

Lição do Teams - Gráficos com ChartJS

Rafael Silva Machado

O nome dos arquivos dessa vez são **grafico.html**, **grafico.css** e **grafico.js** e estão organizados novamente nas pastas **HTML**, **CSS** e **JS**.

The screenshot shows a Windows desktop environment with two code editors and a terminal window.

Code Editors:

- Top Editor (HTML):** Displays the `grafico.html` file. The code includes HTML structure, CSS imports, and JavaScript for charting. It features a header with "CADERNOS E TABELAS" and "graficos" sections, and a main content area with three chart containers (bar, line, and radar).
- Bottom Editor (CSS):** Displays the `grafico.css` file. The code defines styles for the entire application, including global styles for body, container, and header, as well as specific styles for the three chart types.

Terminal Window:

A terminal window titled "Rafael Silva Machado" is open, showing the command prompt and the current working directory (`C:\Users\rafael`). The output of the command `title Rafael Silva Machado` is displayed, changing the window title.

System Status:

The taskbar at the bottom shows various pinned icons, including File Explorer, Microsoft Edge, and File History. The system tray indicates the date as 23/10/2023 and the time as 12:16.

The screenshot shows a Windows desktop environment. In the center is a Microsoft Edge browser window displaying a chart titled "Rafael Silva Machado". The chart has two data series: "My First Dataset" (red, blue, yellow, green, purple) and "My Second Dataset" (orange, red, orange). The background is light gray with a grid. To the left of the browser is a code editor window showing a JavaScript file named "grafico.js". The file contains code for creating a radar chart using the Chart.js library. It defines datasets for both "My First Dataset" and "My Second Dataset", each with five data points. The code also includes options for the chart, such as interaction, animation, and plugins. At the bottom of the screen, there is a taskbar with various icons and a system tray.

```
File Edit Selection View Go Run Terminal Help
Q Cadastros-E-Tabelas
EXPLORE CADASTROS-E-TABELAS
grafico.js x grafico.cs
116 type: 'radar',
117 data:
118 labels: ['Parsec', 'TeamViewer', 'Google Remote'],
119 datasets: [
120 label: 'Score do Software de acesso Remoto',
121 data: [10, 19, 3, 5, 2, 3],
122 tension: 0.1
123 ]
124 }
125 }
126
127 const radar = document.getElementById('radar');
128
129 new Chart(radar, {
130 type: 'radar',
131 data: {
132 labels: ['Red', 'Blue', 'Yellow', 'Green', 'Purple'],
133 datasets: [
134 label: 'Ranking Possessos Remotos',
135 data: [65, 59, 90, 81, 56, 95],
136 pointRadius: 5,
137 fill: true,
138 backgroundColor: '#rgb(255, 99, 132, 0.2)',
139 houseBackgroundColor: '#rgb(255, 99, 132, 0.5)',
140 borderColor: '#rgb(255, 99, 132, 1.0)',
141 pointBorderColor: '#rgb(255, 99, 132, 1.0),
142 pointBorderWidth: 2,
143 pointBorderRadius: 10
144 label: 'My Second Dataset',
145 data: [28, 48, 40, 19, 96, 22],
146 pointRadius: 5,
147 fill: true,
148 backgroundColor: '#rgb(54, 162, 225, 0.2)',
149 houseBackgroundColor: '#rgb(54, 162, 225, 0.5)',
150 borderColor: '#rgb(54, 162, 225, 1.0),
151 pointBorderColor: '#fff',
152 pointBorderWidth: 2,
153 pointBorderRadius: 10
154 label: 'My First Dataset',
155 data: [65, 59, 90, 81, 56, 95],
156 pointRadius: 5,
157 fill: true,
158 backgroundColor: '#rgb(255, 99, 132, 0.2),
159 houseBackgroundColor: '#rgb(255, 99, 132, 0.5),
160 borderColor: '#rgb(255, 99, 132, 1.0),
161 pointBorderColor: '#fff',
162 pointBorderWidth: 2,
163 pointBorderRadius: 10
164 options: {
165 interaction: {
166 mode: 'dataset',
167 intersect: false
168 },
169 animation: {
170 duration: 500
171 },
172 plugins: {
173 tooltip: {
174 enabled: true
175 }
176 }
177 }
178
179 element: /
```

The screenshot shows a Windows desktop environment. In the top-left corner, there is a file explorer window titled "CADASTROS-E-TABELAS" containing several files and folders related to "grafico.html", "graficos.js", and "grafico.css". The "graficos.js" file is open in the editor, displaying code for a radar chart. In the bottom-right corner, there is a command prompt window titled "Rafael Silva Machado" with the following text:

```
Microsoft Windows [versão 10.0.26100.6899]
(c) Microsoft Corporation. Todos os direitos reservados.

C:\Users\rafael>Title Rafael Silva Machado

C:\Users\rafael>
```

The screenshot shows a Microsoft Edge browser window with four tabs open:

- Gráficos Gerais
- Inicio - Faculdade de Tecnologia
- login
- Chart.js | Chart.js

The active tab is "Chart.js | Chart.js". The page content is as follows:

Chart.js

Welcome to Chart.js!

- Get started with [Chart.js](#) — best if you're new to Chart.js
- Migrate from [Chart.js v3](#) or [Chart.js v2](#)
- Join the community on [Discord](#) and [Twitter](#)
- Post a question tagged with `chart.js` on [Stack Overflow](#)
- Contribute to [Chart.js](#)

Why Chart.js

Among many charting libraries for JavaScript application developers, Chart.js is currently the most popular one according to [GitHub stars](#) (~60,000) and [npm downloads](#) (~2,400,000 weekly). Chart.js was created and [announced](#) in 2013 but has come a long way since then. It's open-source, licensed under the very permissive [MIT license](#), and maintained by an active community.

