

STRIX

Instant navigation

Resource preloading and Speculation rules API



Pushing boundaries in digital commerce

Strix

Optimizing Page Speed with Instant Navigation and Speculation Rules API.



Meet the speaker

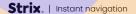
Toon van Doorn

Technical Consultant

We are Strix and

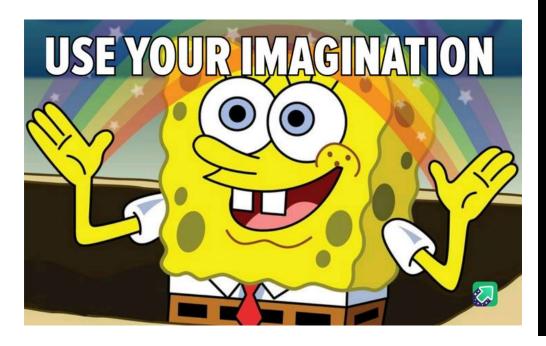
we are pushing boundaries in commerce.

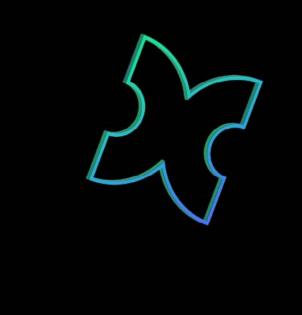




X

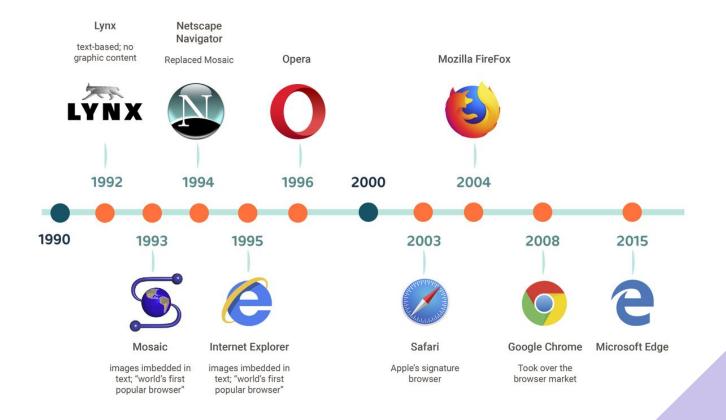
The Challenge of Web Performance





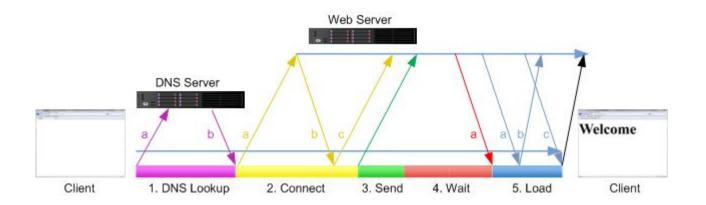


Imagine: You are a web browser . . .



