

The Morphology of the Web is Changing!



Form and structure of the modern Web



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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.

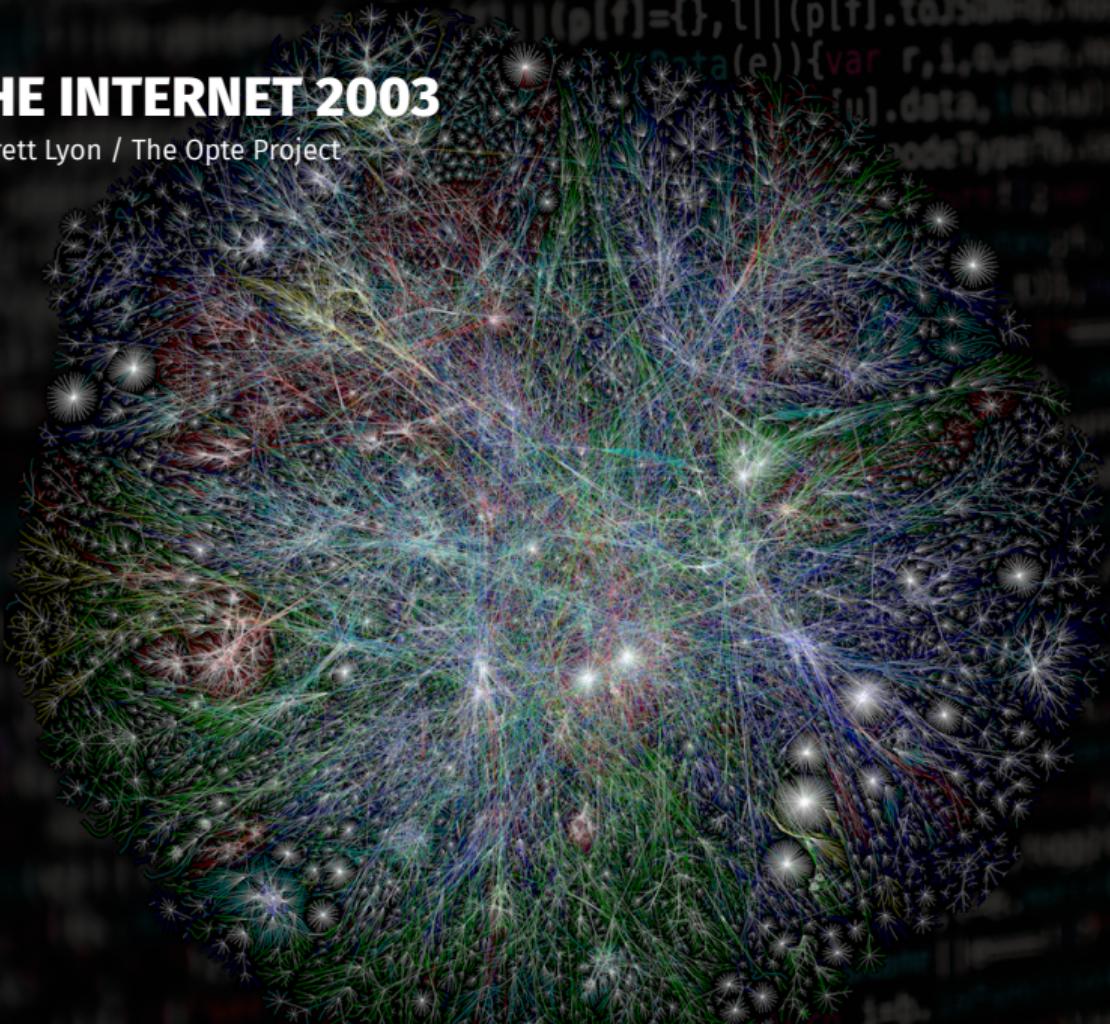


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THE INTERNET 2003

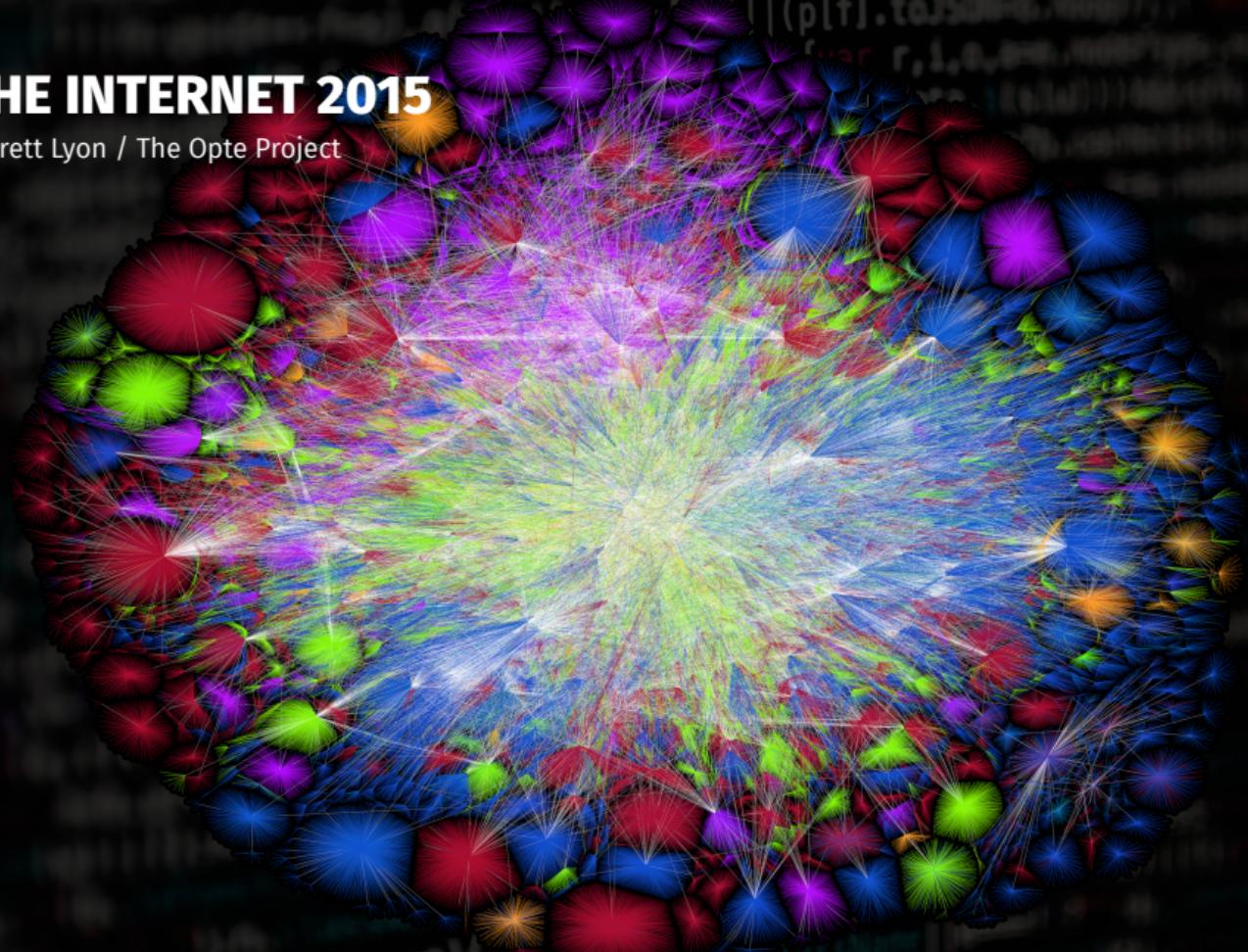
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THE INTERNET 2015

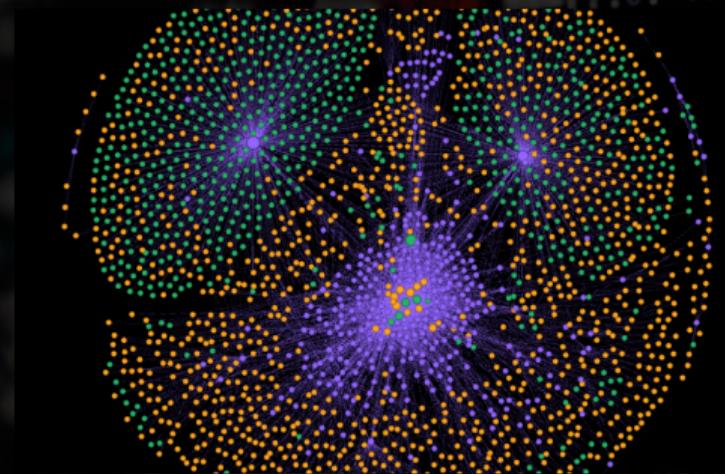
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The Centrality of Advertisers

Are trackers the new backbone of the Web?



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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
- ▶ 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 ads²

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 Web 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



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 Web"

24-Feb-2017 22:41



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The new ecology of outbound links

- ▶ Retargeting
- ▶ advertisement
- ▶ realtime bidding
- ▶ social linking



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I can't help but feel nauseous when I am loading independent.co.uk, Firefox literally grinds to a halt because of the extreme amount of tracking requests being logged in the browser console, and a popup shows up and says "We value your privacy"

motin

28-Oct-2018 11:37



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transparency, technology, education



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Challenges to crawl technology

- ▶ Limited View - the open web makes up less and less of the Web. Content Silos
- ▶ Dynamic content serving
- ▶ Walled gardens



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Overscripted!

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



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