Features

Chart.js provides a set of frequently used chart types, plugins, and customization options. In addition to a reasonable set of [built-in chart types](#), you can use additional community-maintained [chart types](#). On top of that, it's possible to combine several chart types into a [mixed chart](#) (essentially, blending multiple chart types into one on the same canvas).

Chart.js is highly customizable with [custom plugins](#) to create annotations, zoom, or drag-and-drop functionalities to name a few things.

Defaults

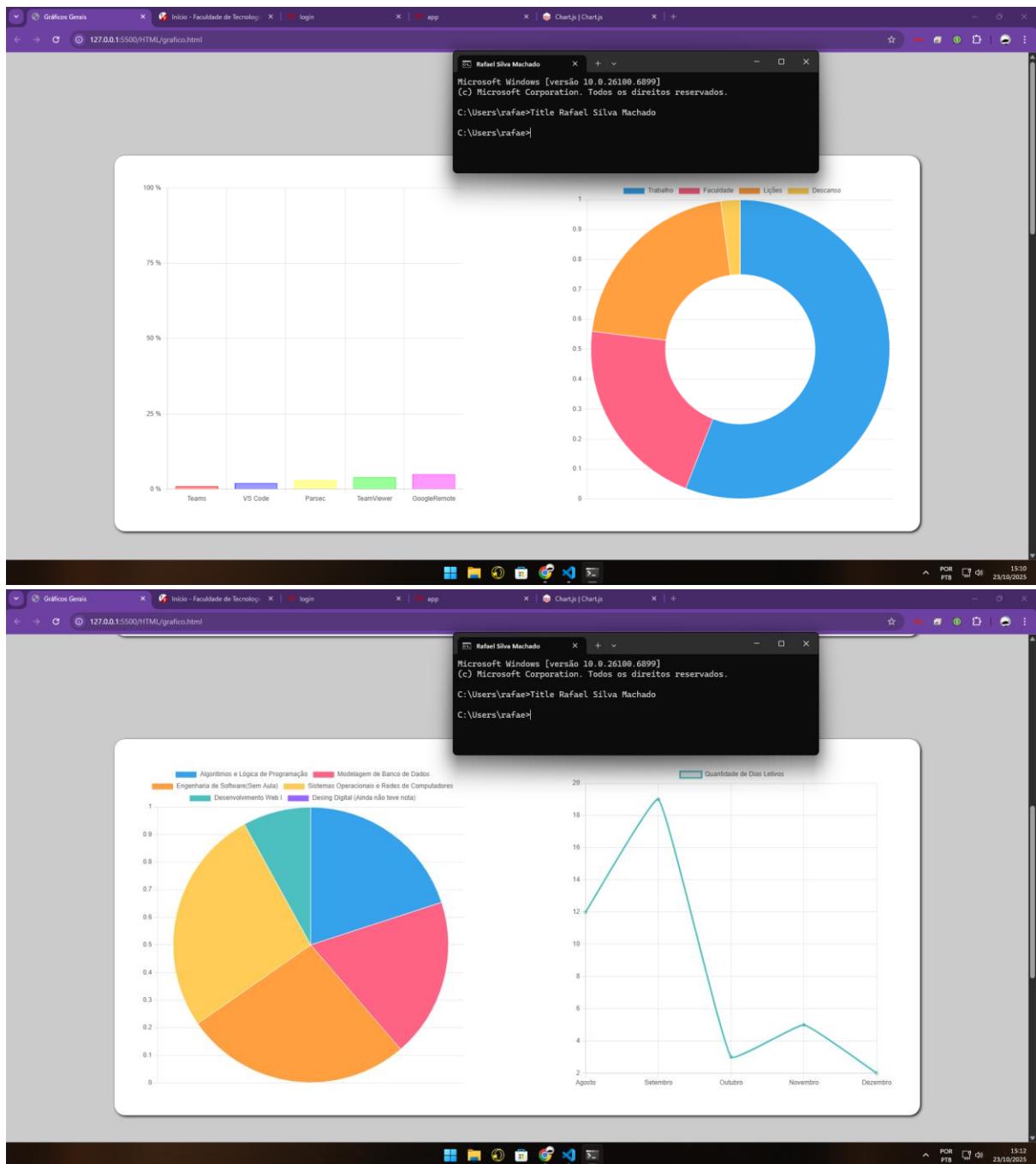
Chart.js comes with a sound default configuration, making it very easy to start with and get an app that is ready for production. Chances are you will get a very appealing chart even if you don't specify any options at all. For instance, Chart.js has animations turned on by default, so you can instantly bring attention to the story you're telling with the data.