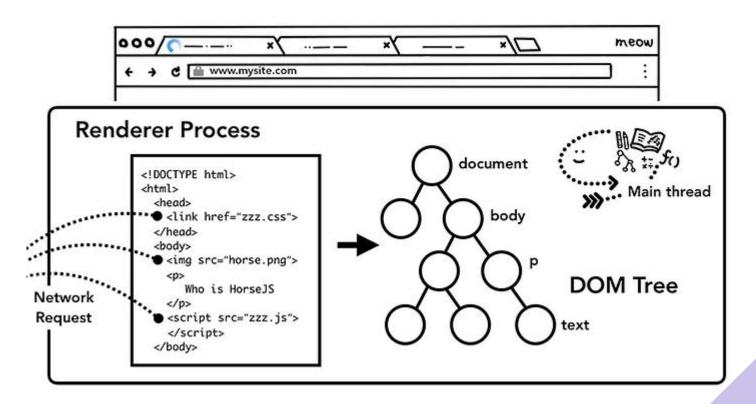


First Steps as a Browser



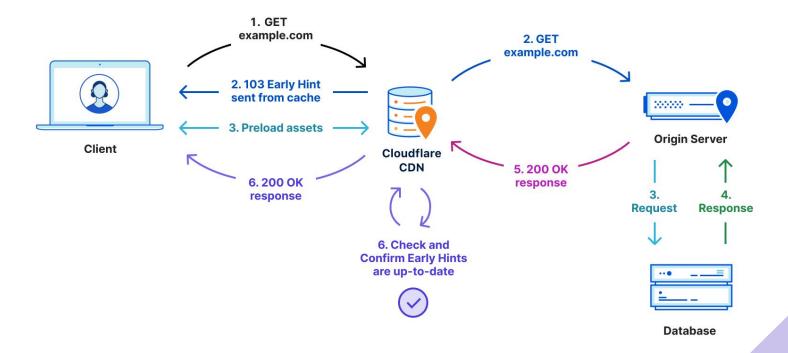


Resource Gathering





The Optimized Journey



Core Web Vitals







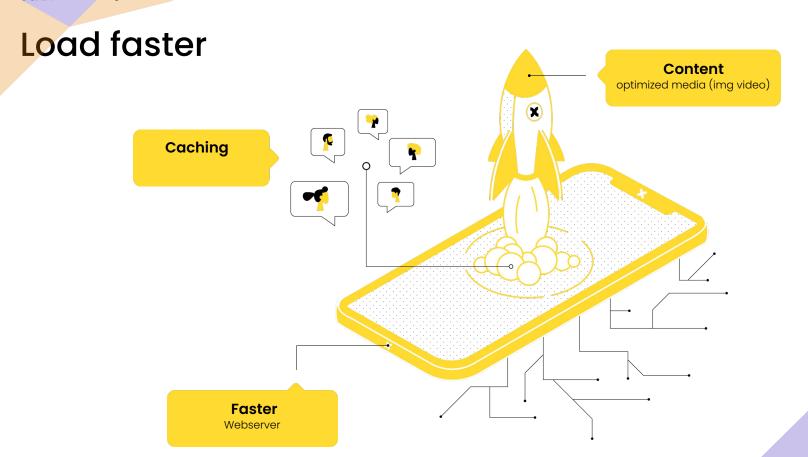
	Good	Poor	Percentile	
Largest Contentful Paint	<2500ms	>4000ms	75	
Interaction to Next Paint	<200ms	>500ms	75	
Cumulative Layout Shift	<0.1	>0.25	75	

Core Web Vitals

(Loading)







Strix. | Instant navigation



With Prerender No Prerender A websites > settofes **Accessibility Week Accessibility Week** those - ALADAM book + Macade 0.2 1.6





"Preload, prefetch or prerender"

Combining

Improve user experience

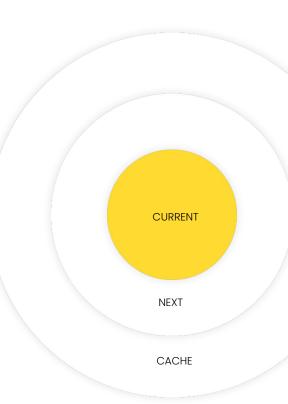


★ Prerender

X Cache

You can let the browser know what resources to preload for the current page visit.

- transmit a resource link in the header response
- 3. send out a 103 early hint (before 2000K)



Prerender next page



Prerender —

X Cache

For the next page visit in the same site you can instruct the browser to prefetch it, or fully prender the next page.

Clicking the link makes an instant navigation.



Cache on all possible levels

Gain advantage

X

Preload

Prerender

X Cache ————

- Application Cache
- HTTP Cache
- Edge Cache
- Browser Cache
- Back and Forward Cache (BF-Cache)



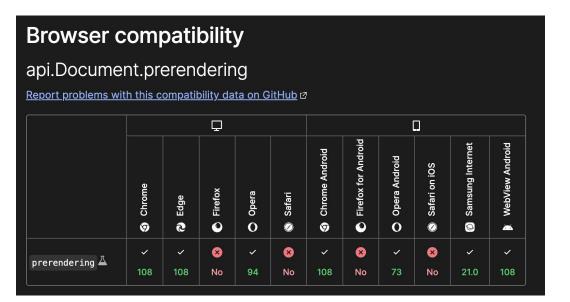
Speculation rules API browser support











How does Speculation Rules API work

```
<script type="speculationrules">
  "prerender": [{
    "where": {
      "and": [
        { "href_matches": "/*" },
        { "not": {"href_matches": "/wp-admin"}},
        { "not": {"href_matches": "/*\\?*(^|&)add-to-cart=*"}},
        { "not": {"selector_matches": ".do-not-prerender"}},
        { "not": {"selector_matches": "[rel~=nofollow]"}}
</script>
```

