



Fluxguard provides cloud-based web change intelligence.

We detect and report defects. From defacement, to bad deployments, inadvertent edits, and site outages.

[See a self-guided demo of changes to CDC coronavirus content.](#)

We provide non-stop crawling and monitoring of any site, including interactive Javascript-dependent pages and other complex content.

Fluxguard offers multiple levels of change detection:

- Screenshots every page and detects pixel changes
- Compares "rendered" HTML
- Extracts text and looks for changes to content
- Provides complete network change analysis
- Enriches results with machine learning

Fluxguard sends email / webhook change alerts. As an alternative, the changes can be summarized in a daily / weekly report.

In addition, our extensive configuration options — including filters to remove areas of a page, proxy networks, etc. — provide customers with unparalleled change detection and transparency.

We're based in Portland, Oregon. And for 10+ years, we've provided serious web change intelligence.

# Fluxguard Detects Website Changes

We offer multi-step, multi-page website change monitoring in the cloud. Identify defects, defacement, or other critical website changes, even on intricate web apps or password-protected pages.

## **Automate Business-Critical Website Change Audits**

Screen irrelevant changes with our powerful Filters and Network Blocks. Set up simple rules to notify business users and IT staff of web page changes that require investigation. Or delegate the analysis to one of our Solution Architects who will pre-screen results, optimize monitoring, and develop a web change report just for you.

## **Alert Key Users to Changes in an Instant**

Receive detailed information without delay... or every day, week, etc. All detected website changes will be included in a simple report for remediation, analysis, or investigation.

## **Multiple Website Change Visualizations**

Our email reports provide screenshot change highlights as well as extracted text modifications. You can also view side-by-side rendered HTML comparisons, screenshot overlay sliders, HAR/network activity differences, and even a live interactive before-and-after rendering of each version.

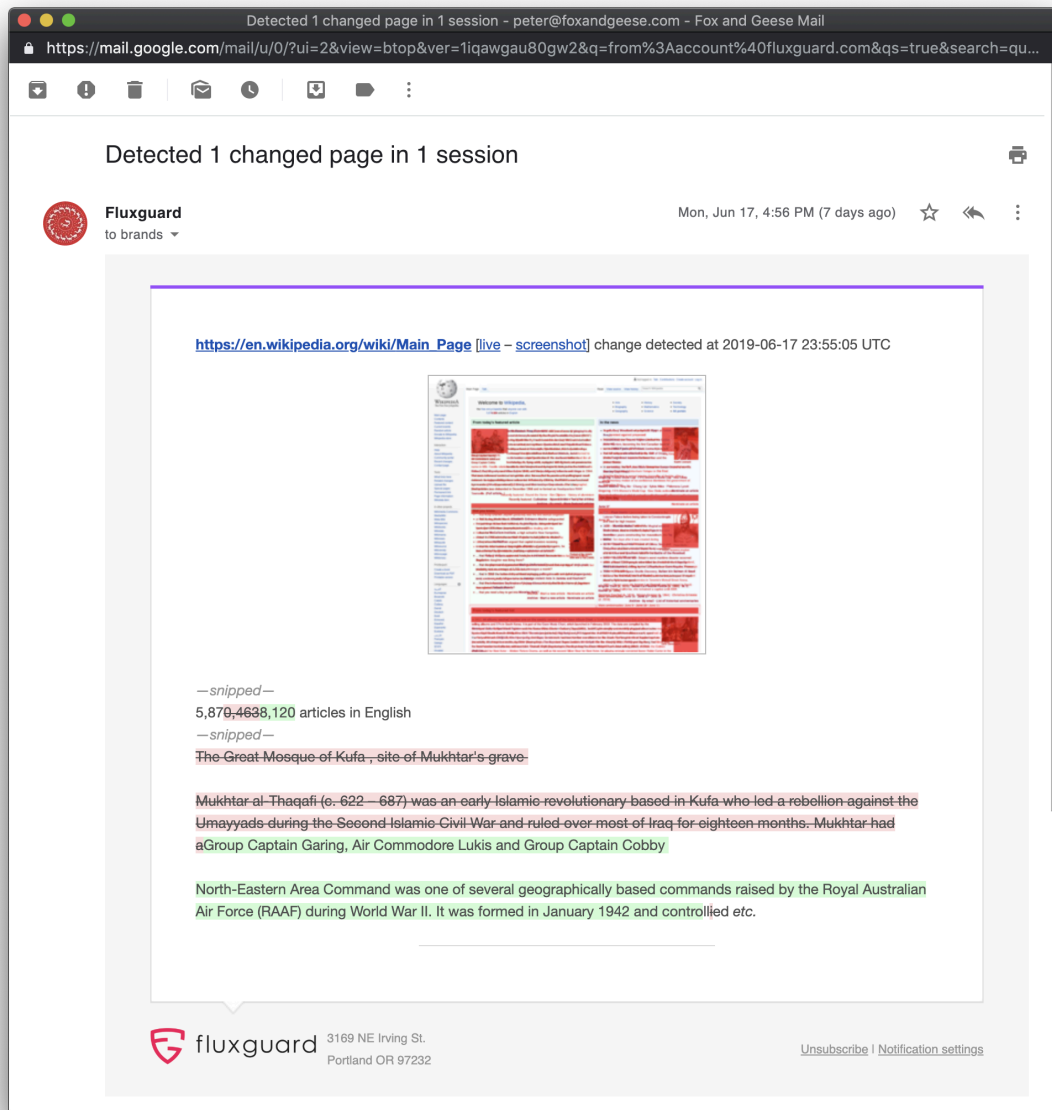
## **Changes Are Archived in Perpetuity**

