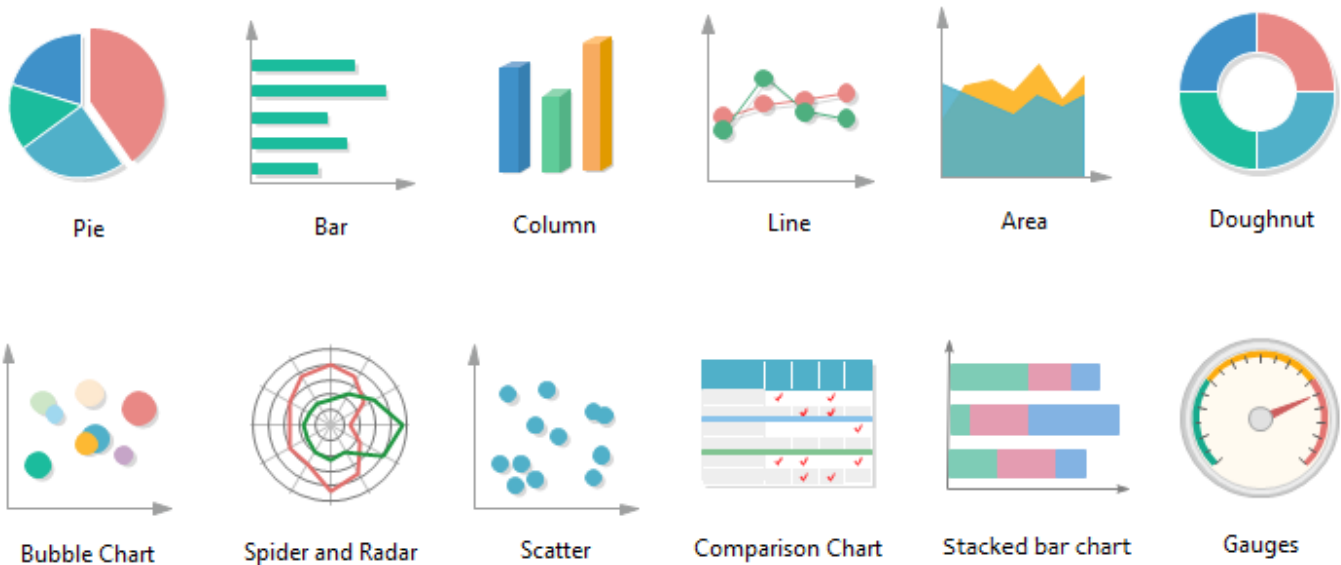


Graphs and Charts in Razor Pages

Types of Charts



[source](#)

Drawing charts with Chart.js

Setup

1. Once you have your project created on Visual Studio, right-click on your project (not solution), and select *Manage client-side libraries*
2. A `libman.json` file will open up. Add the chartjs library to it.

```
{
  "version": "1.0",
  "defaultProvider": "cdnjs",
  "libraries": [
    { //add this block of code
      "library": "Chart.js@4.3.0",
      "destination": "wwwroot/lib/chartjs"
    }
  ]
}
```

3. Hit Ctrl-S to save and Visual Studio will download the package to your destination folder (wwwroot/lib/chartjs in this case).
4. Install the latest version of **Newtonsoft.Json** from NuGet.

5. Go to this [Google drive link](#) and download all the files inside the "ChartJs Files" folder. Add them to your project inside a Models folder.
6. Once you have your models in a folder in your project, the next step is to add the JavaScript to the `_Layout.cshtml` as the last line in HTML:

```
<script type="module" src="~/lib/chartjs/chart.umd.js"></script>
```

Using Chart.js inside index.cshtml

1. Create a canvas

```
<div class="chart-container" width="600" height="400">
  <canvas id="barChart"></canvas>
</div>
```

2. Add the script to create the chart.

```
<script type="module">
  document.addEventListener('DOMContentLoaded', (event) => {

    var ctx = document.getElementById('barChart');
    var myChart = new Chart(ctx, @Html.Raw(Model.ChartJson) );
  });
</script>
```

