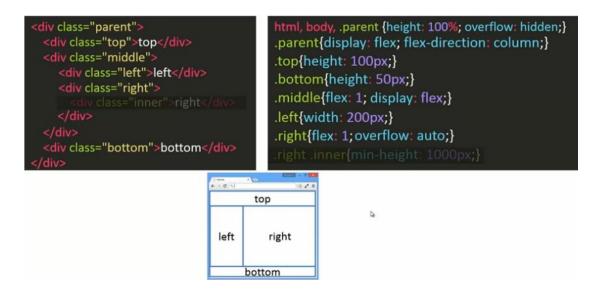
```
ntml, body, .parent {height: 100%; overflow: hidden;}
div class="parent":
 <div class="top">top</div>
<div class="left">left</div>
                                         .top {
                                           position: absolute;top:0;left:0;right:0;height:100px;
 <div class="right">
                                         .left {
                                           position: absolute;left:0;top:100px;bottom:50px;
 <div class="bottom">bottom</div>
                                           width:200px;
                                        .right {
                        3 .′ ≣
                                           position: absolute; overflow: auto;
             top
                                           left:200px;right:0;top:100px;bottom:50px;
                                         .bottom {
    left
                right
                                           position: absolute;left:0;right:0;bottom:0;
                                           height:50px;
           bottom
```

Position(兼容)

- IE6 不支持
- Hack 方案: http://nec.netease.com/library/141027

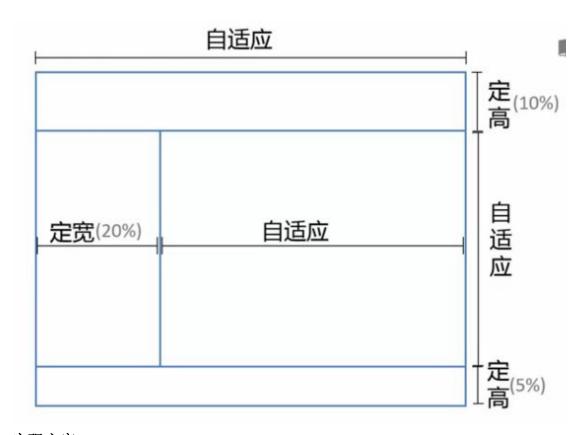


Flex



Flex(兼容)

● IE9 及以下不兼容



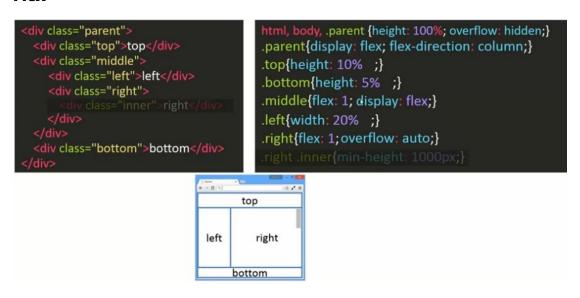
实现方案:

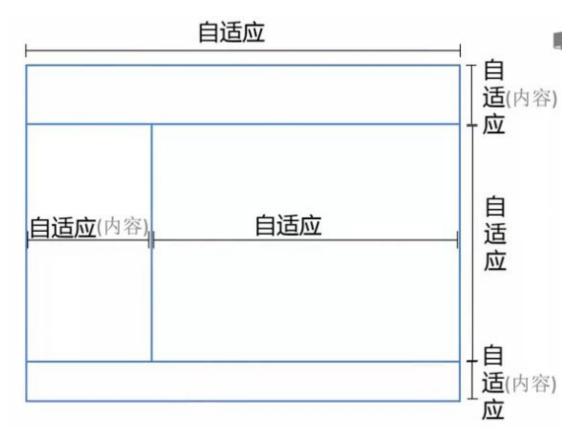
- position
- Flex

Position

```
<div class="parent">
                                       html, body, .parent {height: 100%; overflow: hidden;}
 <div class="top">top</div>
<div class="left">left</div>
                                       .top {
                                         position: absolute;top:0;left:0;right:0;height:10%
 <div class="right">
                                       .left {
                                         position: absolute; left:0;top:10% ;bottom:5% ;
 <div class="bottom">bottom</div>
                                         width:20%;
                                       .right {
   d . ≡
                                         position: absolute; overflow: auto;
             top
                                         left:20% ;right:0;top:10% ;bottom:5% ;
                                       .bottom {
                                         position: absolute;left:0;right:0;bottom:0;
    left
                right
                                         height: 5%;
           bottom
```

Flex

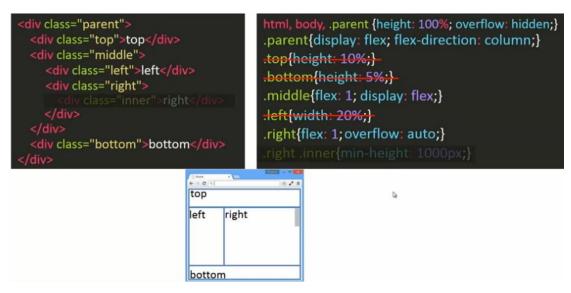




实现方案

- Position ×
- Flex √
- Grid √

Flex(自适应)



Grid(自适应)

参考: http://www.w3cplus.com/css3/grid.html

https://www.w3.org/TR/2012/WD-css3-grid-layout-20120322/

总结:

	方案	兼容性	性能	自适应
•	Position	好。	好	部分自适应
•	Flex	较差	差	可自适应
0	Grid	差	较好	可自适应