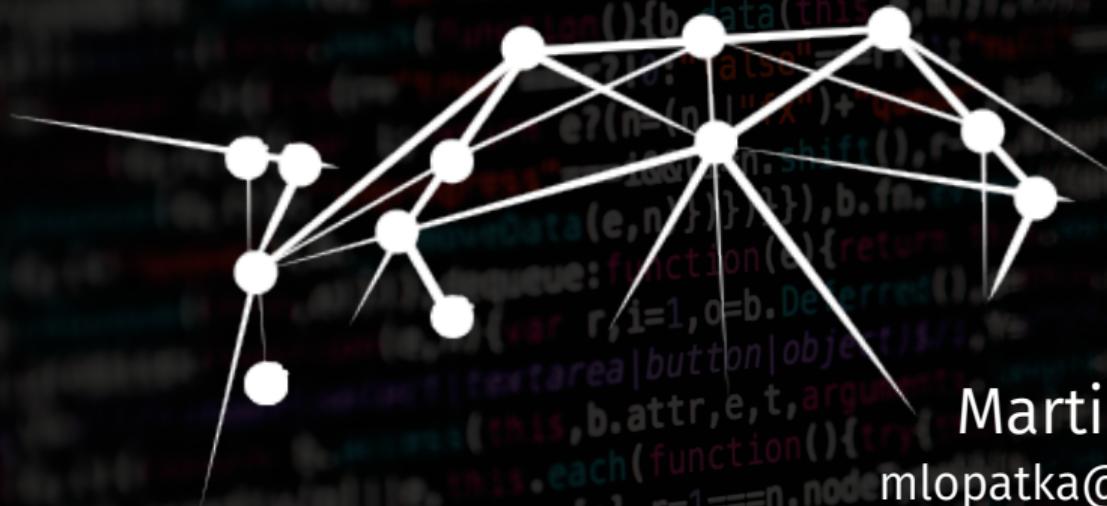


The Morphology of the Web is Changing!



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Disclaimer

Martin Lopatka provides this contribution to the Data Natives 2018 conference in a personal capacity. The views expressed are his own and do not necessarily represent the views of Mozilla Corporation or the Mozilla Foundation.

