


Defend your code against **SpringShell** in two ways: read our [blog post](#) with what-to-do advice, and use **Checkmarx SCA** to test your applications.

## Mutation XSS In Mozilla-Bleach Via Noscript

PYTHON MOZILLA XSS MXSS

 Yaniv Nizry Feb 25, 2020

[Details](#)

[Overview](#)

### Summary

Mutation XSS (mXSS) vulnerability in Mozilla-bleach when `noscript` tag is allowed in addition to one of the following tags: `title`, `textarea`, `script`, `style`, `noembed`, `noframes`, `iframe`, `xmp` or `comment`.

This occurs due to bleach utilizing its parser, `html5lib`, with `scripting=False`. In this case, the data of the `noscript` tags will be parsed as HTML, while the browser parses them as rawdata. This can cause arbitrary HTML and JavaScript codes to run on the victim's browser.

### Product

Bleach before 3.1.1

### Impact

According to GitHub, more than 72,000 repositories are dependent on Bleach. Among them are major vendors, including multiple Fortune 500 tech companies.

### Steps To Reproduce

```
>>> import bleach
>>> bleach.clean('<noscript><style></noscript><img src=x onerror=alert(1)>', tags=["noscript", "style"])
```

#### Expected Result:

```
<noscript><style></noscript><img src=x onerror=alert(1)></style></noscript>
```

### Remediation

Update bleach dependency to 3.1.1 and above

### Credit

This issue was discovered and reported by Checkmarx SCA Security Researcher [Yaniv Nizry](#).

### Resources

1. [Blog](#)
2. [Advisory](#)
3. Commit [f77e0f6](#)