

# Espresso World Map - Full Prompt + React Code

## Espresso World Map - Full Spec (with Clustering + Legend)

### Task:

Build an interactive, web-embeddable world map called Espresso World Map.

It highlights where Espresso has hosted past events and where future ones will take place.

The map includes a toggle between Past Events and Upcoming Events.

### Design & Branding:

- Use Espresso logo (espress.jpg) for color palette.
- Dark Espresso shade -> Past Events
- Light Espresso shade -> Upcoming Events
- Style: minimalist, clean, modern.
- Rounded elements, soft shadows.
- Aesthetic: warm, energetic, global.

### Map Functionality:

- Interactive vector world map (Leaflet/Mapbox).
- Toggle control for Past <-> Upcoming.
- Past Events: dark fill country + filled pin.
- Upcoming Events: light fill country + outlined pin.
- Hover/Click: show city, country, date, time, venue, link.
- Clustered pins: events grouped by zoom level.
- Custom cluster icons (dark for past, light for upcoming).
- Legend: bottom-right corner showing Past vs Upcoming colors.

### Technical Specs:

- Deliverable: React/Next.js MVP OR Figma prototype.
- JSON-driven (easy to extend).
- Mobile responsive.
- Smooth transitions when toggling.

### Judging Criteria:

- Interactivity: smooth toggle and clustering.
- Brand alignment: Espresso palette.
- Clarity: whole country highlight + pin.
- Aesthetic: modern, clean, subtle animations.

### Event Data (JSON):

```
{  
  "pastEvents": [  

```

```

    { "event": "Denver Meetup", "city": "Denver", "country": "USA", "coords": [39.7392, -104.9903], "date":
"2023-06-20", "status": "Past", "link": "https://x.com/EsspressoSys" },
    { "event": "SF Summit", "city": "San Francisco", "country": "USA", "coords": [37.7749, -122.4194], "date":
"2023-09-12", "status": "Past", "link": "https://x.com/EsspressoSys" },
    { "event": "NY Conference", "city": "New York", "country": "USA", "coords": [40.7128, -74.0060], "date":
"2024-02-15", "status": "Past", "link": "https://x.com/EsspressoSys" },
    { "event": "Cannes Forum", "city": "Cannes", "country": "France", "coords": [43.5528, 7.0174], "date":
"2023-05-10", "status": "Past", "link": "https://x.com/EsspressoSys" },
    { "event": "Bangkok Talk", "city": "Bangkok", "country": "Thailand", "coords": [13.7563, 100.5018], "date":
"2024-04-18", "status": "Past", "link": "https://x.com/EsspressoSys" },
    { "event": "Brussels Meetup", "city": "Brussels", "country": "Belgium", "coords": [50.8503, 4.3517], "date":
"2024-03-02", "status": "Past", "link": "https://x.com/EsspressoSys" },
    { "event": "Berlin Workshop", "city": "Berlin", "country": "Germany", "coords": [52.5200, 13.4050], "date":
"2024-07-23", "status": "Past", "link": "https://x.com/EsspressoSys" }
],
"upcomingEvents": [
    { "event": "Seoul Gathering", "city": "Seoul", "country": "Korea", "coords": [37.5665, 126.9780], "date":
"2025-11-10", "status": "Upcoming", "link": "https://x.com/EsspressoSys" },
    { "event": "Buenos Aires Con", "city": "Buenos Aires", "country": "Argentina", "coords": [-34.6037, -58.3816],
"date": "2025-12-05", "status": "Upcoming", "link": "https://x.com/EsspressoSys" }
]
}

```

## React Component (EspressoWorldMapToggle.jsx):

```

import React, { useEffect, useMemo, useState } from "react";
import { MapContainer, TileLayer, CircleMarker, Popup, Rectangle, useMap } from "react-leaflet";
import MarkerClusterGroup from "react-leaflet-cluster";
import L from "leaflet";
import "leaflet/dist/leaflet.css";
import eventsData from "../data/espresso-events.json";

const DARK_ESPRESSO = "#b36d3c";
const LIGHT_ESPRESSO = "#f2b98f";
const MARKER_RADIUS = 9;

function FitBoundsToEvents({ bounds }) {
    const map = useMap();
    useEffect(() => { if (bounds?.length) map.fitBounds(bounds, { padding:[40,40], maxZoom:5 }); }, [bounds,
map]);
    return null;
}

function createClusterCustomIcon(cluster, mode) {
    const count = cluster.getChildCount();
    const color = mode === "past" ? DARK_ESPRESSO : LIGHT_ESPRESSO;
    return L.divIcon({

```

html:

`<div

```

style="background:${color};color:#fff;border-radius:50%;width:40px;height:40px;display:flex;align-items:center;
justify-content:center;font-weight:bold;">${count}</div>`,
  className: "custom-cluster", iconSize:[40,40]
});
}

export default function EspressoWorldMapToggle() {
  const [mode,setMode]=useState("past");
  const events = mode==="past"?eventsData.pastEvents:eventsData.upcomingEvents;
  const bounds = useMemo(()=>[...(eventsData.pastEvents),...(eventsData.upcomingEvents)].map(e=>e.coords),[]);
  return (
    <div style={{maxWidth:1100,margin:"18px auto"}}>
      <MapContainer center={[20,0]} zoom={2} style={{height:560,width:"100%"}}>
        <TileLayer url="https://{s}.tile.openstreetmap.org/{z}/{x}/{y}.png"/>
        <FitBoundsToEvents bounds={bounds}/>
        <MarkerClusterGroup iconCreateFunction={(cl)=>createClusterCustomIcon(cl,mode)}>
          {events.map((ev,idx)=>(
            <CircleMarker key={idx} center={ev.coords} radius={MARKER_RADIUS}

pathOptions={mode==="past"?{fillColor:DARK_ESPRESSO,color:"white",fillOpacity:1}:{fillColor:"white",color:DARK_
ESPRESSO,fillOpacity:1}}>
            <Popup><div><b>{ev.event}</b><br/>{ev.city}, {ev.country}<br/>Date: {ev.date}<br/>Status:
{ev.status}<br/><a href={ev.link} target="_blank">View Event</a></div></Popup>
            </CircleMarker>
          ))}
        </MarkerClusterGroup>
      </MapContainer>
    </div>
  );
}

```