**Bootstrap: A Responsive Web Design Framework**

**Bootstrap** is a popular front-end framework that provides a collection of pre-built HTML, CSS, and JavaScript components for building responsive web applications. It offers a wide range of reusable components, such as buttons, forms, navigation bars, and grid systems, that help developers create visually appealing and mobile-friendly websites.

**How Bootstrap Helps with Responsive Design:**

* **Grid System:** Bootstrap's grid system allows you to easily create responsive layouts that adjust to different screen sizes. It uses a 12-column grid system that can be customized to fit your needs.
* **Pre-built Components:** Bootstrap provides a variety of pre-styled components, such as buttons, forms, and navigation bars, that are designed to be responsive and visually appealing.
* **Utility Classes:** Bootstrap includes utility classes that can be used to style individual elements, such as changing text color, font size, or margins.

**Creating a Simple Web Layout:**

HTML

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Bootstrap Example</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/boo