Create durable, comprehensive, point-in-time archives of entire websites and their alterations, providing complete transparency for regulatory compliance, consumer consent monitoring, and other change monitoring needs.

## **Key Product Screen: Instant Email Reports**

Change reports are dispatched via email, SMS, webhook, API, and beyond.

Receive updates right away, or summarized into a single report on an hourly / daily / weekly or monthly basis. Screenshots of alterations, as well as color-coded text changes are inlined into the email for easy consumption and internal sharing.



# Key Product Screen: Code Changes

We detail before-and-after HTML changes to any web page.

Also, since we utilize a full headless Chrome browser for crawling, all Javascript, CSS, and images are loaded and executed.

Toggle between different ways of viewing modifications: from comparing screenshots, examining underlying HTML code, extracted text, and even network change analysis.

The screenshot displays the Fluxguard Comparison viewer interface. At the top, the browser address bar shows the URL: `https://fluxguard.com/htmlview?actionid=33fcc736-374a-4bf6-9c4e-0ea888172c75&captureid=155977067718...`. The page title is "The Board - SATS" and the URL is `https://www.sats.com.sg/AboutUs/Leadership`. The comparison is dated "Sep 17, 2018, 3:55 PM compared to Jun 5, 2:38 PM".

The interface has five tabs: "RENDERED DIFF (BETA)", "CODE DIFF", "TEXT DIFF", "IMAGE DIFF", and "NETWORK DIFF (BETA)". The "CODE DIFF" tab is selected. Below the tabs, there are two dropdown menus: "View option" set to "Complete page" and "View mode" set to "View side-by-side".

