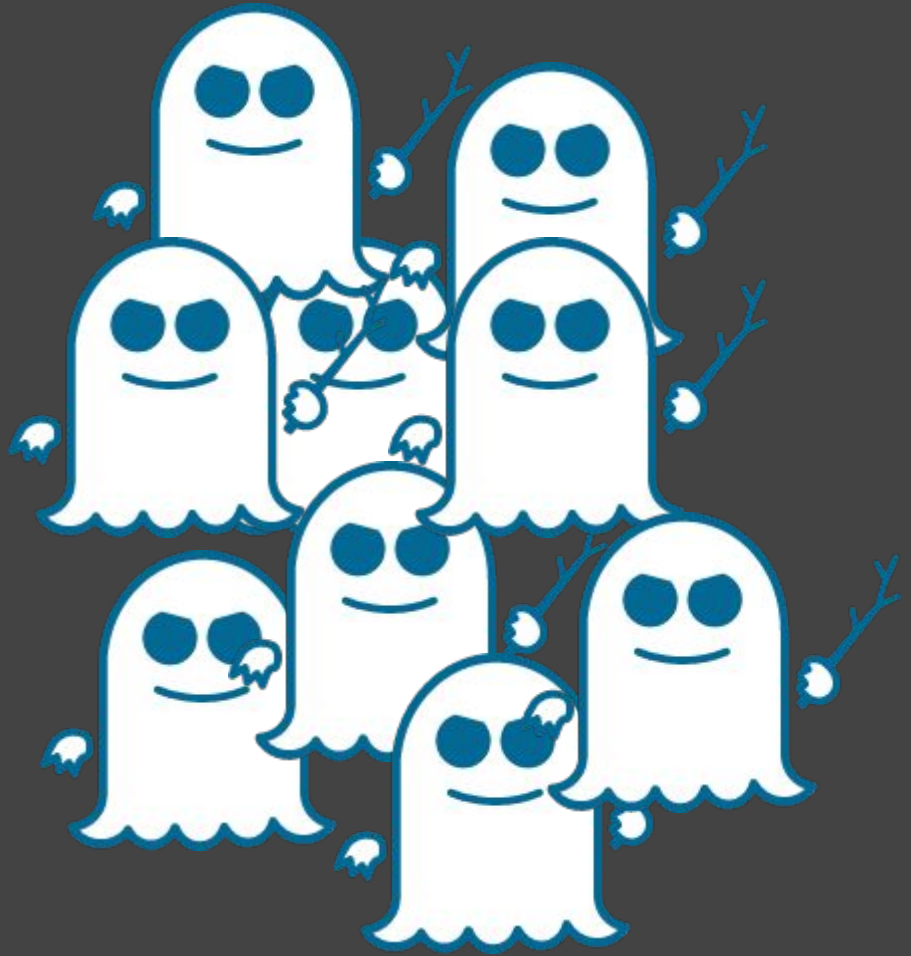




Isolation by Default

XSLeaks Summit 2020-12-01 — Camille Lamy & Mike West

Status quo ante:



Status quo: Well-informed developers will adopt CORP, XFO, COOP, and COEP. Less-informed developers remain vulnerable.

The Future? Browsers will isolate documents *by default*. Developers who require cross-origin collaboration can opt-out of isolation.



A Few Modest Proposals

User agents should:

1. Apply C00P: `same-origin-allow-popups` by default:
<https://github.com/mikewest/coop-by-default/>
2. Require embedees to opt-into framing rather than out of it:
<https://github.com/mikewest/embedding-requires-opt-in/>
3. Deprecate and remove impediments to origin isolation by default (most notably `document.domain`): <https://github.com/mikewest/deprecating-document-domain>



A Few More Modest Proposals

User agents should:

4. Require opt-in for communication across network boundaries:
<https://wicg.github.io/cors-rfc1918/>
5. Shift towards credentialless requests by default (`SameSite=Lax` on the one hand, `COEP: x-bikeshed-credentialless-unless-cors` on the other):
<https://github.com/mikewest/credentialless/>
6. Strict MIME type checking, in conjunction with CORB/ORB.

What else should
we try to ~~break~~ fix?