Leaflet.js: A Beginner's Guide

# What is Leaflet.js?

Leaflet.js is a modern, open-source JavaScript library used to build interactive maps that work efficiently across all major desktop and mobile platforms.

It is lightweight, simple, and packed with powerful features.

# Key Features

* Lightweight and fast
* Mobile-friendly and responsive
* Supports plugins for advanced features
* Easy-to-use API
* Supports GeoJSON and custom markers

# How to Use Leaflet.js

1. Include Leaflet CSS and JS in your HTML:

<link rel="stylesheet" href="https://unpkg.com/leaflet/dist/leaflet.css" />  
<script src="https://unpkg.com/leaflet/dist/leaflet.js"></script>

2. Create a map container in HTML:

<div id="map" style="height: 400px;"></div>

3. Initialize the map in JavaScript:

var map = L.map('map').setView([51.505, -0.09], 13);  
L.tileLayer('https://{s}.tile.openstreetmap.org/{z}/{x}/{y}.png', {  
 attribution: '© OpenStreetMap contributors'  
}).addTo(map);

# Leaflet Routing

To create routes on the map (like tracing from live location to destination), you can use the 'leaflet-routing-machine' plugin. This allows you to add routing control that calculates and displays paths.

# Use Cases

* Real-time delivery tracking
* Tourism maps
* Weather mapping
* Indoor navigation for events
* Educational geography tools

# Resources

Official Website: <https://leafletjs.com/>

Routing Plugin: <https://www.liedman.net/leaflet-routing-machine/>

GitHub Repo: <https://github.com/Leaflet/Leaflet>