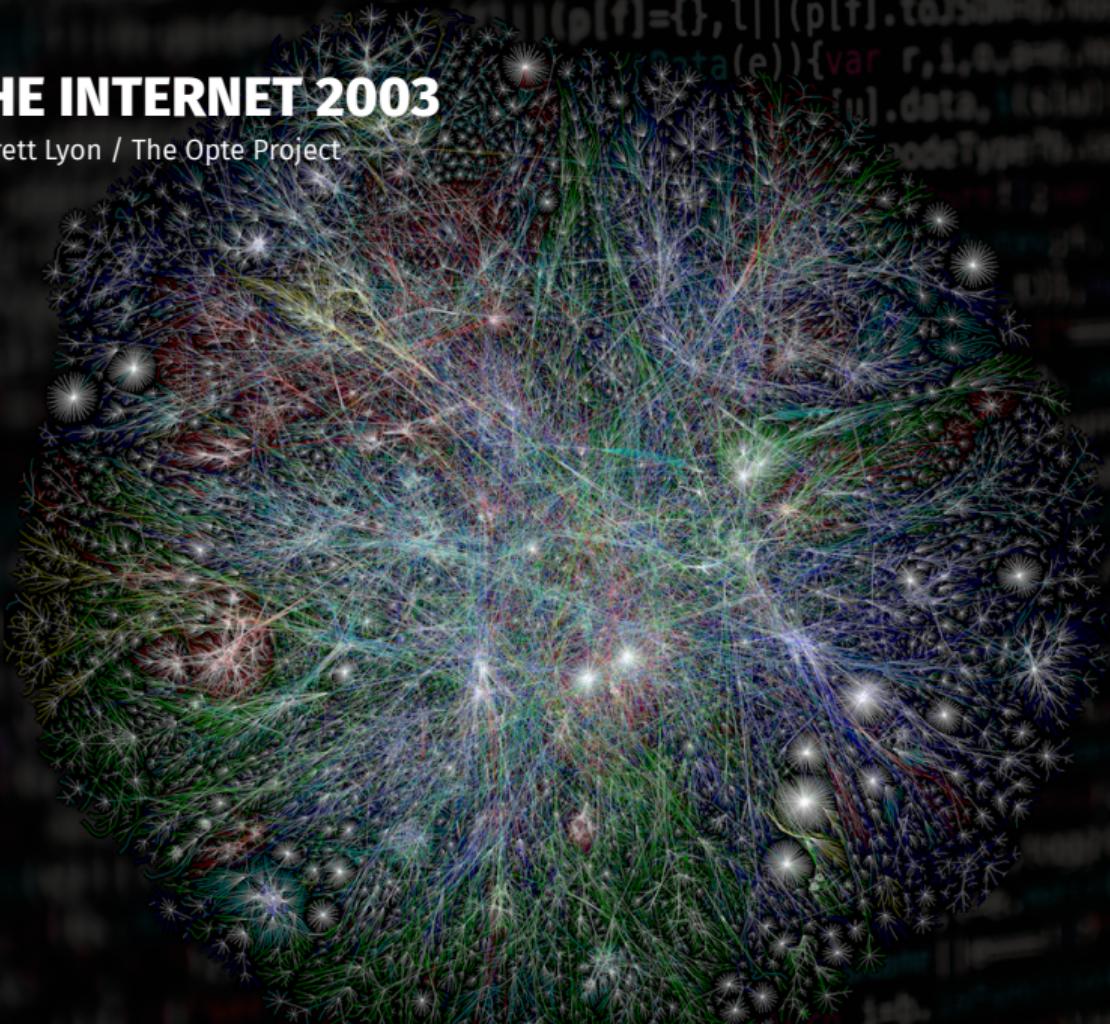


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THE INTERNET 2003

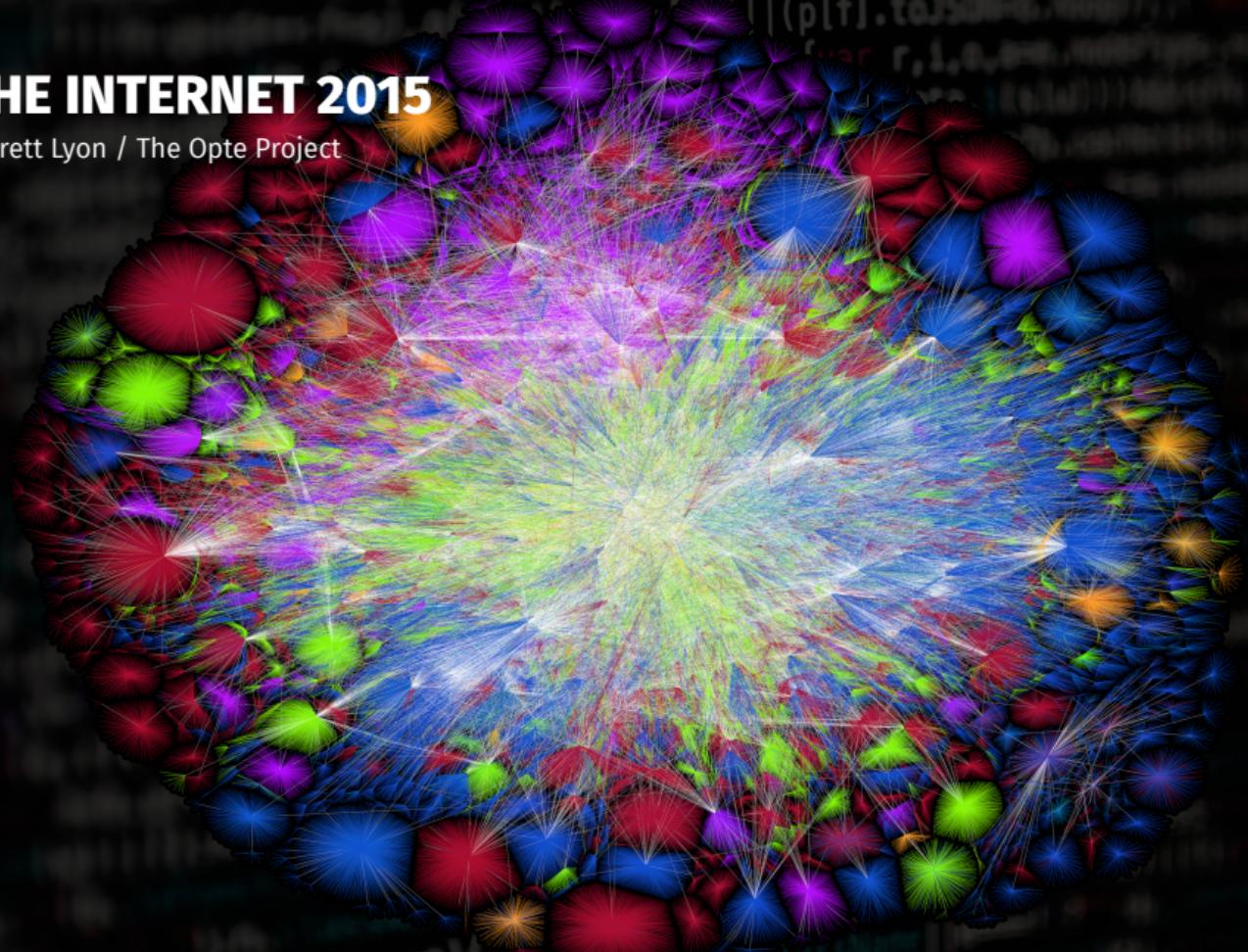
Barrett Lyon / The Opte Project



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THE INTERNET 2015

Barrett Lyon / The Opte Project

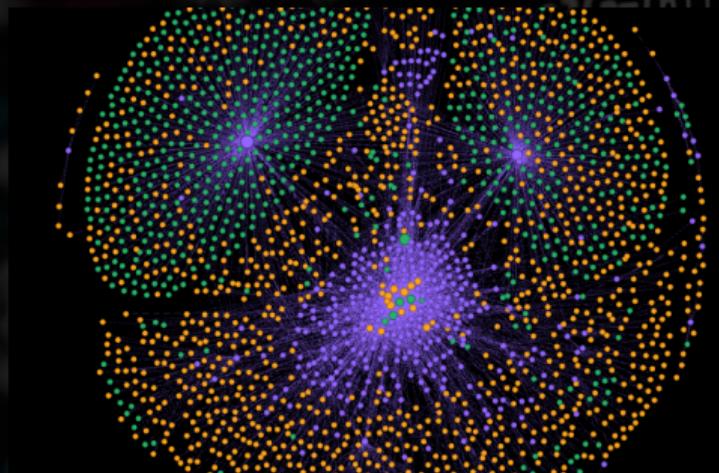


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The centrality of advertisers

Are trackers the new backbone of the Web?

<https://medium.com/firefox-context-graph/are-trackers-the-new-backbone-of-the-web-fb800435da15>



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How did we get to an ecosystem of silos?

- ▶ 40% of total Web browsing page views can be attributed to only 65 top level domains (TLD)
- ▶ Five (TLD+1) sites (Google, Facebook, Amazon, Yahoo, and Reddit) make up 22% of all traffic¹
- ▶ Of the 22,310,889 domains processed, 52.63% (11,742,112) were found to serve advertisements²

¹<https://medium.com/firefox-context-graph/are-trackers-the-new-backbone-of-the-web-fb800435da15>

²<https://commeica.com/2018/06/27/web-ad-prevalence/>

Social platforms were designed to facilitate; they became attention brokers, they are designed to help companies reach users as these sort of middlemen where they know a ton about you and that's the service they are providing to the advertisers.

Renee DiResta "The Internet's Original Sin"

27-Oct-2018 12:45



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The highest trafficked pages on the Web³ are search engines, Social media platforms, and Commerce platforms

1. Google.com
2. Youtube.com
3. Facebook.com
4. Baidu.com
5. Wikipedia.org *
6. Qq.com
7. Taobao.com
8. Yahoo.com
9. Tmall.com
10. Amazon.com

³<https://www.alexa.com/topsites>; accessed 20-Nov-2018 11:17

The new ecology of outbound links

Dynamic pages feature changing content, showing different text, images and videos depending on who's visiting and when. This dynamic content includes different hyperlinks.

- ▶ retargeting
- ▶ advertisement
- ▶ realtime bidding
- ▶ social linking



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The problem is that the web is no longer built upon the simple premise of a collection of small static HTML and image files served up with a simple tag structure and readily parsed with a few lines of code. Today's web is richly dynamic, multimedia and increasingly broken into walled gardens and device-specific parallel webs.