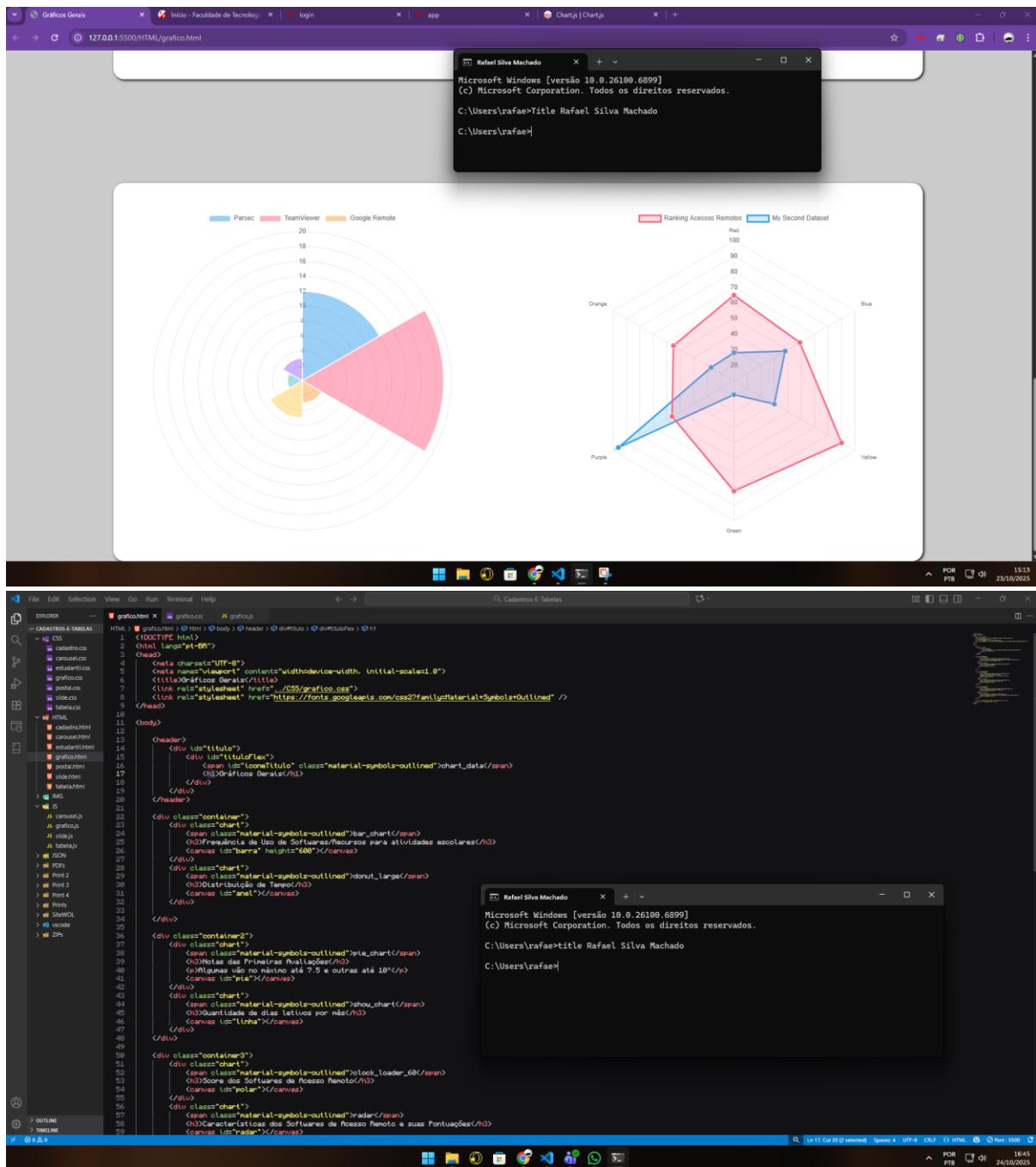
Integrations

Chart.js comes with built-in [TypeScript](#) typings and is compatible with all popular [JavaScript frameworks](#), including [React](#), [Vue](#), [Svelte](#), and [Angular](#). You can use Chart.js directly or leverage well-

Microsoft Windows [versão 10.0.26100.6899]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\rafael>Title Rafael Silva Machado
C:\Users\rafael>

POF FIB 23/10/2023 12:35





```
File Edit Selection View Go Run Terminal Help
... grafico.html x graficos.js js gráfico...
HTML > graficos.js > rem > body > div.container > div.chart > canvas#radar
1 <html lang="pt-BR">
2   <head>
3     <meta charset="UTF-8" />
4     <title> Cadastros-E-Tabelas </title>
5     <link href="css/cadastro.css" rel="stylesheet" />
6     <link href="css/cadastros.css" rel="stylesheet" />
7     <link href="css/grafico.css" rel="stylesheet" />
8     <link href="css/pesquisa.css" rel="stylesheet" />
9     <link href="css/sistema.css" rel="stylesheet" />
10    <link href="css/tabela.css" rel="stylesheet" />
11
12    <script src="js/cadastro.js" type="text/javascript" />
13    <script src="js/cadastros.js" type="text/javascript" />
14    <script src="js/grafico.js" type="text/javascript" />
15    <script src="js/pesquisa.js" type="text/javascript" />
16    <script src="js/sistema.js" type="text/javascript" />
17    <script src="js/tabela.js" type="text/javascript" />
18
19</head>
20
21<body>
22
23  <div class="container">
24    <div class="chart">
25      <span class="material-symbols-outlined">bar_chart</span>
26      <h3>Prevalência de uso de Softwares/Móveis para atividades escolares</h3>
27      <canvas id="barra" height="200" width="1000" data-bbox="250 250 550 450" data-kind="parent"></canvas>
28    </div>
29
30    <div class="chart">
31      <span class="material-symbols-outlined">donut_large</span>
32      <h3>Distribuição de Gênero</h3>
33      <canvas id="anel" width="300" height="300" data-bbox="580 250 880 450" data-kind="parent"></canvas>
34    </div>
35
36  </div>
37
38  <div class="container2">
39    <div class="chart">
40      <span class="material-symbols-outlined">pie_chart</span>
41      <h3>Quantidade das Idades das Pessoas</h3>
42      <canvas id="pote" width="300" height="300" data-bbox="250 480 550 680" data-kind="parent"></canvas>
43    </div>
44
45    <div class="chart">
46      <span class="material-symbols-outlined">show_chart</span>
47      <h3>Quantidade de dias letivos por mês</h3>
48      <canvas id="linha" width="300" height="300" data-bbox="580 480 880 680" data-kind="parent"></canvas>
49    </div>
50
51  </div>
52
53  <div class="chart">
54    <span class="material-symbols-outlined">clock_loader_60</span>
55    <h3>Características do Software Moisés Remoto</h3>
56    <canvas id="polar" width="300" height="300" data-bbox="250 710 550 910" data-kind="parent"></canvas>
57  </div>
58
59  <div class="chart">
60    <span class="material-symbols-outlined">radar</span>
61    <h3>Características dos Softwares de Moisés Remoto e suas Pontuações</h3>
62    <canvas id="radar" width="300" height="300" data-bbox="580 710 880 910" data-kind="parent"></canvas>
63
64  </div>
65
66</body>
67</html>
```

