⚡ DashConnect — API Dashboard

I built **DashConnect** to showcase everything I learned in the JavaScript unit: DOM manipulation, `fetch`, async/await, and working with multiple public APIs on one cohesive page. Each card is a tiny app, and the whole UI is vanilla HTML/CSS/JS—no frameworks or chart libs.

🎯 What it does

- 🐶 **Random Dog** (Dog CEO API)
- 🐱 **Random Cat** (TheCatAPI)
- ☁ **Weather by ZIP** (Zippopotam.us → Open-Meteo current weather)
- 💱 **Currency converter** (exchangerate.host with a Frankfurter fallback)
- 👤 **GitHub user lookup** (GitHub REST API)
- 😂 **Safe jokes** (JokeAPI)
- 🎬 **Movies** (TMDB trending with API key, plus Studio Ghibli fallback)
- 🎨 **Color palettes** (Colormind; apply/revert palette to the site theme)

I also auto-detect the user's **ZIP from IP** (US only) with `ipapi.co`, and fall back to a default ZIP if that fails.

🚀 Quick start

1. Download or clone the project.

2. Open `index.html` in any modern browser.

   - Colormind is **HTTP**; some browsers block it on secure contexts. If that happens, the app falls back to a safe local palette.

3. Trending movies use my TMDB key (in code). You can also click **Ghibli** (no key).

📂 Files

- `index.html` — dashboard structure
- `styles.css` — responsive styles (Subframe-inspired; credit below)
- `app.js` — all fetch logic, DOM updates, palette apply/revert, and helpers

💡 Highlights I'm proud of

- **Clean async flows** with graceful errors in every card.
- **ZIP enforcement**: only 5 digits allowed as you type.
- **IP bootstrap**: try `ipapi.co` for ZIP; fall back to a default.
- **Two-provider currency**: exchangerate.host, then Frankfurter.
- **Palette → Theme**: map 5 generated colors into CSS gradient variables; **Apply** and **Revert** work instantly.

- **Clipboard UX**: click a swatch to copy its hex (📋 → ☑ feedback).

🔌 How each mini-app works (API references)

🐶 Dog

- Endpoint: `https://dog.ceo/api/breeds/image/random`
- Docs: https://dog.ceo/dog-api/

🐱 Cat

- Endpoint: `https://api.thecatapi.com/v1/images/search?size=small`
- Docs: https://docs.thecatapi.com/

🌥 Weather (ZIP → current)

1. ZIP → lat/lon with Zippopotam.us

   - `https://api.zippopotam.us/us/{zip}`

2. Current weather with Open-Meteo

   - `https://api.open-meteo.com/v1/forecast?...`

Docs linked above.

💱 Currency

- **Primary:** exchangerate.host
- **Fallback:** Frankfurter

🧑‍💻 GitHub user

- `https://api.github.com/users/{username}`

😂 Joke (safe mode)

- `https://v2.jokeapi.dev/joke/Any?safe-mode`

🎬 Movies

- **TMDB Trending:** requires API key
- **Studio Ghibli (fallback):** free, no key

🌍 IP → ZIP

- `https://ipapi.co/json/` (primary)
- `https://ipinfo.io/json` (backup)

🎨 Colormind palette

- `http://colormind.io/api/` (HTTP only, fallback handled)

📑 Algorithms & helper references

- **RGB → HSL conversion** — Wikipedia • W3C
- **Clipboard API** — MDN Docs
- **Fetch / async** — MDN Docs
- **Responsive media (`object-fit`, `aspect-ratio`)** — MDN Docs
- **`toLocaleString` formatting** — MDN Docs

♿ Accessibility & UX notes

- Visible labels + emoji only (no icon libs).
- Copy-to-clipboard shows success feedback.
- Explicit units (°C, m/s, USD/EUR).
- Input guards (ZIP restricted to 5 digits).

⚠ Known limitations

- **Colormind** is HTTP-only (blocked on HTTPS).
- **TMDB** requires a personal key.
- Some APIs throttle anonymous usage; I show graceful errors.

👏 Credits

- **Style inspiration:** Subframe — "CSS Dashboard Examples"
- **Google Font (Poppins)** — Google Fonts
- **APIs used:** Dog CEO • TheCatAPI • Zippopotam.us • Open-Meteo • exchangerate.host • Frankfurter • GitHub • JokeAPI • TMDB • Studio Ghibli • ipapi • ipinfo • Colormind

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💬 *"Building cool stuff, one commit at a time."*

📄 License

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Design inspired by Subframe's examples; CSS handcrafted.