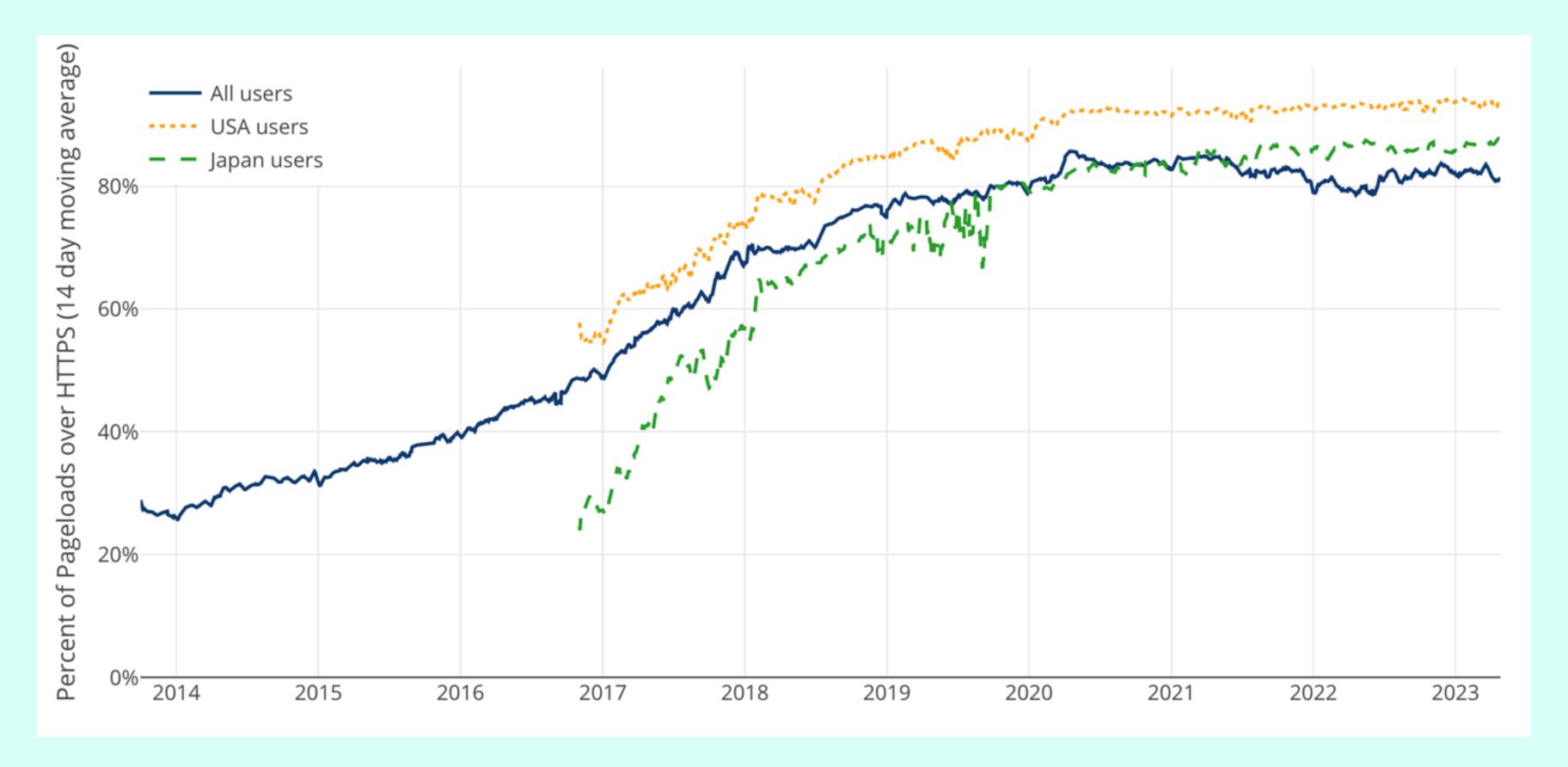
Certificate Transparency

Supporting Critical