The screenshot shows a Windows desktop environment with a code editor and a terminal window.

Code Editor (VS Code):

- File Explorer:** Shows a tree view of files and folders. Visible items include:
 - CADASTROS E TABELAS
 - css (grafo.css)
 - html (cadastro.html, causas.html, estudantes.html, grafico.html, lista.html, tabelas.html)
 - img
 - js (causas.js, estudo.js, grafico.js, lista.js, tabelas.js)
 - json
 - pdfs
 - print1
 - print2
 - print3
 - print4
 - prints
 - sheetwol
 - vscode
 - zips
- Editor Area:** Displays the content of the `grafico.css` file. The code defines styles for a canvas element, including its width, height, and styling like border-radius and box-shadow.

Terminal Window:

- Title Bar:** Refel Silva Machado
- Content:** Microsoft Windows [versão 10.0_26100_6899]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\rafae>title Rafael Silva Machado
C:\Users\rafae>


```
File Edit Selection View Go Run Terminal Help
C:\ Cadastros-E-Tabelas
graphicos.js
1 const barra = document.getElementById('barra');
2
3 new ChartBarra, {
4   type: 'bar',
5   data: {
6     labels: ['Tampa', 'VS Code', 'Passeio', 'TeamViewer', 'GoogleMeets'],
7     datasets: [
8       {
9         borderWidth: 2,
10         borderColor: '#E91E63',
11         data: [20, 120, 130, 255, 1],
12         backgroundColor: [
13           'rgba(142, 130, 255, 0.4)',
14           'rgba(6, 225, 255, 0.4)',
15           'rgba(255, 0, 0, 0.4)',
16           'rgba(255, 149, 0, 0.4)',
17           'rgba(255, 150, 0, 0.4)'
18         ],
19         label: 'Frequência de Uso de Softwares/Recursos para atividades escolares',
20         data: [20, 65, 15, 98, 98],
21         borderWidth: 1
22       }
23     ],
24     options: {
25       plugins: {
26         legend: {
27           display: false
28         },
29         tooltip: {
30           enabled: true
31         }
32       },
33       scales: {
34         y: {
35           min: 0,
36           max: 100,
37           ticks: {
38             stepSize: 25,
39             callback: function(value) {
40               return value + ' %';
41             }
42           }
43         }
44       }
45     }
46   }
47 }
48
49 const anal = document.getElementById('anal');
50
51 new ChartAnal, {
52   type: 'doughnut',
53   data: {
54     labels: ['Trabalho', 'Faculdade', 'Lições', 'Descanso'],
55     datasets: [
56       {
57         label: 'Distribuição de Tempo: Em Horas',
58         data: [8, 3, 5, 0.3],
59         borderWidth: 1
60       }
61     ]
62   }
63 }
64
65 options: {
66   responsive: true,
67   maintainAspectRatio: false,
68   scales: {
69     y: {
70       beginAtZero: true
71     }
72   }
73 };
74 );
75
76 const pie = document.getElementById('pie');
77
78 new ChartPie, {
79   type: 'pie',
80   data: {
81     labels: ['Algoritmos e Lógica de Programação', 'Modelagem de Banco de Dados', 'Engenharia de Software(Sem Aula)', 'Sistemas Operacionais e Redes de Computadores', 'Desenvolvimento Web I'],
82     datasets: [
83       {
84         label: 'Notas',
85         data: [9.5, 7, 10, 10, 3, 0],
86         borderWidth: 1
87       }
88     ]
89   }
90   backgroundColor: [
91     'rgba(255, 255, 0, 0.6)',
92     'rgba(255, 0, 123, 0.6)',
93     'rgba(214, 66, 255, 0.6)',
94     'rgba(255, 149, 0, 0.6)',
95     'rgba(255, 150, 0, 0.6)',
96     'rgba(76, 255, 157, 0.6)'
97   ];
98
99 options: {
100   responsive: true,
101   maintainAspectRatio: false,
102   scales: {
103     y: {
104       beginAtZero: true
105     }
106   }
107 };
108
109 const linha = document.getElementById('linha');
110 new ChartLinha, {
```

```
File Edit Selection View Go Run Terminal Help
C:\ Cadastros-E-Tabelas
graphicos.js
1 const barra = document.getElementById('barra');
2
3 new ChartBarra, {
4   type: 'bar',
5   data: {
6     labels: ['Tampa', 'VS Code', 'Passeio', 'TeamViewer', 'GoogleMeets'],
7     datasets: [
8       {
9         borderWidth: 2,
10        borderColor: '#E91E63',
11        data: [20, 120, 130, 255, 1],
12        backgroundColor: [
13          'rgba(142, 130, 255, 0.4)',
14          'rgba(6, 225, 255, 0.4)',
15          'rgba(255, 0, 0, 0.4)',
16          'rgba(255, 149, 0, 0.4)',
17          'rgba(255, 150, 0, 0.4)'
18        ],
19        label: 'Frequência de Uso de Softwares/Recursos para atividades escolares',
20        data: [20, 65, 15, 98, 98],
21        borderWidth: 1
22      }
23    ],
24    options: {
25      plugins: {
26        legend: {
27          display: false
28        },
29        tooltip: {
30          enabled: true
31        }
32      },
33      scales: {
34        y: {
35          min: 0,
36          max: 100,
37          ticks: {
38            stepSize: 25,
39            callback: function(value) {
40              return value + ' %';
41            }
42          }
43        }
44      }
45    }
46  }
47 }
48
49 const anal = document.getElementById('anal');
50
51 new ChartAnal, {
52   type: 'doughnut',
53   data: {
54     labels: ['Trabalho', 'Faculdade', 'Lições', 'Descanso'],
55     datasets: [
56       {
57         label: 'Distribuição de Tempo: Em Horas',
58         data: [8, 3, 5, 0.3],
59         borderWidth: 1
60       }
61     ]
62   }
63 }
64
65 options: {
66   responsive: true,
67   maintainAspectRatio: false,
68   scales: {
69     y: {
70       beginAtZero: true
71     }
72   }
73 };
74 );
75
76 const pie = document.getElementById('pie');
77
78 new ChartPie, {
79   type: 'pie',
80   data: {
81     labels: ['Algoritmos e Lógica de Programação', 'Modelagem de Banco de Dados', 'Engenharia de Software(Sem Aula)', 'Sistemas Operacionais e Redes de Computadores', 'Desenvolvimento Web I'],
82     datasets: [
83       {
84         label: 'Notas',
85         data: [9.5, 7, 10, 10, 3, 0],
86         borderWidth: 1
87       }
88     ]
89   }
90   backgroundColor: [
91     'rgba(255, 255, 0, 0.6)',
92     'rgba(255, 0, 123, 0.6)',
93     'rgba(214, 66, 255, 0.6)',
94     'rgba(255, 149, 0, 0.6)',
95     'rgba(255, 150, 0, 0.6)',
96     'rgba(76, 255, 157, 0.6)'
97   ];
98
99 options: {
100   responsive: true,
101   maintainAspectRatio: false,
102   scales: {
103     y: {
104       beginAtZero: true
105     }
106   }
107 };
108
109 const linha = document.getElementById('linha');
110 new ChartLinha, {
```

