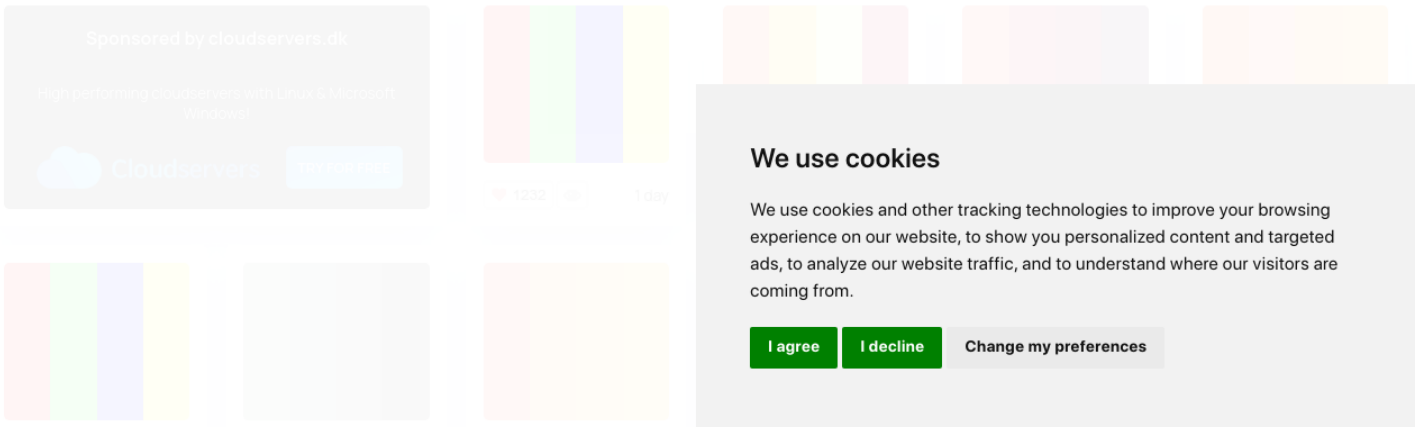

Carbon Footprint Assessment: colordrop.io

This report provides a detailed analysis of the carbon footprint generated by visits to the website 'colordrop.io', which is hosted by Cloudflare, Inc. on a server that runs on sustainable energy. We have evaluated its environmental efficiency and performance compared to other websites.

Key Findings:

- **Page Size:** The total size of the page is 226.37 KB, ranking it better in terms of environmental efficiency than 92% of websites we've scanned.
- **Energy Consumption:** Each view consumes approximately 0.00010447256322205 kWh of energy.
- **Carbon Emissions:** Every visit produces an estimated 0.04g of CO2 or 0.025L in terms of volume.
- **Traffic Estimate:** Our analysis indicates that colordrop.io receives approximately 403,000 visits every month or around 4.84 million visits annually.
- **Pollution Offset Needed:** To balance out the CO2 production from these visits, it would take

about 9 trees planted each year.

Evaluation Scores:

- The website received a size score of 0.92, indicating that its file size is smaller than most sites and therefore results in less energy consumption for data transfer.
- The performance score was recorded as a high 0.98, which means the website is well-optimized for quick loading times and efficient operation.
- Given these scores, the overall grade for colordrop.io is an 'A+'. This indicates it has excellent performance and environmental efficiency compared to other websites.

Website Optimization Best Practices:

Optimizing a website not only improves its speed and user experience but also reduces its carbon footprint. Some best practices include minimalistic design, compressing images, using clean code, leveraging browser caching, reducing redirects, removing unnecessary plugins and scripts, and choosing green hosting providers that use renewable energy sources.

Suggestions for Improvement:

Although colordrop.io already performs impressively well in terms of environmental efficiency and performance score, there's always room for improvement. Regularly checking the site's weight and load time will ensure it maintains or even improves its current standards. Furthermore, optimizing media files by using modern formats or compression can further reduce page size without sacrificing quality.