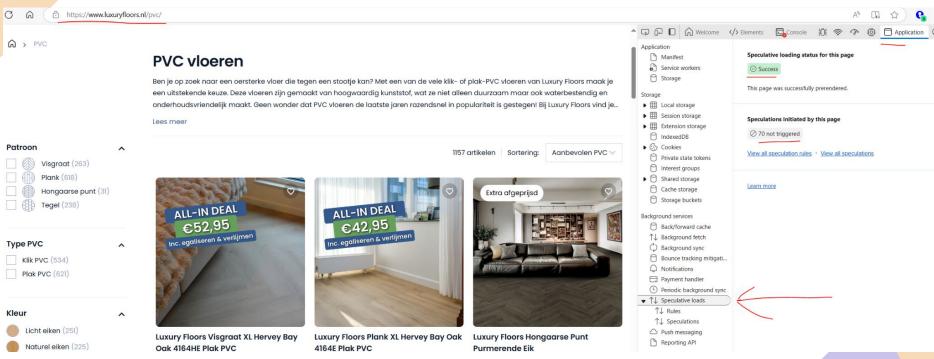
When to prefetch or prerender

Chrome limits

Chrome has limits in place to prevent overuse of the Speculation Rules API:

eagerness	Prefetch	Prerender
immediate/eager	50	10
moderate/conservative	2 (FIFO)	2 (FIFO)

See it working



You hover a link

Speculative loading status for this page

Success

This page was successfully prerendered.

Speculations initiated by this page

∅ 69 not triggered ∅ 1 success

View all speculation rules · View all speculati

Learn more

Speculative loading status for this page

Success

This page was successfully prerendered.