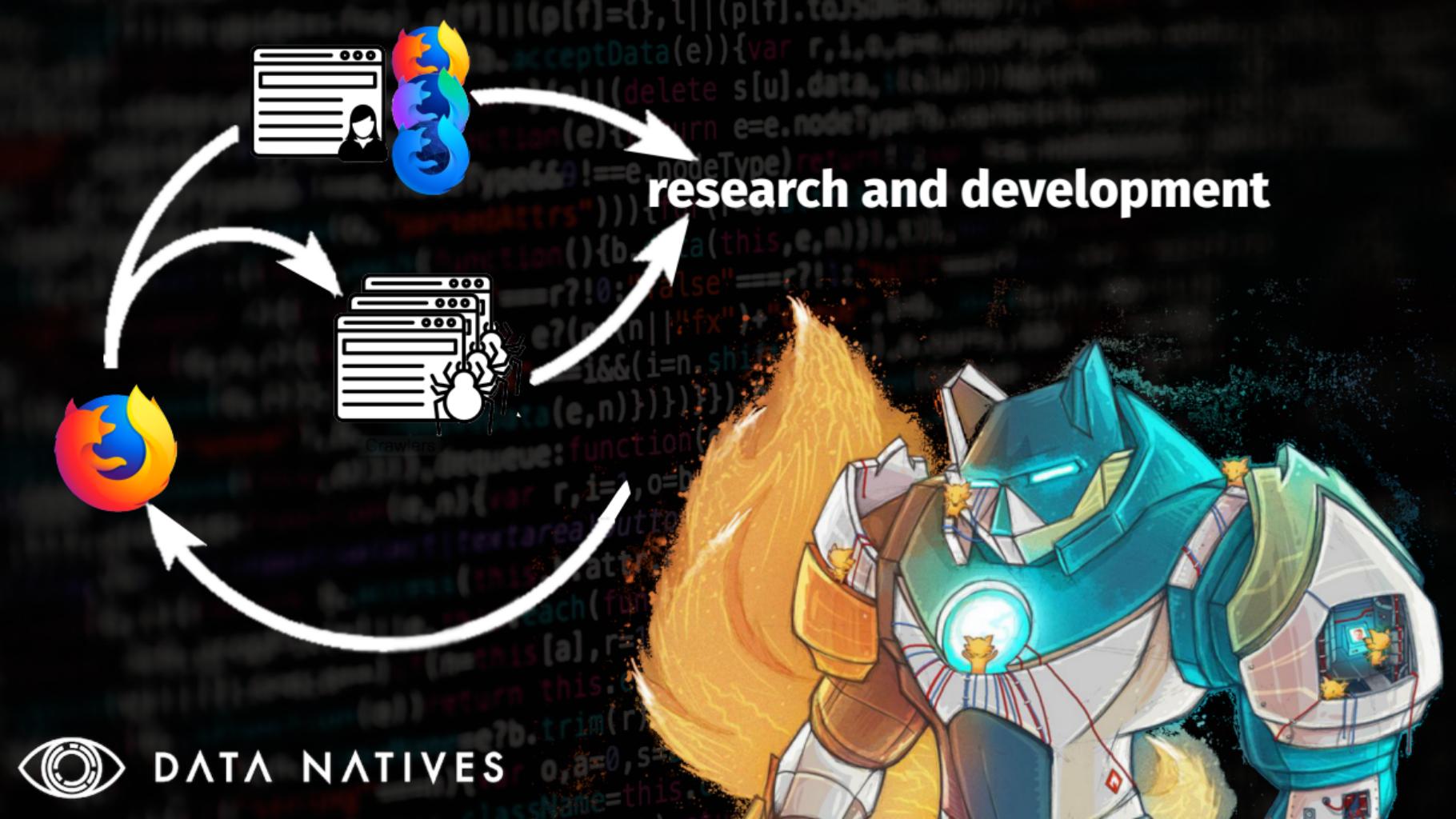
Kalev Leetaru “Are Web Archives Failing The Modern Web: Video, Social Media, Dynamic Pages and The Mobile We”

24-Feb-2017 22:41



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research and development



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Make Firefox better with pioneer



Firefox Pioneer
by Mozilla

<https://medium.com/firefox-context-graph/make-firefox-better-with-pioneer-10c82d0f9301>



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Overscripted!

[https://github.com/mozilla/
overscripted/](https://github.com/mozilla/overscripted/)



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 - ▶ Zejun Yu
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 - ▶ Jason Thomas
 - ▶ Vivian Jin
 - ▶ Toby Elliott
 - ▶ Steven Englehardt
 - ▶ Tyler Rubenuik
 - ▶ Chris Lonnaen
- ▶ Kyle Kung
 - ▶ Alex McCallum



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<https://github.com/mlopatka>



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