Internet Infrastructure

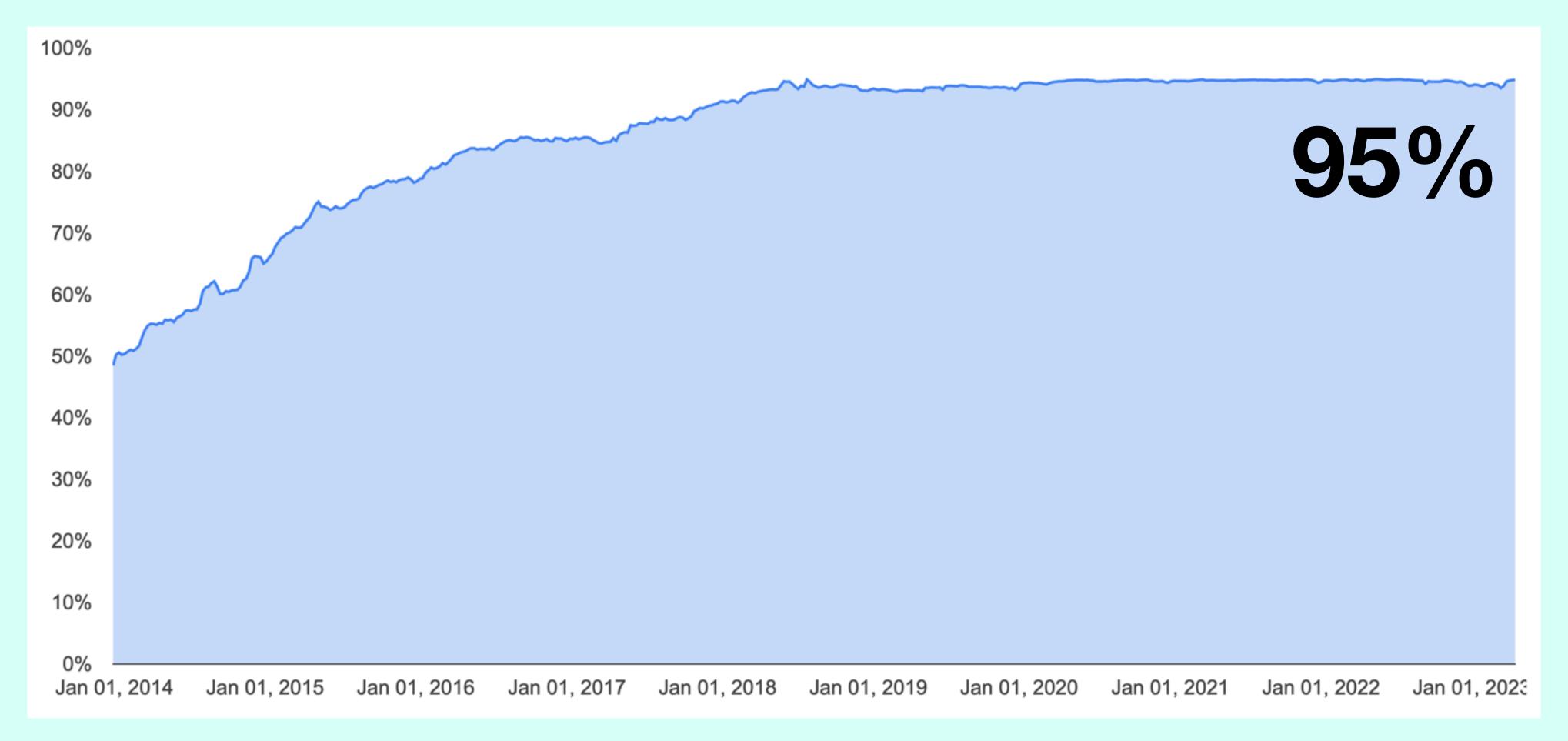
Brought to you by:



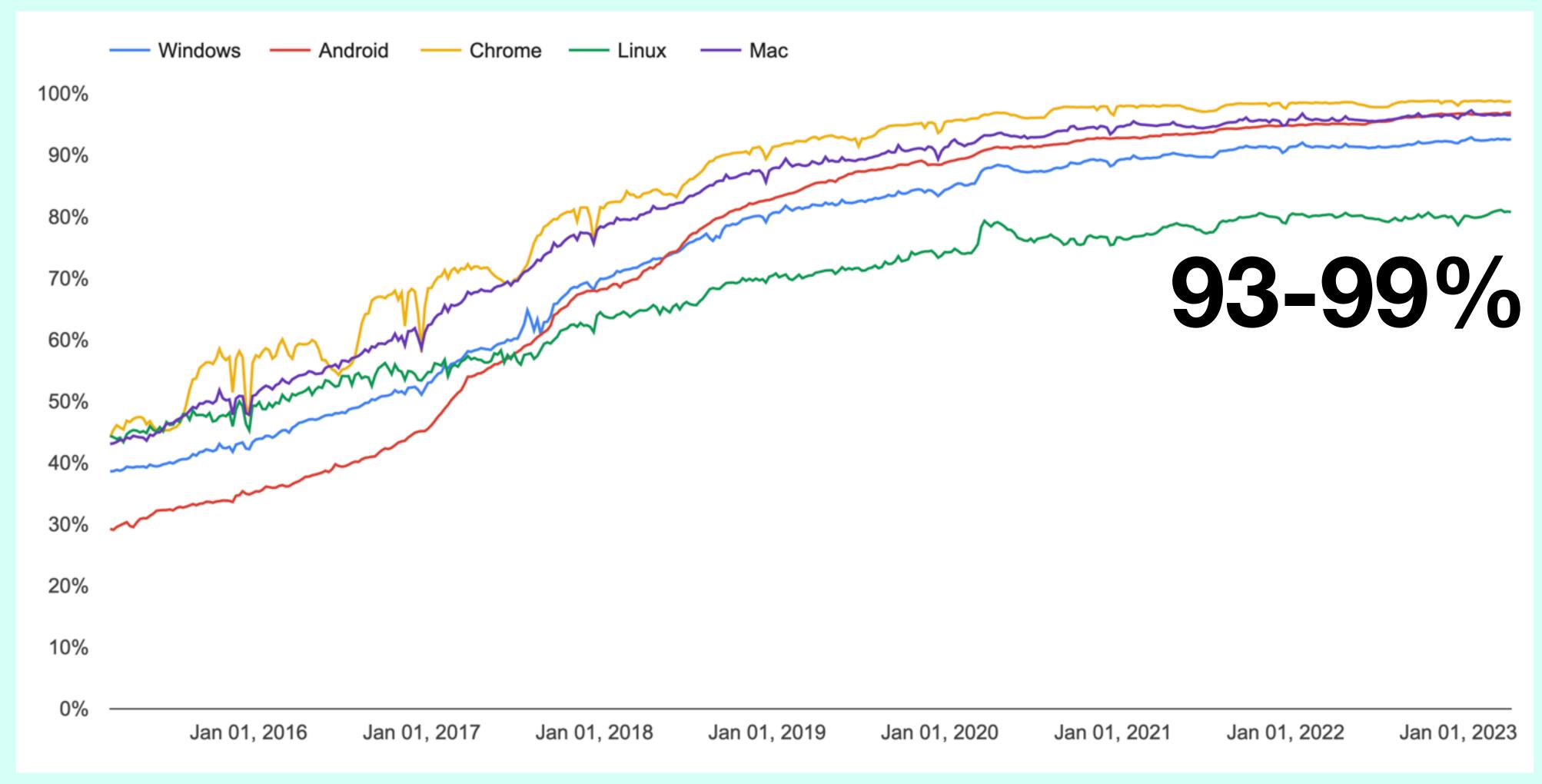




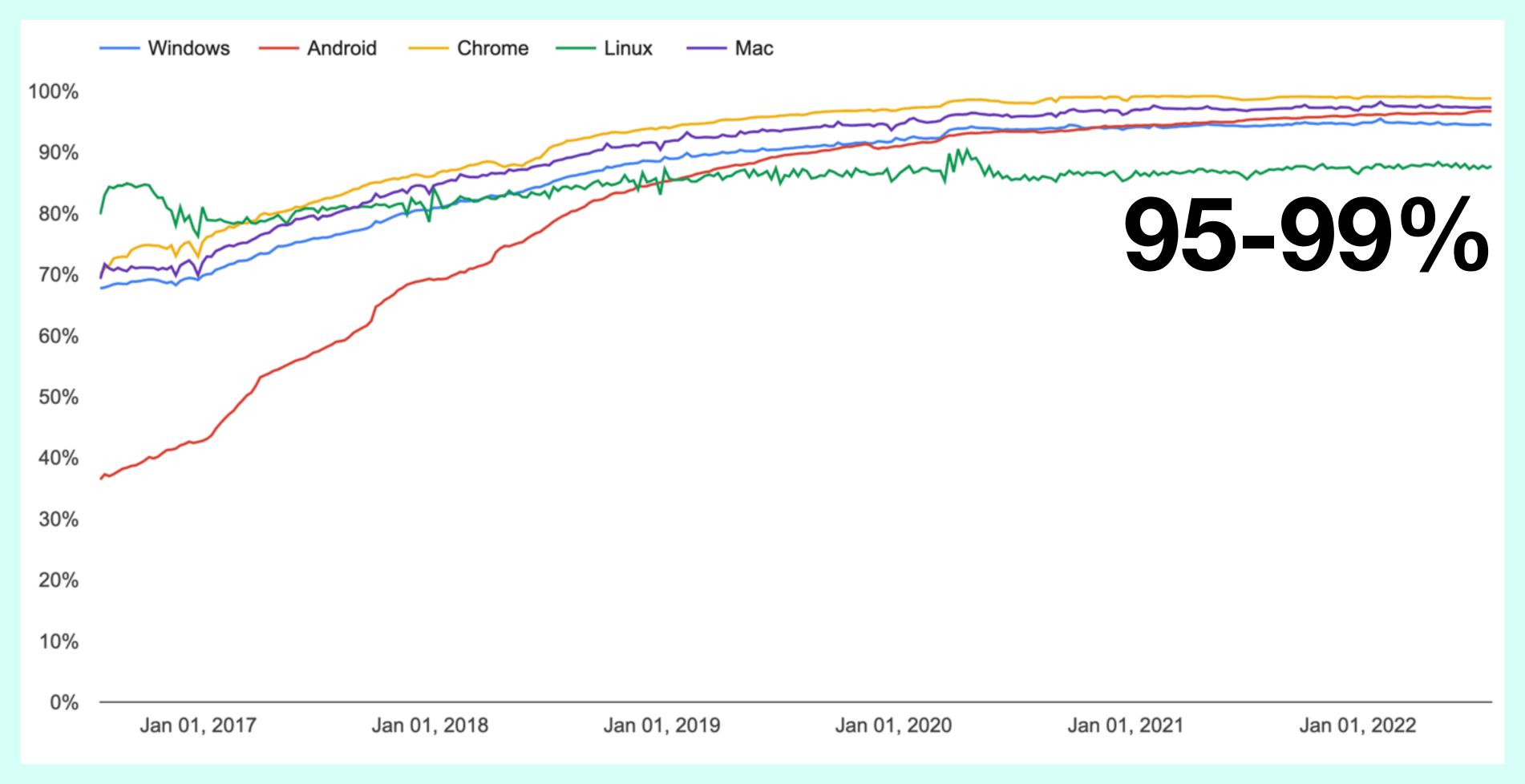
Percentage of Web Pages Loaded by Firefox Using HTTPS Source: Mozilla



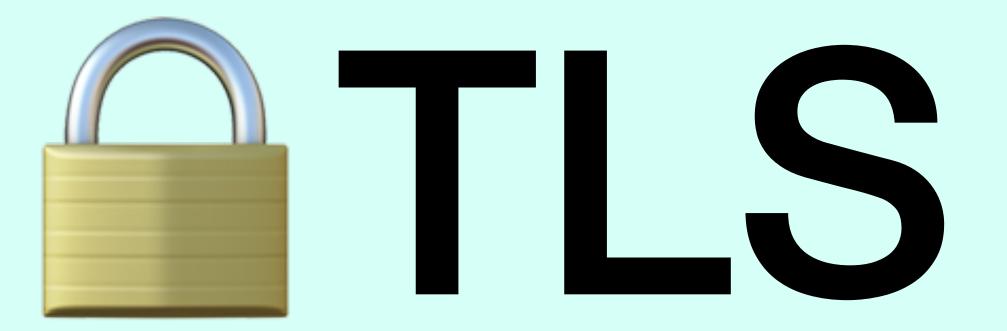
Percentage of Google's traffic encrypted with TLS Source: Google