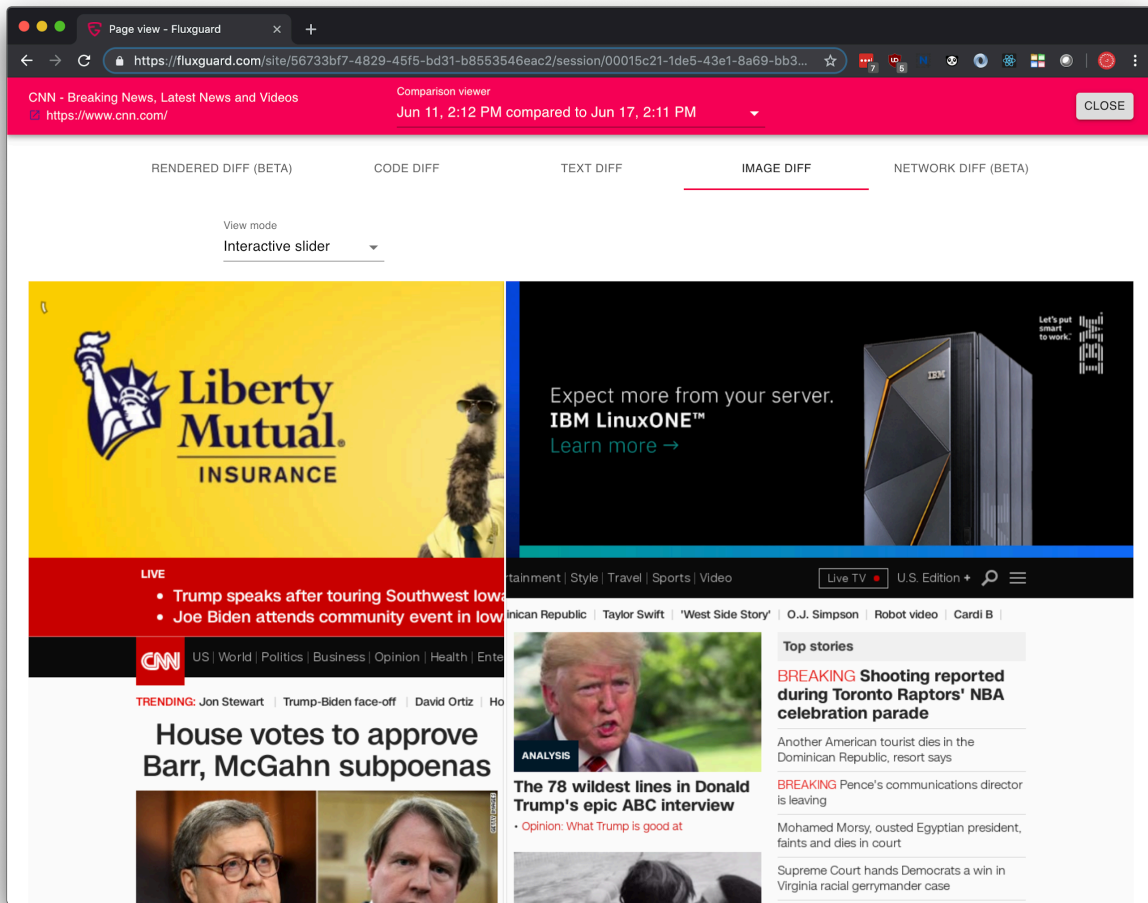
The main area shows a side-by-side comparison of HTML code. The left column represents the original code, and the right column represents the modified code. Line numbers are visible on the left of each column. The modified code includes several new attributes and classes, such as `id="s4-ribbonrow"`, `class="s4-pr s4-ribbonrowhidetitle"`, and `style="height: 44px;".` The code also includes various JavaScript functions and event handlers.

# Key Product Screen: Screenshot Changes

We detect pixel variations by comparing before-and-after screenshots.

Changes for any web page are audited in multiple ways. Our image comparison scours for defacement and imperfections in the rendered page. Sometimes, these can occur in the underlying image file itself, even if the page's HTML is the same.

We intercept these alterations, too.