3. To finish this project, we need to write the "code-behind" for the OnGet method.

```
public class IndexModel : PageModel
{
    public ChartJs Chart { get; set; }
    public string ChartJson { get; set; }

    public void OnGet()
    {
        // Ref: https://www.chartjs.org/docs/latest/
        var chartData = @"
        {
            type: 'bar',
            responsive: true,
            data:
            {
                labels: ['Red', 'Blue', 'Yellow', 'Green', 'Purple', 'Orange'],
```

```

        datasets: [{
            label: 'Favourite Colors Votes',
            data: [12, 19, 3, 5, 2, 3],
            backgroundColor: [
                'rgba(255, 99, 132, 0.2)',
                'rgba(54, 162, 235, 0.2)',
                'rgba(255, 206, 86, 0.2)',
                'rgba(75, 192, 192, 0.2)',
                'rgba(153, 102, 255, 0.2)',
                'rgba(255, 159, 64, 0.2)'
            ],
            borderColor: [
                'rgba(255, 99, 132, 1)',
                'rgba(54, 162, 235, 1)',
                'rgba(255, 206, 86, 1)',
                'rgba(75, 192, 192, 1)',
                'rgba(153, 102, 255, 1)',
                'rgba(255, 159, 64, 1)'
            ],
            borderWidth: 1
        }]
    },
    options:
    {
        scales:
        {
            y: [{
                ticks:
                {
                    beginAtZero: true
                }
            }]
        }
    }
}"; //end of chartdata

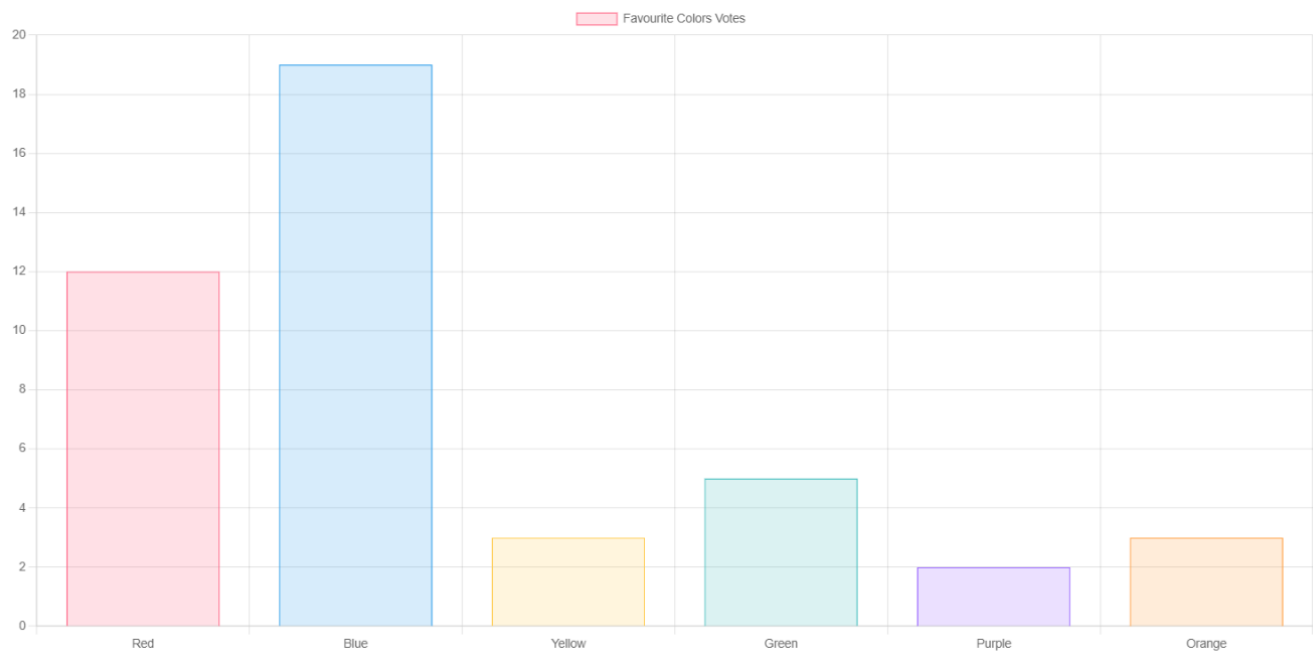
Chart = JsonConvert.DeserializeObject<ChartJs>(chartData);
ChartJson = JsonConvert.SerializeObject(Chart, new JsonSerializerSettings
{
    NullValueHandling = NullValueHandling.Ignore,
});
} //end of OnGet()
} //end of class

```

Output:

[ChartExample](#) [Example1](#) [Example2](#) [Example3](#)

Chart Example 1



Resources and Other Ways of Drawing Charts

- You may look into the Chart Helper, but it only works for .NET Framework projects. It does not work for .NET Core.
- You may also look into Google Charts. It has a fairly similar setup to ChartJs. Here's an article about [Integrating Google Charts in ASP.NET Core](#)
- [Using Google Charts in ASP.NET Core Web App](#)
- Main Reference: [Building charts with razor pages](#)