

Weather! Description

Weather! is a simple site that displays the current weather in your area, based off of your IP address. It uses HTML, CSS, JavaScript, and the free version of the Weatherbit.io API. The site has two display functionalities--the panel in the lower left has:

- Short weather description
- Current temperature in Fahrenheit and Celsius
- City closest to your IP that has weather data
- State you are in
- Relative humidity
- Image of current weather

The rest of the screen is a 'simulation' of the weather patterns described in the panel. Over rolling green hills, clouds, sky, and sun are simulated. More details:

- The API provides a weather 'code' that matches the weather description. Using this code, the weather image (in panel), the clouds, and the sun all have their images changed.
- The API provides a cloud count. This (plus one, so there is always at least one cloud) is the number of clouds displayed onscreen. Note that there is a random 0 to 20 second delay on the cloud animation, so it may take some time before any show up.
- The API provides wind speed. The higher the wind speed, the faster the clouds move.
- The API provides sunrise and sunset times in UTC. If the current time in UTC is before or after these, the sun is not displayed and the sky is changed to night.

If you wish to test functionality, either enable or disable the following lines in the script.js file. Weather codes can be found at the bottom of the page [here](#).

- To change number of clouds:
 - `//cloudNum = 10;`
- To change current weather:
 - `//weather = 804;`
- To change cloud speed:
 - `//speed = 100;`
- To enable/disable sun at night:
 - `document.getElementById("sun").style.display = "none";`

All graphics (hills, all versions of the sun, all versions of clouds) were made and animated by me in Adobe Illustrator and Photoshop. All data used is displayed on the console, for testing purposes.