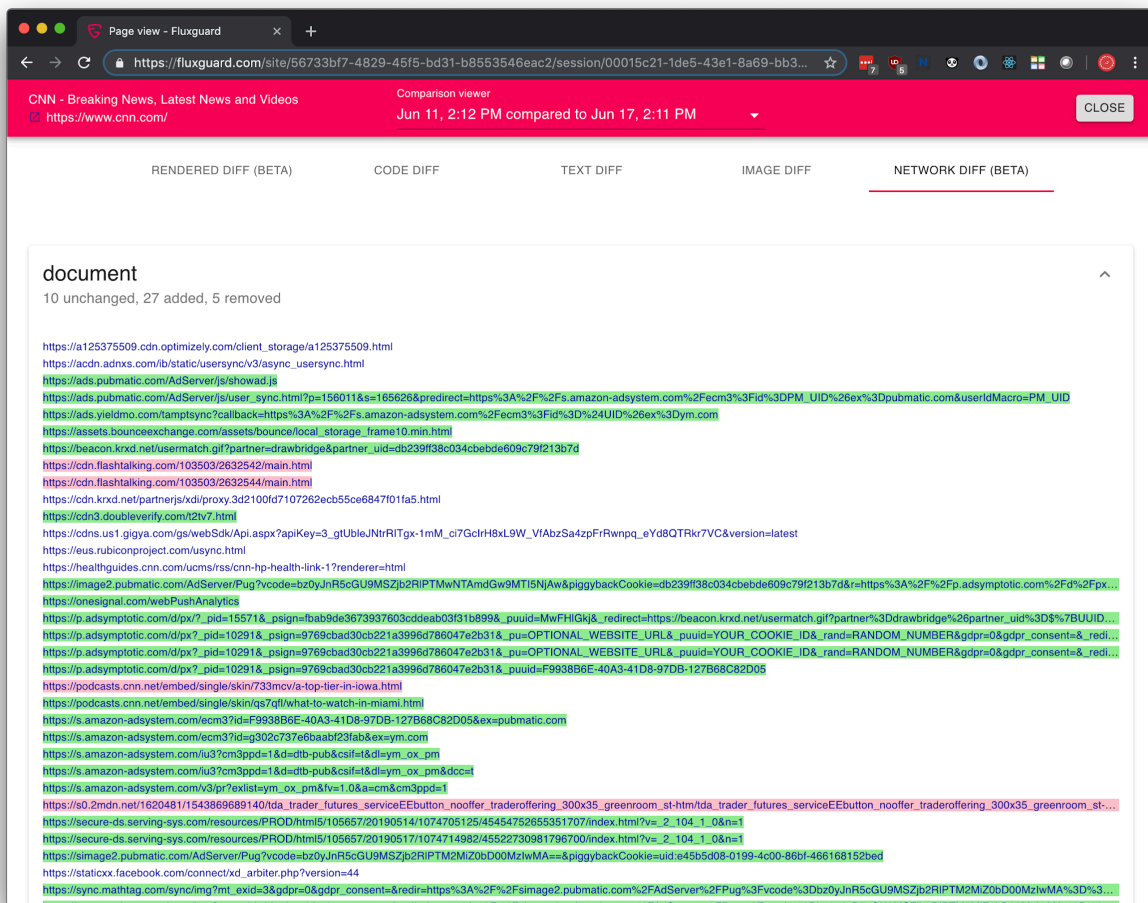


# Key Product Screen: Network Changes

When Fluxguard crawls a page, we assemble and log all network activity, including images loaded, Javascript, XHR requests, fonts, and more.

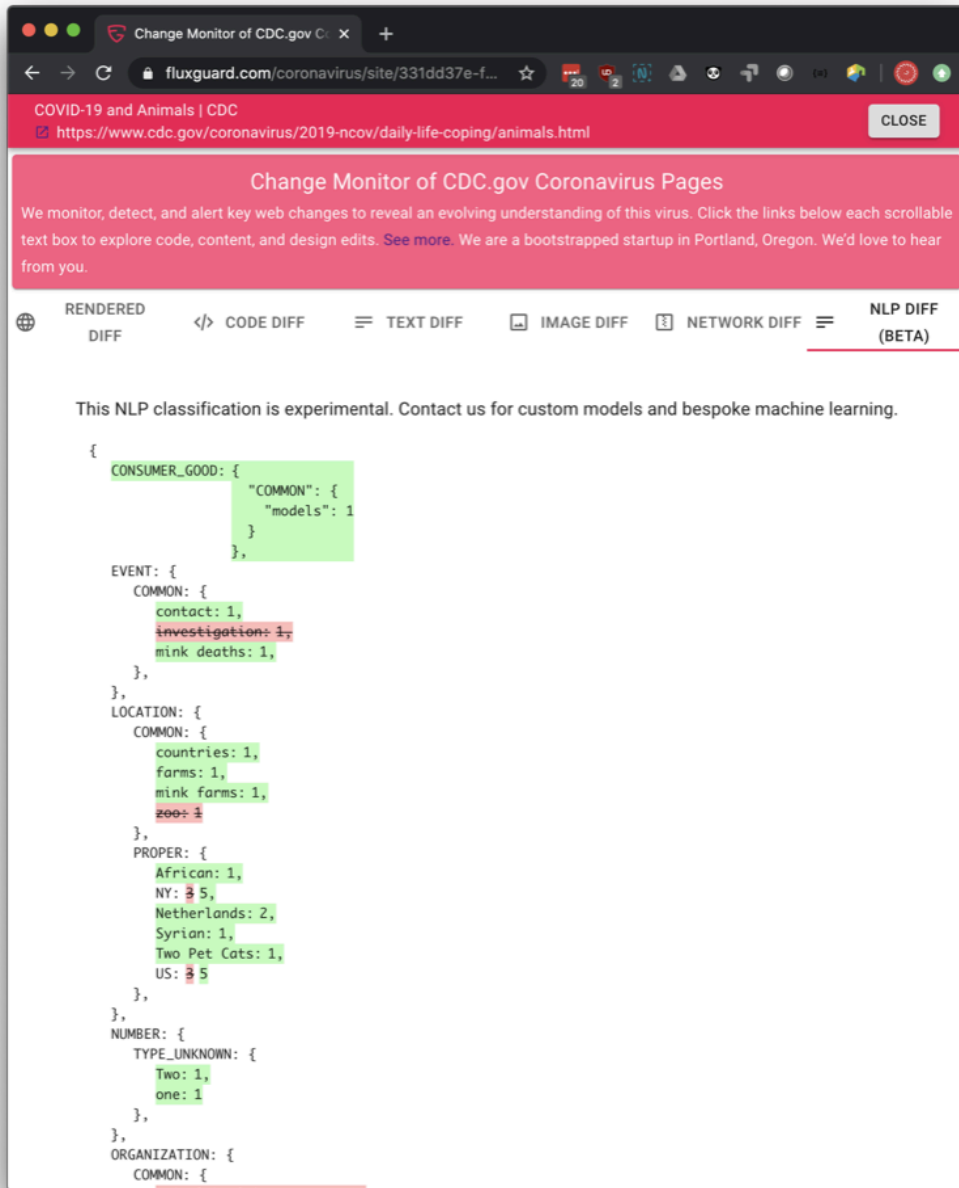
When the page is crawled again, all changes to the underlying network resources are reported. Whitelisting certain domains is possible, too.

