

# main.js

```
document.addEventListener('DOMContentLoaded', function() {
    // === Timeline Chart ===
    // Bar chart: CVEs discovered per month,
    // for the last 5 years (data is embedded as a JSON string in the
    // element's attribute)
    const tctx = document.getElementById('timelineChart');
    if (tctx) {
        // Parse the 'data-timeline' attribute
        // (should be an object: {month: count, ...})
        const timelineData = JSON.parse(tctx.getAttribute('data-timeline') ||
'{}');
        const labels = Object.keys(timelineData); // x-axis: months (e.g.
'2021-10')
        const data = Object.values(timelineData); // y-axis: CVE count for
each month
        new Chart(tctx, {
            type: 'bar',
            data: {
                labels: labels,
                datasets: [{
                    label: 'CVEs by Month (Last 5 Years)',
                    data: data,
                    backgroundColor: 'rgba(54, 162, 235, 0.5)', // soft blue
bars
                    borderColor: 'rgba(54, 162, 235, 1)', // sharper blue
borders
                    borderWidth: 1
                }]
            },
            options: {
                scales: { y: { beginAtZero: true } }, // y-axis always starts
at zero
                plugins: { legend: { display: false } } // hide the legend
(single series)
            }
        });
    }

    // === CWE Chart ===
    // Horizontal bar chart of CWE type frequencies
    // (data is also embedded as JSON in attribute)
```

```

const cweCtx = document.getElementById('cweChart');
if (cweCtx) {
    // Parse the 'data-cwe' attribute
    // (should be { CWE-79: count, CWE-89: count, ... })
    const cweData = JSON.parse(cweCtx.getAttribute('data-cwe') || '{}');
    const cweLabels = Object.keys(cweData); // y-axis: CWE code/title
    const cweCounts = Object.values(cweData); // x-axis: count for each
CWE

    new Chart(cweCtx, {
        type: 'bar',
        data: {
            labels: cweLabels,
            datasets: [{
                label: 'CWE Count',
                data: cweCounts,
                backgroundColor: 'rgba(255, 99, 132, 0.5)', // soft red
bars

                borderColor: 'rgba(255, 99, 132, 1)', // red borders
                borderWidth: 1
            }]
        },
        options: {
            indexAxis: 'y', // horizontal bars
            scales: { x: { beginAtZero: true } }, // x-axis starts at zero
            plugins: { legend: { display: false } } // hide legend
(single series)
        }
    });
}
});

```