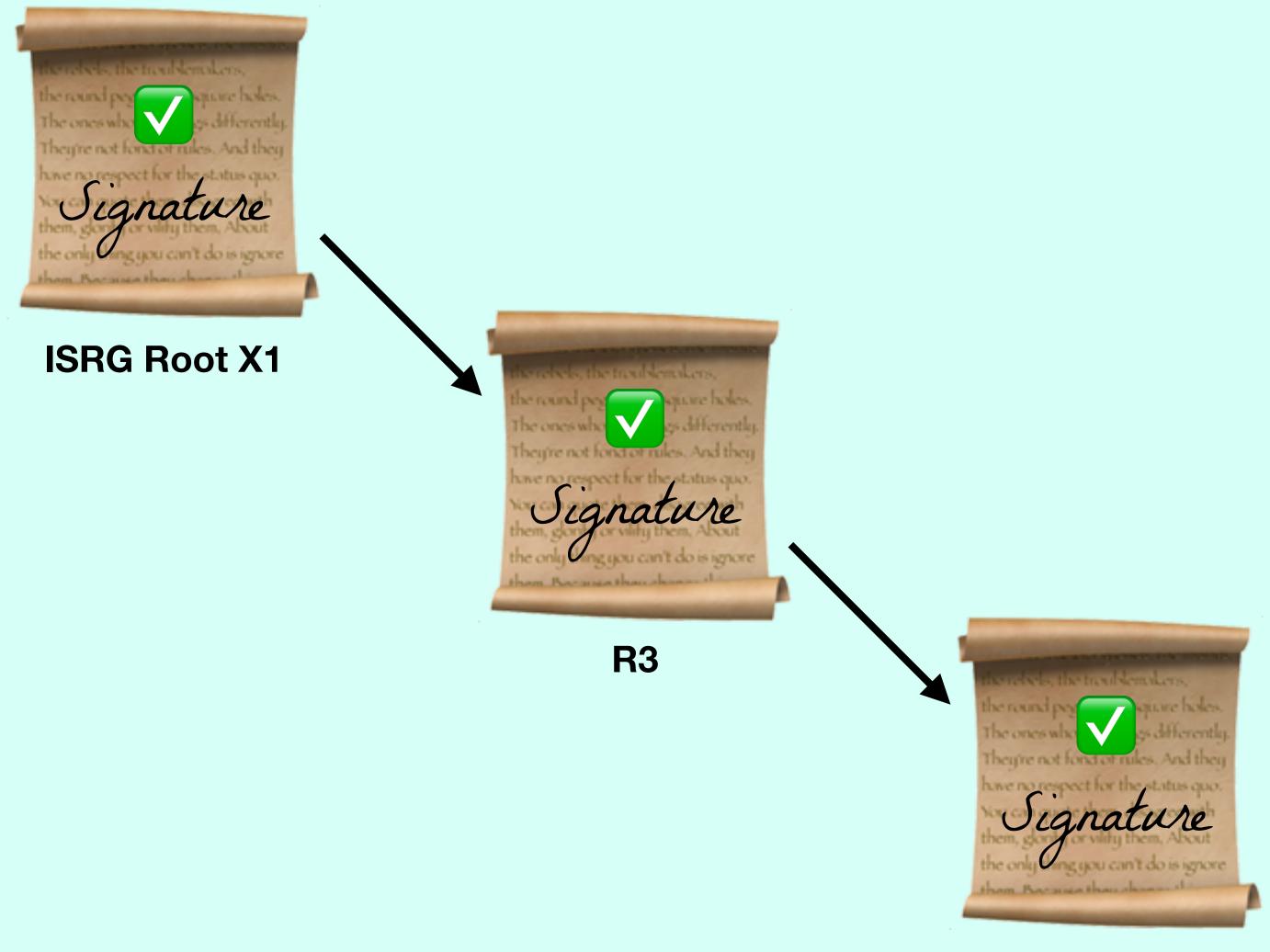
Chrome page loads over HTTPS (with TLS)
Source: Google