Screenshot 1: Code Editor - Cadastros-E-Tabelas

```

File Edit Selection View Go Run Terminal Help
File Explorer ... JS a gráficos.js ...
JS a gráficos.js ...
const linha = document.getElementById('linha');
new Chart(linha, {
  type: 'line',
  data: {
    labels: ['Agosto', 'Setembro', 'Outubro', 'Novembro', 'Dezembro'],
    datasets: [
      {
        label: 'Quantidade de Dias Letivos',
        data: [26, 25, 26, 25, 14],
        fill: false,
        borderColor: 'rgba(255, 84, 84, 1)',
        tension: 0.1
      }
    ],
    options: {
      responsive: true,
      maintainAspectRatio: false,
      scales: {
        y: {
          min: 0,
          max: 30
        }
      }
    }
  }
});
const polar = document.getElementById('polar');
new Chart(polar, {
  type: 'polarArea',
  data: {
    labels: ['Parsed', 'TeamViewer', 'Google Remote'],
    datasets: [
      {
        label: 'Score do Software de Acesso Remoto',
        data: [7, 6, 10],
        tension: 0.1,
        borderColor: [
          'rgba(255, 84, 84, 1)',
          'rgba(255, 255, 255, 1)',
          'rgba(255, 150, 0, 1)'
        ],
        backgroundColor: [
          'rgba(255, 84, 84, 0.4)',
          'rgba(0, 95, 255, 0.4)',
          'rgba(255, 149, 0, 0.4)'
        ]
      }
    ],
    options: {
      responsive: true,
      maintainAspectRatio: false,
      scales: {
        r: {
          ticks: [0, 10, 20, 30]
        }
      }
    }
  }
});