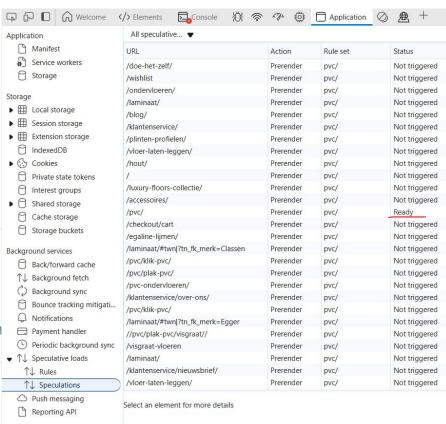
Speculations initiated by this page

Ø 68 not triggered Ø 3

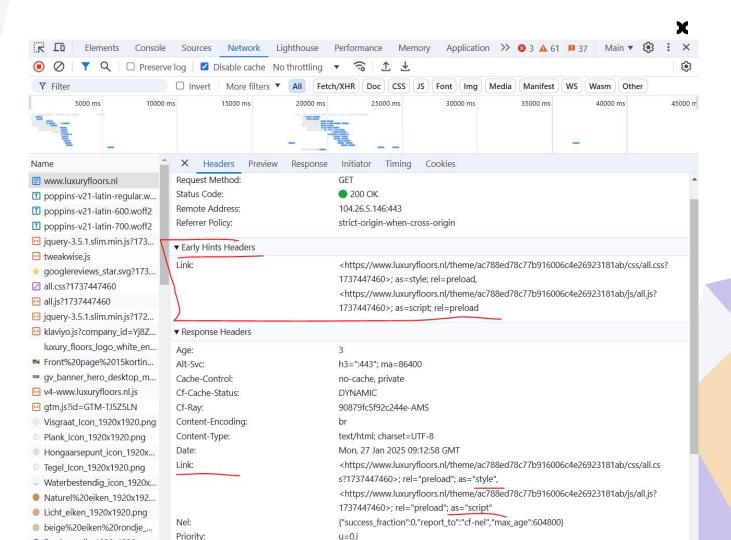
② 2 success

View all speculation rules · View all speculation

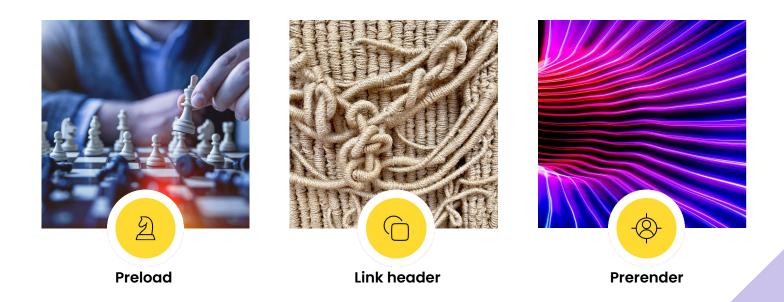
Learn more

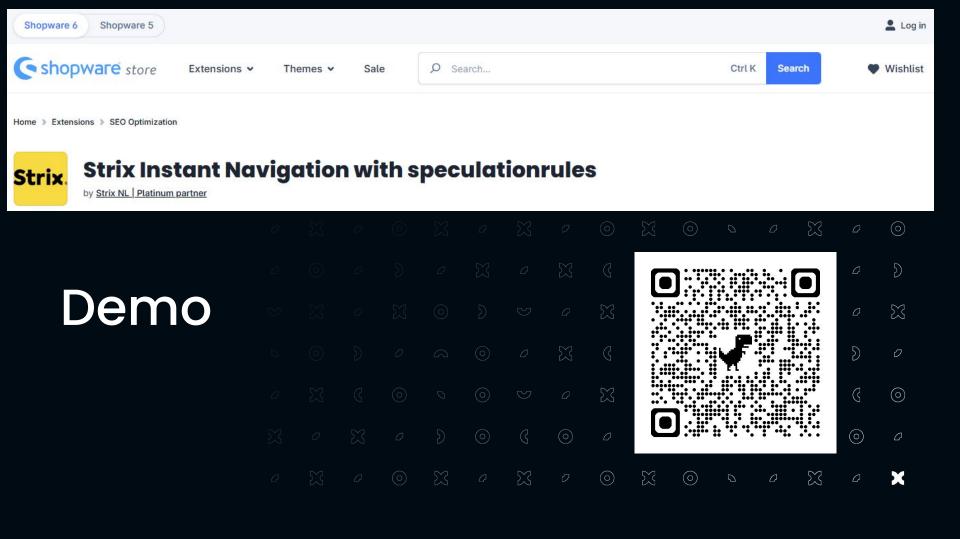


Preload assets



Strix Instant Navigation plugin







CUTTVISION Historic Core Web Vitals data

Distribution

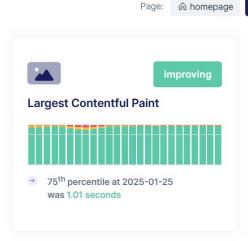
Real User Metrics

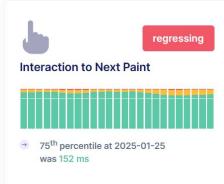
Core Web Vitals assessment: passed

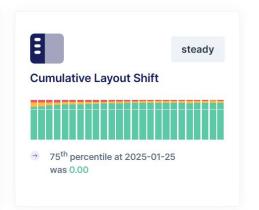
☐ mobile

desktop

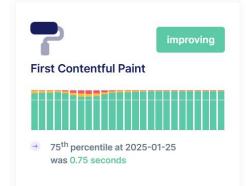
⊕ all pages







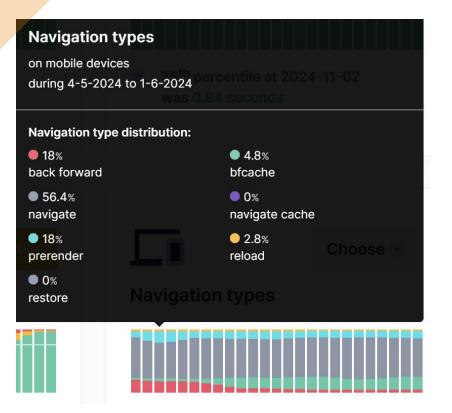
Data: Absolute



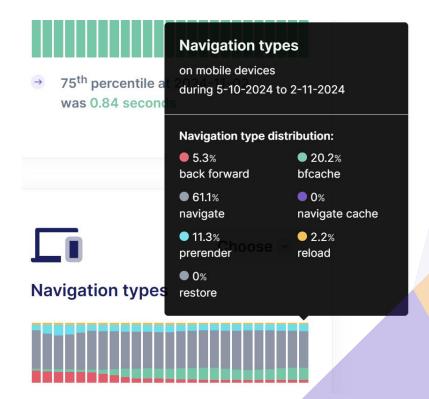




Field results

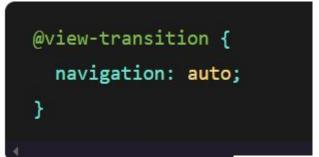


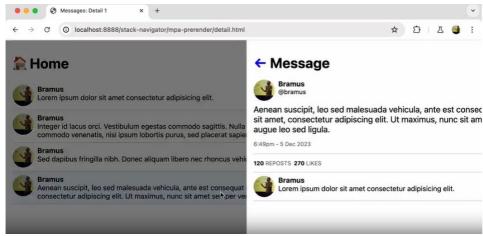




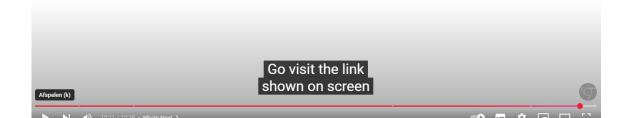
@view-transition







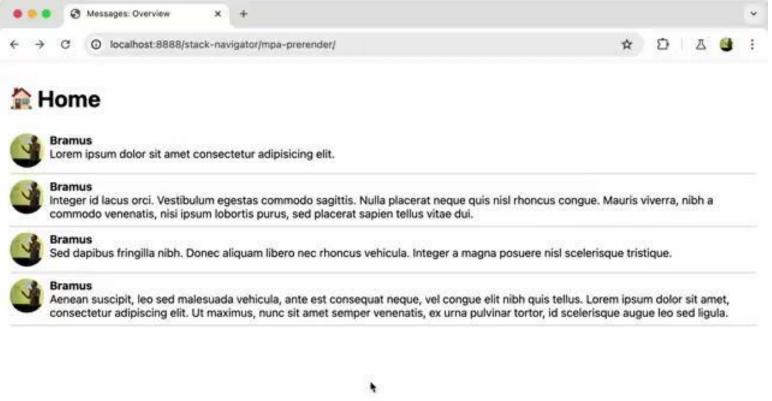
goo.gle/cross-doc-view-transitions



@view-transition



Shopware United Connect



Sustainability

Fewer server requests → Reduced bandwidth → Lower carbon footprint.

Optimized sites save device battery life and load pages faster





























Summary

Web Performance Challenges

 Understanding how browsers handle page loads and why optimizing this process is crucial for user experience. Use real user data instead of synthetic tests.

Key Optimization Techniques

 Leveraging resource preloading, prerendering, and caching strategies to deliver faster, seamless navigation.

Speculation Rules API

Using modern browser capabilities to preload and prerender next-page visits effectively.

Strix Instant Navigation Plugin

 A ready-to-use solution to implement preloading and prerendering in Shopware, enhancing user experience effortlessly.

One more thing . . .

Exclusive Offer: The **Strix Instant Navigation Plugin** is available at a **discount this month** only!

- Unlock faster navigation, better performance, and happier users for less.
- Scan the QR code or visit the Shopware store to claim your discount today!



One more thing . . .

Shopware Indexing Performance Breakthrough 🚀

- SWAG Language Pack installs 30 languages by default.
- Even with a few enabled, indexing is heavily impacted.
- On a shop with 2M+ SKUs, manual cleanup yielded:
 - 85% performance boost ≠
 - Indexing time cut from 0.33s to 0.05s per product.

Less is more! 🎉



Dank u wel!

)

Q & A

if there is time;)

Or meet me later . . .