This way, you can identify data skimming and exfiltration from DNS spoofing, cross-site scripting, NPM poisoning, and other nefarious techniques, from Magecart and other hacking groups, to insert malicious Javascript to pilfer sensitive customer information.



# Key Product Screen: Machine Learning

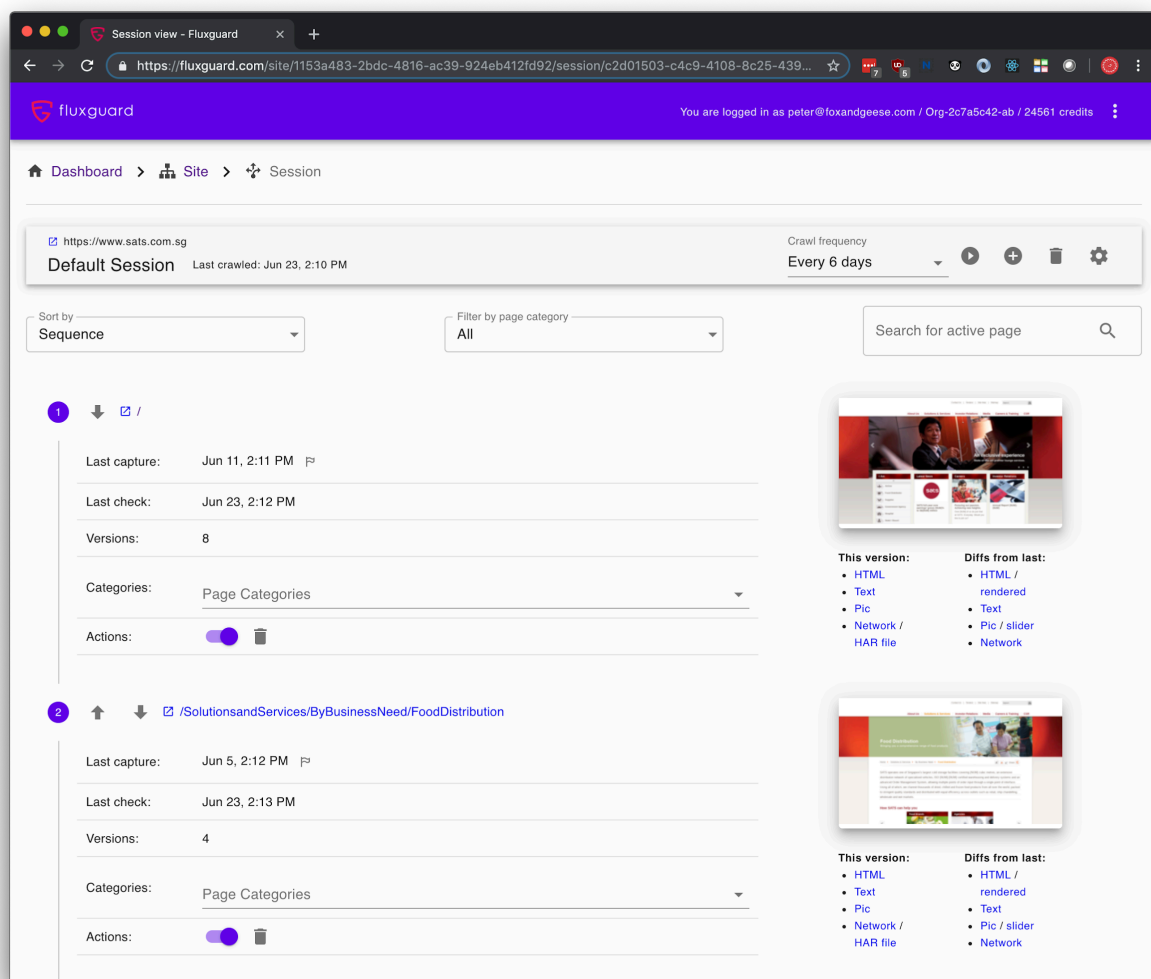
Fluxguard utilizes Natural Language Processing (NLP) to automate comprehension of monitored pages. This detects entities such as addresses, people, prices, products, organizations, which simplifies monitoring and enriches data for insight visualizations.



