

## data-vis\tech-diversity-race.js

```
1 function TechDiversityRace() {
2
3   // Name for the visualisation to appear in the menu bar.
4   this.name = 'Race Tech Diversity';
5
6   // Each visualisation must have a unique ID with no special
7   // characters.
8   this.id = 'tech-diversity-race';
9
10  // Property to represent whether data has been loaded.
11  this.loaded = false;
12
13  // Preload the data. This function is called automatically by the
14  // gallery when a visualisation is added.
15  this.preload = function() {
16    var self = this;
17    this.data = loadTable(
18      './data/tech-diversity/race-2018.csv', 'csv', 'header',
19      // Callback function to set the value
20      // this.loaded to true.
21      function(table) {
22        self.loaded = true;
23      });
24  };
25
26  this.setup = function() {
27    if (!this.loaded) {
28      console.log('Data not yet loaded');
29      return;
30    }
31
32    // Create a select DOM element.
33    this.select = createSelect();
34    this.select.position(0.36 * width, 0.18 * height);
35
36    // Fill the options with all company names.
37    var companies = this.data.columns;
38    // First entry is empty.
39    for (let i = 1; i < companies.length; i++) {
40      this.select.option(companies[i]);
41    }
42  };
43
44  this.destroy = function() {
45    this.select.remove();
46  };
47
48  // Create a new pie chart object.
49  this.pie = new PieChart(900, height / 1.7, width * 0.3);
50
51  this.draw = function() {
```

```
52     if (!this.loaded) {
53         console.log('Data not yet loaded');
54         return;
55     }
56
57     // Get the value of the company we're interested in from the
58     // select item.
59     var companyName = this.select.value();
60
61     // Get the column of raw data for companyName.
62     var col = this.data.getColumn(companyName);
63
64     // Convert all data strings to numbers.
65     col = stringsToNumbers(col);
66
67     // Copy the row labels from the table (the first item of each row).
68     var labels = this.data.getColumn(0);
69
70     //----- START NEW CODE -----
71     -//
72     // Colour to use for each category.
73     let colours = [
74         color('#002147'), // Royal Blue
75         color('#C8102E'), // Scarlet Red
76         color('#FFD700'), // Gold
77         color('#007A33'), // Emerald Green
78         color('#4B0082'), // Deep Purple
79         color('#A8A9AD') // Silver Gray
80     ];
81     //----- END NEW CODE -----//
82
83     // Make a title.
84     var title = 'Employee diversity at ' + companyName;
85
86     // Draw the pie chart!
87     this.pie.draw(col, labels, colours, title);
88 }
89
```