```

Screenshot 2: Code Editor - CADASTROS

```

File Edit Selection View Go Run Terminal Help
File Explorer ... JS a gráficos.js ...
JS a gráficos.js ...
const radar = document.getElementById('radar');
new Chart(radar, {
  type: 'radar',
  data: {
    labels: ['Parse', 'Praticidade', 'Qualidade de Imagen', 'Recursos', 'Conexão com Internet'],
    datasets: [
      {
        label: 'Team Viewer',
        data: [9, 6, 5, 3],
        pointRadius: 5,
        fill: true,
        backgroundColor: 'rgba(255, 99, 132, 0.2)',
        hoverBackgroundColor: 'rgba(255, 99, 132, 0.5)',
        borderColor: 'rgba(255, 99, 132, 1)',
        pointBackgroundColor: 'rgba(255, 99, 132, 1),
        pointBorderWidth: 1,
        pointHoverBackgroundColor: 'rgba(255, 99, 132, 1),
        pointHoverBorderWidth: 10
      }
    ],
    options: {
      responsive: true,
      maintainAspectRatio: false,
      scales: {
        r: {
          ticks: [0, 10, 20, 30]
        }
      }
    }
  }
});
const pc = document.getElementById('pc');
new Chart(pc, {
  type: 'radar',
  data: {
    labels: ['Google Remote Desktop'],
    datasets: [
      {
        label: 'Google Remote Desktop',
        data: [10, 6, 2, 4],
        pointRadius: 5,
        fill: true,
        backgroundColor: 'rgba(255, 162, 235, 0.2)',
        hoverBackgroundColor: 'rgba(255, 175, 162, 0.5)',
        borderColor: 'rgba(255, 162, 235, 1),
        pointBackgroundColor: 'rgba(255, 162, 235, 1),
        pointBorderWidth: 1,
        pointHoverBackgroundColor: 'rgba(255, 175, 162, 0.5),
        pointHoverBorderWidth: 10
      }
    ],
    options: {
      responsive: true,
      maintainAspectRatio: false,
      interaction: {
        mode: 'dataset',
        intersect: false
      },
      animation: {
        duration: 500
      }
    }
  }
});

```

File Edit Selection View Go Run Terminal Help

CADASTROS E TABELAS

JS CADASTROS E TABELAS

```

    169     > grafico.js > P options > P animation > P duration
    170     data: <
    171       datasets: <
    172         > [
    173           label: 'Google Remote Desktop',
    174             data: [10, 10, 6, 2, 4],
    175             pointRadius: 5,
    176             pointRadius: 5,
    177             pointRadius: 5,
    178             pointRadius: 5,
    179             pointRadius: 5,
    180             pointRadius: 5,
    181             pointRadius: 5,
    182             pointRadius: 5,
    183             pointRadius: 5,
    184             pointRadius: 5,
    185             pointRadius: 5,
    186             pointRadius: 5,
    187             pointRadius: 5,
    188             pointRadius: 5,
    189             pointRadius: 5,
    190             pointRadius: 5,
    191             pointRadius: 5,
    192             pointRadius: 5,
    193             pointRadius: 5,
    194             pointRadius: 5,
    195             pointRadius: 5,
    196             pointRadius: 5,
    197             pointRadius: 5,
    198             pointRadius: 5,
    199             pointRadius: 5,
    200             pointRadius: 5,
    201             pointRadius: 5,
    202             pointRadius: 5,
    203             pointRadius: 5,
    204             pointRadius: 5,
    205             pointRadius: 5,
    206             pointRadius: 5,
    207             pointRadius: 5,
    208             pointRadius: 5,
    209             pointRadius: 5,
    210             pointRadius: 5,
    211             pointRadius: 5,
    212             pointRadius: 5,
    213             responsive: true,
    214             minPointWidth: false,
    215             interaction: {
    216               mode: 'dataset',
    217               intersect: false,
    218             },
    219             animation: {
    220               duration: 500
    221             },
    222             plugins: {
    223               tooltip: {
    224                 enabled: true,
    225               }
    226             },
    227             elements: {
    228               line: {
    229                 borderWidth: 3
    230               }
    231             },
    232             scales: {
    233               r: {
    234                 min: 0,
    235                 max: 10
    236               }
    237             }
    238           }
    239         >
  
```

OUTLINE

Timeline

REFRESH

Gráficos Gerais

Microsoft Windows [versão 10.0.26100.6899]
(c) Microsoft Corporation. Todos os direitos reservados.

