# Gaming Console Features Heatmap

## HTML:

```html
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Gaming Console Heatmap</title>

    <script src="https://cdn.plot.ly/plotly-2.18.2.min.js"></script>

    <link rel="stylesheet" href="styles.css">

</head>

<body>

    <h1>Gaming Console Features Heatmap</h1>

    <p>A colorful and interactive representation of gaming console ratings.</p>

    <div id="heatmap"></div>

    <script src="script.js"></script>

</body>

</html>
```

## CSS:

```css
body {

    font-family: 'Arial', sans-serif;

    text-align: center;

    margin: 20px;

    background-color:white;
```

```
}

#heatmap {

    max-width: 1000px;

    margin: 20px auto;

    padding: 10px;

    background-color: white;

    border-radius: 10px;

    box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);

}

h1 {

    color: black;

    margin-bottom: 10px;

}

p {

    color: black;

    margin-bottom: 30px;

}
```

## JavaScript:

```
async function createHeatmap() {

    try {

        const response = await fetch('assessment.json');

        if (!response.ok) throw new Error('Failed to load JSON data.');

        const jsonData = await response.json();
```

```
const zValues = jsonData.data.map(console => console.data.map(feature => feature.value));

const yLabels = jsonData.data.map(console => console.name);

const xLabels = jsonData.data[0].data.map(feature => feature.label.replace('_', ' '));


const heatmapData = [{

  z: zValues,

  x: xLabels,

  y: yLabels,

  type: 'heatmap',

  colorscale: 'Blues',

  hoverinfo: 'x+y+z',

  showscale: true

}];


const layout = {

  title: 'Gaming Console Ratings Heatmap',

  xaxis: {

    title: 'Features',

    tickangle: -45

  },

  yaxis: {

    title: 'Consoles'

  },

  margin: { l: 100, r: 20, t: 50, b: 100 },

  width: 900
```

```
    };


    Plotly.newPlot('heatmap', heatmapData, layout);

  } catch (error) {

    console.error('Error:', error);

  }

}


createHeatmap();
```
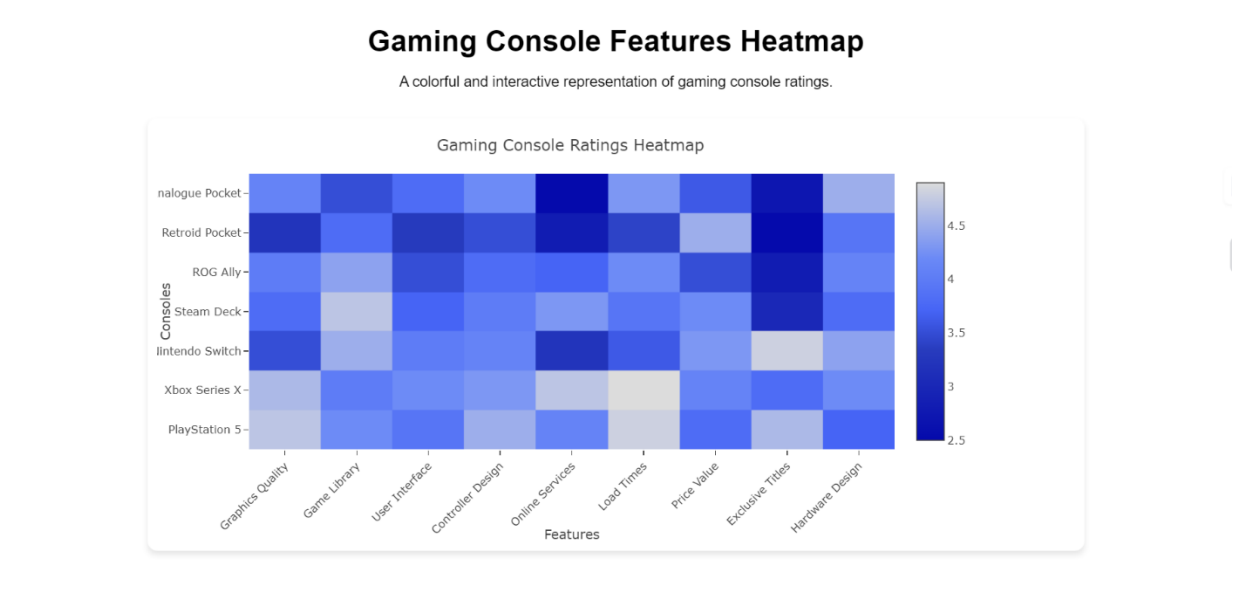
**OUTPUT_SCREENSHOT**:



**Gaming Console Features Heatmap**

A colorful and interactive representation of gaming console ratings.

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