

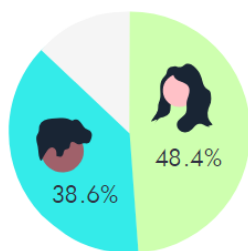
The website was based on Bootstrap. CSS was used to determine the style and layout, HTML was used to build structure and JavaScript was used to add interactivity and functionality.

The choice of visualisation should depend on data characteristics, target audience and visualisation purpose.

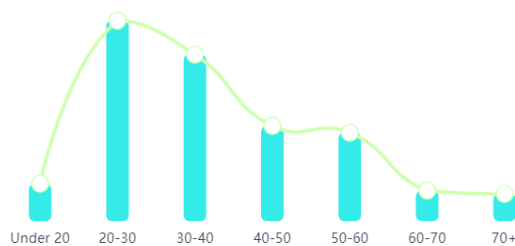
Catalogue: <https://datavizcatalogue.com/index.html>

Tools: <https://plot.ly/python/>, <https://d3js.org/>, <https://www.tableau.com/>

Park Users



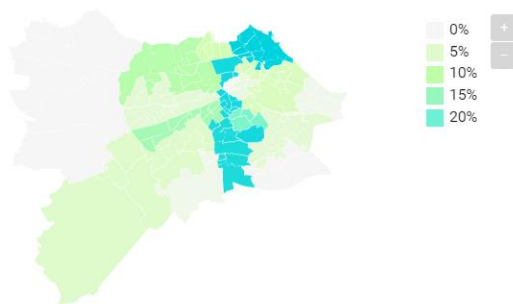
Adobe XD (<https://www.adobe.com/uk/products/xd.html>) was used to create this static pie chart to make it visually appealing. It's a free design tool.



This is a combination of a line chart and a bar chart, based on one example from ECharts

(<https://echarts.apache.org/en/index.html>)

It's free and open-sourced.



This map was created by Datawrapper (<https://www.datawrapper.de/>), there is no programming requirement, people can create a chart by uploading a data set. Creating a map needs geographic data, I imported both a Geojson file of Edinburgh and the data of postcode to generate this.

It's free with the Datawrapper attribution, users have to pay for a Custom or Enterprise plan to remove it.

Activities



This visualisation is different from traditional charts, I created an attractive scene with people doing different things to show the data of activities.

I used Adobe XD to create this background and different graphics with different size to indicate the activities and their percentages.

Hover effect was applied to achieve interaction and information display.

<https://miketricking.github.io/bootstrap-image-hover/>

All images are in SVG to be able to scalable on different devices without sacrificing image quality in small file size.

Feedback



This visualisation combined pictographs and word maps, the former enables people to know the general meanings and their proportions, and the later provides further

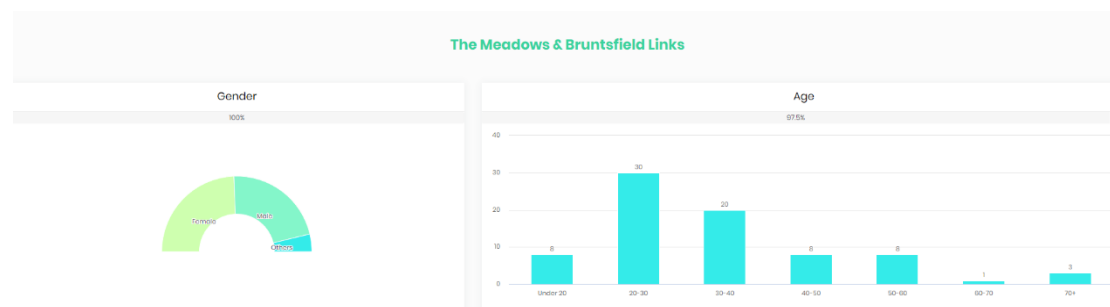
explanation based on every response.

Icons were downloaded from <https://www.flaticon.com/> , it's free with attribution.

Maps were created on <https://wordart.com/> , there are more tools can be used to create word maps.

Related JavaScript codes built the interaction and connection between the icons and word maps.

Dashboard



All dashboard charts were created by using Highcharts (<https://www.highcharts.com/>).

It's a JavaScript library, which is free for non-commercial users.

After installing it or adding its JS file, I customised its theme colour and introduced related data to generate these charts.

Code Example:

```
Highcharts.chart('frequency',{
  chart: {
    type: 'column',
    style: {
      fontFamily: 'Poppins',
      fontSize: '14px',
    }
  },
  title: {
    text: ''
  },
  credits: {
    enabled: false
  },
  xAxis: {
    categories: [
      'Daily', '5-6/week', '3-4/week', '1-2/week', 'Multiple/month', '1/month', '1/two months', 'Depends'
    ]
  },
  yAxis: {
    title: 'Frequency'
  }
});
```

```
    },
    yAxis: {
      min: 0,
      title: {
        text: ''
      }
    },
    legend:{enabled: false},
    plotOptions: {
      column: {
        borderWidth: 0
      }
    },
    series: [{
      name: 'Number',
      data: [10, 11, 8, 24, 2, 4, 3, 6],
      color: '#CEFFAF'
    }]
  });
```