C:\Users\rafae>title Rafael Silva Machado
C:\Users\rafae>

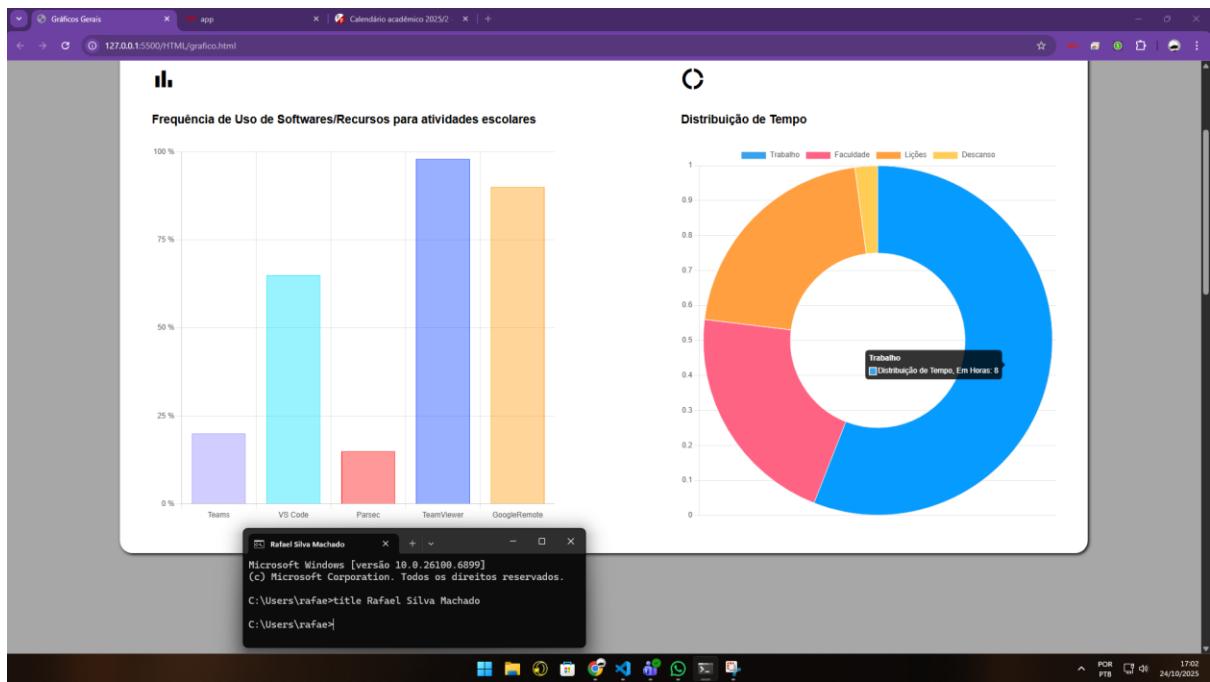
Gráficos Gerais

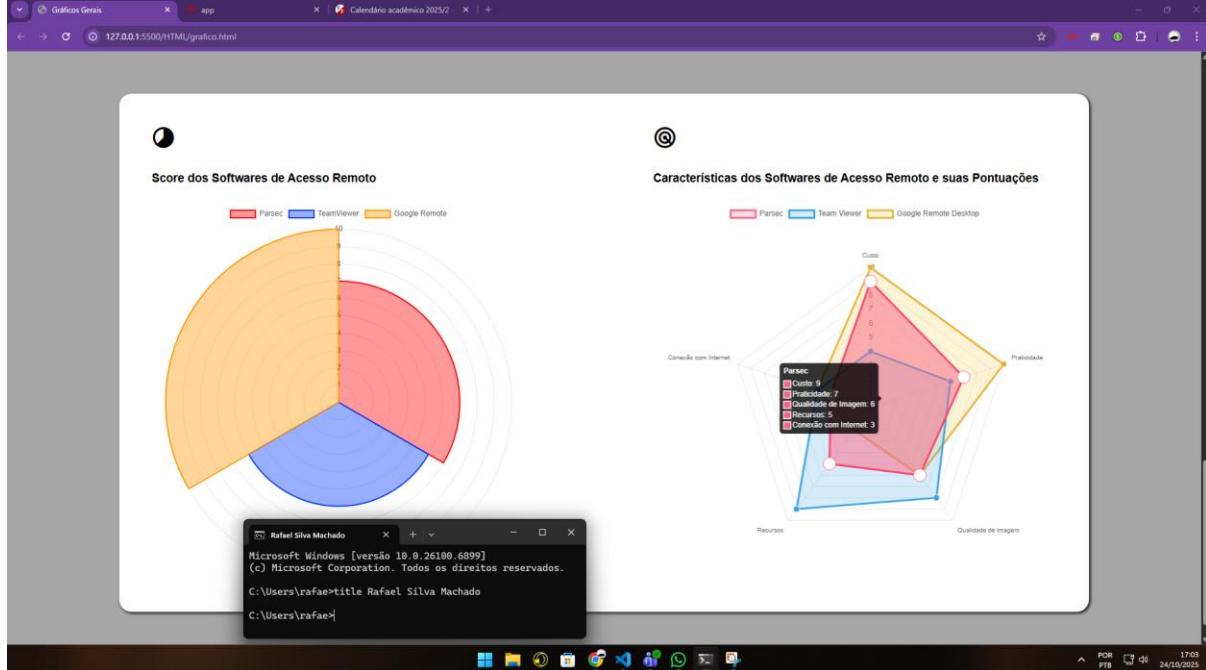
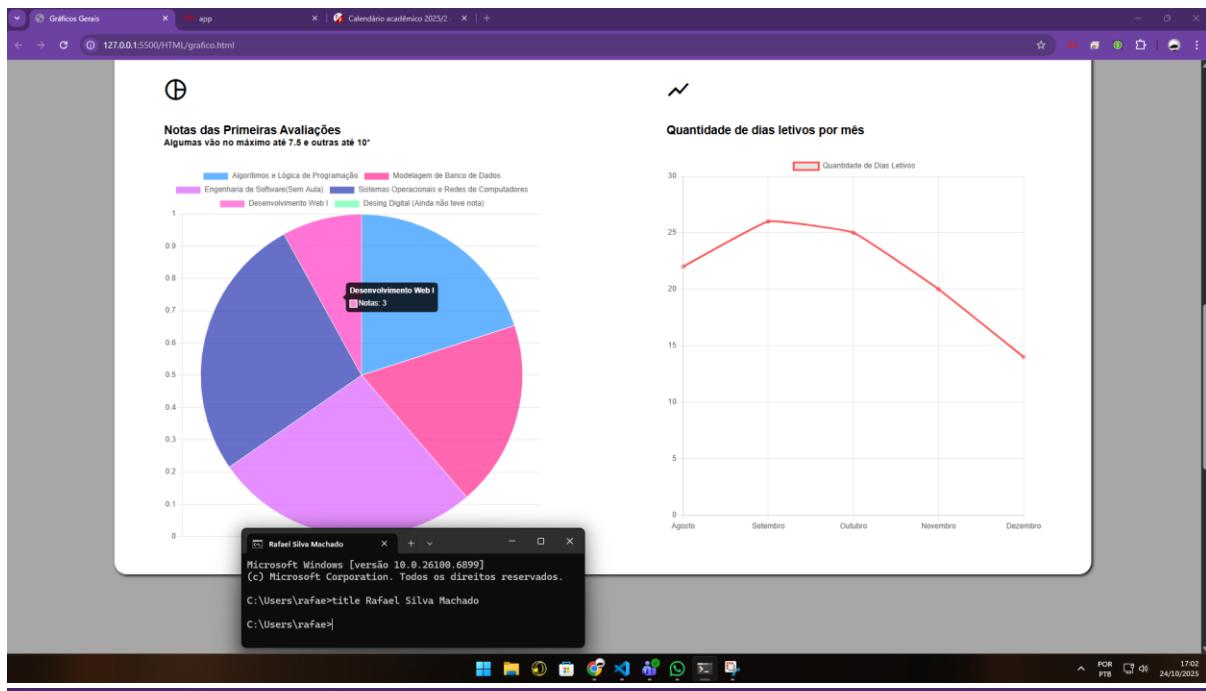
Frequência de Uso de Softwares/Recursos para atividades escolares

