Tables

Web development I: Front-end engineering
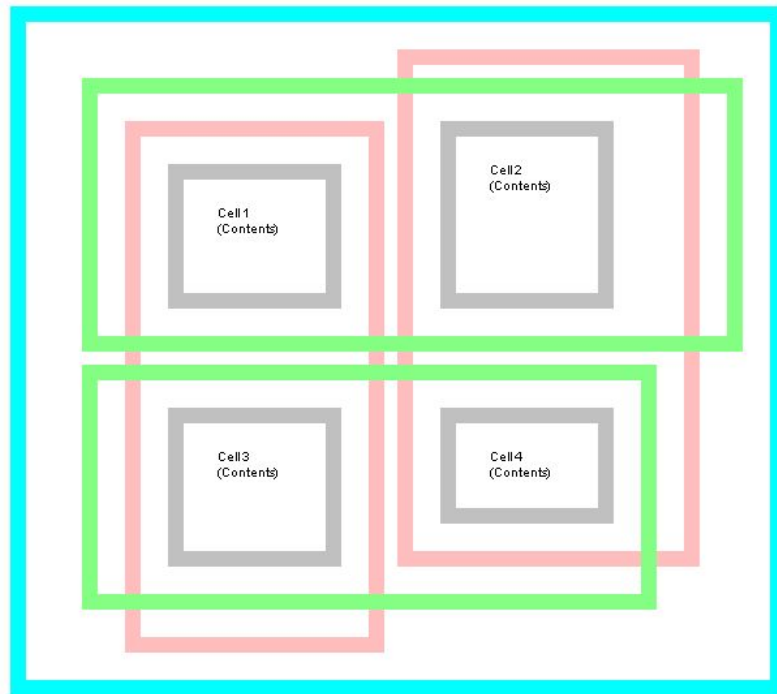
How tables are used

Tables are for **tabular data**

- Cells arranged into rows and columns

Basic HTML Table

Level1	Level2	Level3	Info	Name
System	System Apps	SystemEnv	App Test	foo
			App Memory	foo
			App Test	bar
		SystemEnv2	App Test	bar
	System Memory	Memeory Test	Memory Func	foo
			Apes Test	foo

Basic markup

```
<table>

<tr>      <th>Menu item</th>    <th>Calories</th>    <th>Fat (g)</th>      </tr>

<tr>      <td>Chicken Noodle
          Soup</td>            <td>120</td>         <td>2</td>           </tr>

<tr>      <td>Caesar Salad</td> <td>400</td>         <td>26</td>          </tr>

</table>
```

See `<th>` (**t**able **h**eading), `<tr>` (**t**able **r**ow), `<td>` (**t**able **d**ata)

Semantic markup

`<table>`   The table element

    `<caption>`   Table caption: describe content

    `<colgroup>`   Group of columns

    `<col>`   Column description

    `<thead>`   Table header: column names

    `<tbody>`   Table body: primary content

    `<tfoot>`   Table footer: secondary content

Spanning cells

```html
<table>

  <tr>

    <th colspan="2">Fat</th>

  </tr>

  <tr>

    <td>Saturated Fat (g)</td>

    <td>Unsaturated Fat (g)</td>

  </tr>

</table>
```

Fat	
Saturated Fat (g)	Unsaturated Fat (g)

Spanning cells

```html
<table>

  <tr>

    <th rowspan="3">Serving Size</th>

    <td>Small (8oz.)</td>

  </tr>

  <tr>

    <td>Medium (16oz.)</td>

  </tr>

  <tr>

    <td>Large (24oz.)</td>

  </tr>

</table>
```
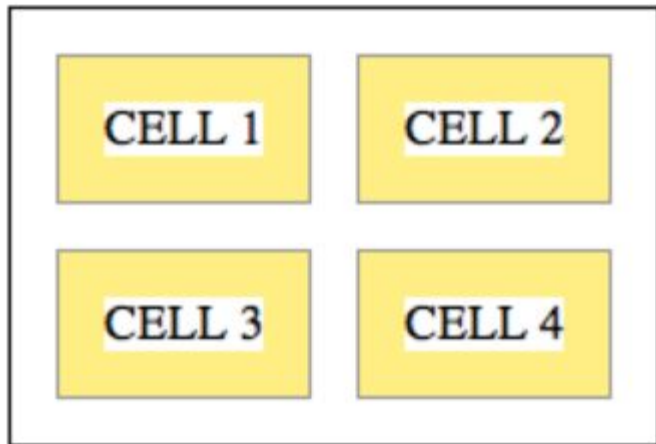
Serving Size	Small (8oz.)
	Medium (16oz.)
	Large (24oz.)

Space in and between cells

Cell padding

Cell spacing

Connecting cells and headers

Scope

```
<tr>
  <th scope="row">Mars</th>
  <td>.95</td>
  <td>.62</td>
  <td>0</td>
</tr>
```

Headers

```
<tr>
  <th id="diam">Diameter (in cm)</th>
  …
  <td headers="diam">.38</td>
</tr>
```

Both are extremely useful for **accessibility** reasons