JavaScript Sample

This document shows precipitation values for several cities (taken from the cities’ respective Wikipedia articles). JavaScript is used to create graphs and improve the look of the table.

This sample includes several external style sheets and script files:

- **script.js** Retrieves data from the HTML table, calculates totals and passes them to Flotr.
- **flotr2.min.js** A popular Open Source JavaScript library to create graphs.
- **awesomizr.js** A RealObjects-made JavaScript library used to transform table headers.
- **style.css** Styles tables with advanced CSS3 properties and selectors.

<table>
<thead>
<tr>
<th>City</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>September</th>
<th>October</th>
<th>November</th>
<th>December</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>New York City</td>
<td>71.1</td>
<td>65.5</td>
<td>88.4</td>
<td>77.7</td>
<td>101.3</td>
<td>95.8</td>
<td>94.5</td>
<td>74.2</td>
<td>94.5</td>
<td>86.4</td>
<td>80.5</td>
<td>77.5</td>
<td>1007.4</td>
</tr>
<tr>
<td>Los Angeles</td>
<td>79.2</td>
<td>96.5</td>
<td>61.7</td>
<td>6.6</td>
<td>2.3</td>
<td>0.3</td>
<td>1</td>
<td>6.1</td>
<td>16.8</td>
<td>26.4</td>
<td>59.2</td>
<td>379.2</td>
<td></td>
</tr>
<tr>
<td>San Francisco</td>
<td>114.3</td>
<td>113</td>
<td>82.6</td>
<td>37.1</td>
<td>18</td>
<td>4.1</td>
<td>0</td>
<td>1.5</td>
<td>5.3</td>
<td>28.4</td>
<td>80.3</td>
<td>115.8</td>
<td>600.4</td>
</tr>
</tbody>
</table>

**Precipitation [mm] per month**

**Total precipitation [mm] comparison**

- New York City: 33.05%
- Los Angeles: 20.23%
- San Francisco: 12.78%
- Washington, D.C.: 33.94%
<table>
<thead>
<tr>
<th>City</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>September</th>
<th>October</th>
<th>November</th>
<th>December</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washington, D.C.</td>
<td>69.1</td>
<td>68.8</td>
<td>80.5</td>
<td>68.8</td>
<td>93.0</td>
<td>85.9</td>
<td>96.5</td>
<td>99.3</td>
<td>84.1</td>
<td>76.7</td>
<td>79.2</td>
<td>79.2</td>
<td>981.1</td>
</tr>
<tr>
<td>Boston</td>
<td>85.3</td>
<td>82.6</td>
<td>109.7</td>
<td>95</td>
<td>88.4</td>
<td>93.5</td>
<td>87.1</td>
<td>83.6</td>
<td>87.4</td>
<td>100.1</td>
<td>101.3</td>
<td>96</td>
<td>1110</td>
</tr>
<tr>
<td>Berlin</td>
<td>42.3</td>
<td>33.3</td>
<td>40.5</td>
<td>53.8</td>
<td>68.7</td>
<td>55.5</td>
<td>58.2</td>
<td>45.1</td>
<td>37.3</td>
<td>43.6</td>
<td>55.3</td>
<td>550.7</td>
<td></td>
</tr>
<tr>
<td>Stockholm</td>
<td>39</td>
<td>27</td>
<td>26</td>
<td>30</td>
<td>30</td>
<td>72</td>
<td>66</td>
<td>55</td>
<td>50</td>
<td>53</td>
<td>46</td>
<td>569</td>
<td></td>
</tr>
<tr>
<td>Cape Town</td>
<td>15</td>
<td>17</td>
<td>20</td>
<td>41</td>
<td>69</td>
<td>93</td>
<td>82</td>
<td>77</td>
<td>40</td>
<td>30</td>
<td>14</td>
<td>17</td>
<td>515</td>
</tr>
</tbody>
</table>

*Precipitation [mm] per month*

**Awesomizr**

RealObjects provides you its Open Source JavaScript library Awesomizr. This library provides among other things a function that can be used to rotate the header of any table in an arbitrary angle, by using CSS3 transforms.

**Usage**

Transform a table by including the library in your document and calling the `rotateTableHeader` function in your JavaScript code. Awesomizr will automatically create a `<thead>` element from the first row in the specified table if no such element is present.

```html
<script type="text/javascript" src="awesomizr.js"></script>
<script type="text/javascript">
...
Awesomizr.rotateTableHeader(table, params);
</script>
```

- `table` The HTML node of the table to transform.
- `params` An object of optional parameters.

In the PDFreactor manual, you can find more information on the optional parameters and other functionality of the awesomizr library.

**Example**

```javascript
Awesomizr.rotateTableHeader(document.getElementById("myTable"), { angle: 40, width: "20pt" });
```
In July 2011 the Space Shuttle Atlantis went on its 135th and final mission into space, transporting hardware to the International Space Station.