Software/Resource	Frequência (%)
TeamViewer	~65
Google Remote Desktop	~90

Distribuição de Tempo

Atividade	Porcentagem (%)
Trabalho	~55
Faculdade	~25
Lições	~15
Descanso	~5





Gráficos Gerais

Freqüência de Uso de Softwares/Recursos para atividades escolares

Software/Recursos	Freqüência (%)
Teams	~20%
VS Code	~70%
Parcer	~10%
TeamViewer	~95%
GoogleMeet	~90%

Distribuição de Tempo

Categoria	Horas
Trabalho	~0.7
Faculdade	~0.2
Lições	~0.1

Notas das Primeiras Avaliações

Algumas vão no máximo até 7.5 e outras até 10*

File Edit Selection View Go Run Terminal Help

EXPLORER CADASTROS E TABELAS

```

    > CADASTROS
        > CSS
            cadastro.css 169
            carousels.css 174
            estudante.css 195
            gráfico.css 197
            postas.css 198
            slide.css 200
            tabelas.css 201
        > HTML
            cadastro.html 202
            carousels.html 204
            estudante.html 206
            gráfico.html 208
            postas.html 209
            slide.html 210
            tabelas.html 211
        > JS
            carousels.js 213
            estudante.js 214
            gráfico.js 215
            tabelas.js 216
        > JSON
            218
        > PDFs
            Print 1 220
            Print 2 221
            Print 3 222
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        > Prints
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        > Zips
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            254
            255
            256
            257
            258
            259

```

JSDOC > gráfico.js > options > animation > duration

```

    data: {
        datasets: [
            {
                label: 'Algoritmos e Lógica de Programação',
                data: [7.5],
                backgroundColor: '#4CAF50',
                pointBackgroundColor: '#4CAF50',
                pointRadius: 10,
                pointHoverRadius: 15,
                pointHoverBackgroundColor: '#FF9800',
                pointHoverBorderColor: '#FF9800',
                pointHoverBorderWidth: 2,
                pointHoverRadius: 10
            },
            {
                label: 'Modelagem de Banco de Dados',
                data: [7.5],
                backgroundColor: '#E91E63',
                pointBackgroundColor: '#E91E63',
                pointRadius: 10,
                pointHoverRadius: 15,
                pointHoverBackgroundColor: '#FF9800',
                pointHoverBorderColor: '#FF9800',
                pointHoverBorderWidth: 2,
                pointHoverRadius: 10
            },
            {
                label: 'Engenharia de Software(Sem Aula)',
                data: [7.5],
                backgroundColor: '#FF9800',
                pointBackgroundColor: '#FF9800',
                pointRadius: 10,
                pointHoverRadius: 15,
                pointHoverBackgroundColor: '#FF9800',
                pointHoverBorderColor: '#FF9800',
                pointHoverBorderWidth: 2,
                pointHoverRadius: 10
            },
            {
                label: 'Sistemas Operacionais e Redes de Computadores',
                data: [7.5],
                backgroundColor: '#2196F3',
                pointBackgroundColor: '#2196F3',
                pointRadius: 10,
                pointHoverRadius: 15,
                pointHoverBackgroundColor: '#FF9800',
                pointHoverBorderColor: '#FF9800',
                pointHoverBorderWidth: 2,
                pointHoverRadius: 10
            }
        ],
        options: {
            responsive: true,
            maintainAspectRatio: false,
            interaction: {
                mode: 'dataset',
                intersect: false
            },
            animation: {
                duration: 500
            },
            plugins: {
                tooltip: {
                    enabled: true
                }
            },
            elements: {
                line: {
                    borderWidth: 3
                }
            },
            scales: {
                x: {
                    min: 0,
                    max: 10
                }
            }
        }
    }
}

```

Notas das Primeiras Avaliações
Algumas vão no máximo até 7.5 e outras até 10*

Subject	Grade	Count
Algoritmos e Lógica de Programação	7.5	1
Modelagem de Banco de Dados	7.5	1
Engenharia de Software(Sem Aula)	7.5	1
Sistemas Operacionais e Redes de Computadores	7.5	1

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C:\Users\rafae>title Rafael Silva Machado
C:\Users\rafae>

Editar no... | Novo | ...

Rafael Silva Machado

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Quantidade de dias letivos por mês

Mês	Quantidade de Dias Letivos
Ago	20
Setembro	25
Outubro	26
Novembro	25
Dezembro	15

Quantidade de Dias Letivos

Novembro Quantidade de Dias Letivos: 20

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C:\Users\rafae>