# Key Product Screen: Session Orchestration

Fluxguard allows customers to orchestrate and monitor complex web interactions such as crawling every page on a site, registering an account, ordering a product, and so on.

Fluxguard supports session-based cookies, web storage, form submissions, clicks, and other behaviors across an entire session. This allows our customers to replicate key user "journeys" through a site, and look for code, content, design, and network changes across every page.



# Key Product Screen: Page Captures

When a new version of a page is documented, we do far more than just save the HTML and screenshot. We capture everything; all network activity, all console logs, all cookies, and web storage.

The screenshot displays the Fluxguard interface for a page capture. At the top, it shows the browser address bar with the URL: `https://fluxguard.com/site/f2ab67ce-fd84-4343-b418-bfa9b4413eca/session/f2b1d9f4-c761-4e37-9674-ff94b...`. Below the browser view, the interface shows the following information:

- Last capture: Jun 23, 2:12 PM
- Last check: Jun 23, 2:12 PM
- Versions: 5

The interface is divided into two main sections: **1 OPEN** and **2 CAPTURE** (with a gear icon). The **CAPTURE** section shows the capture details for the page on Jun 23, 2:12 PM.

**Captured: Jun 23, 2:12 PM**

- lighthouseSummary:** 5 keys
  - title: "Skin Care Products and Tips | Olay"
  - pageHeight: "5037 px"
  - comparisonType: "text"
- headers:** 2 keys
  - hasNetDiff: true
- userAgent:** "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/71.0.3578.98 Safari/537.36"
- version:** "HeadlessChrome/76.0.3786.0"
- url:** "https://www.oly.com/en-us"
- robotsDisallowed:** false
- viewport:** 2 keys
  - width: 1366
  - height: 768
- htmlDiffMetrics:** 3 keys
  - charactersAdded: 9934
  - breakdown: 1 key
  - charactersDeleted: 12231
- metrics:** 13 keys
  - originsOnly: false
- console:** 16 items
- cookies:** 34 items
- localStorage:** 1 key
- network:** 2 keys
  - allRequests: 121 items
  - failedRequests: 1 item
- lighthouse:** 5 keys
  - performance: 3 keys
  - accessibility: 5 keys
  - best-practices: 3 keys
  - seo: 5 keys
  - pwa: 5 keys
  - status: 200

