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.

### Precipitation [mm] per month

<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>23.1</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>
</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 year

![Graph showing precipitation per year for various cities]
<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>37.1</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>570.7</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>46</td>
<td>569</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. The Final Mission

Mission Facts

- **Category:** Space Shuttle Program
- **Mission:** STS-135
- **Crew:** 7
- **Launch Date:** May 14, 2011
- **Duration:** 12 days
- **Distance Travelled:** 8,505,161 km
- **Landing:** Edwards Air Force Base, California

**Usage**

You can use JavaScript to retrieve the number of pages of a PDF image object, and automatically generate a PDF image for each page by creating an image element for each page, where you can set the page to be displayed through the CSS property -ro-source-page.

**Example**

The image contains a page from a document about the Space Shuttle program, highlighting the final mission of Atlantis and providing details such as the mission duration, distance traveled, and landing location. The page also includes images of the shuttle in space and various mission facts. The document is designed to be embedded within a PDF image through CSS properties and JavaScript, allowing for dynamic page counting and display.

(Images and textual content from various sources, including NASA images and space exploration resources.)