**Diff from last:**

- HTML / rendered
- Text
- Pic / slider
- Network

**Lighthouse summary: -- full report**

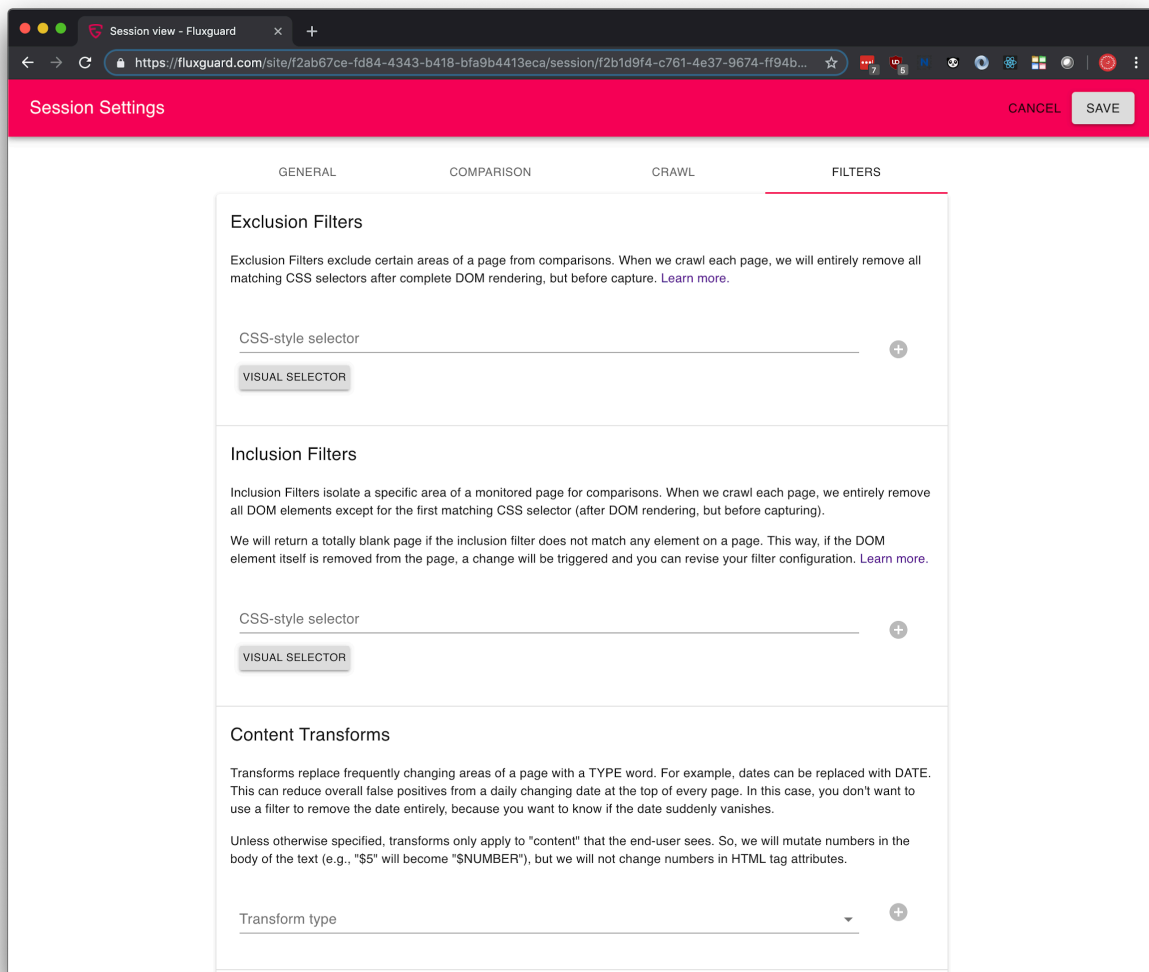
Performance: 15, Accessibility: 76, Overall: 55, SEO: 100, Best Practices: 86

The screenshot also includes a thumbnail of the product page being captured, which features a promotional banner for "BUY ANY RED JAR and choose one" with a "25% OFF" discount. The banner includes images of Olay Red Jar products and a woman's face.

# Key Product Screen: Configuration Options Galore

Today's modern web can be difficult to monitor. That is why we provide assorted configuration and organization options to improve your internal change monitoring workflow, reduce false-positives, and display relevant alterations.

Our filters allow you to strip areas from monitoring (or focus on certain sections), eliminate often-changing numbers and dates, use a proxy network for geo-fenced content, instruct Fluxguard to carry out specific comparisons over others, and more.



## About Us



Based in mossy Portland, Oregon, we're a group of product managers, data scientists, and engineers providing web change intelligence for over 10+ years. Besides Fluxguard, we also offer regulatory change monitoring via [Versionista](#).

We would be delighted to join forces with you.