Chrome browsing time over HTTPS (with TLS)
Source: Google



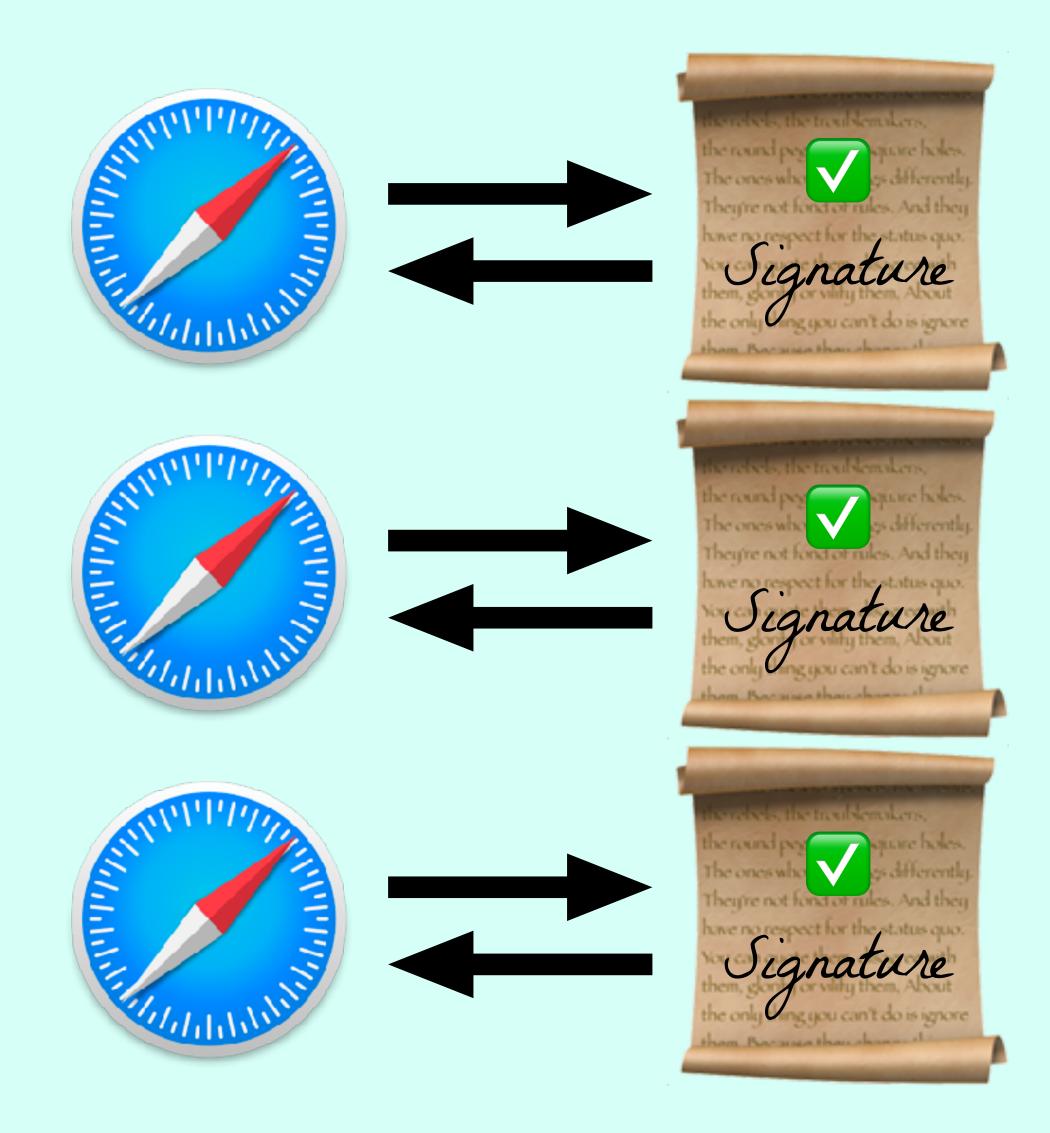
WebPKI



grnog.gr

RPKI vs WebPKI





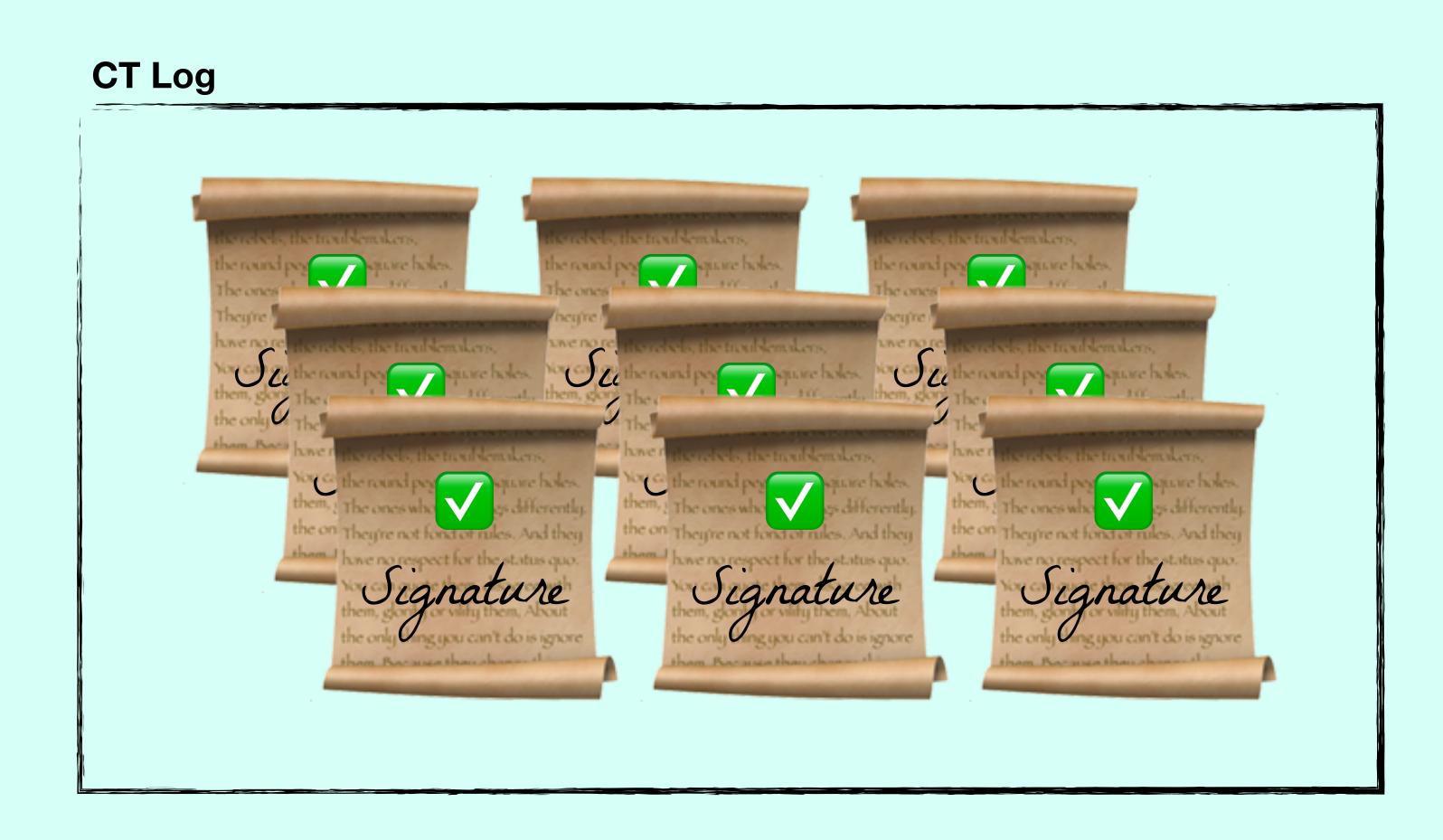
DigiNotar SSL certificate hack amounts to cyberwar, says expert

Dutch government revokes certificates used for all its secure online transactions, while CIA, Google, Microsoft and others affected by hack called 'worse than Stuxnet'



The Dutch government has revoked all trust in digital certificates issued by DigiNotar

Certificate Transparency





Your connection is not private

Attackers might be trying to steal your information from **fincen.gov** (for example, passwords, messages, or credit cards). <u>Learn more</u>

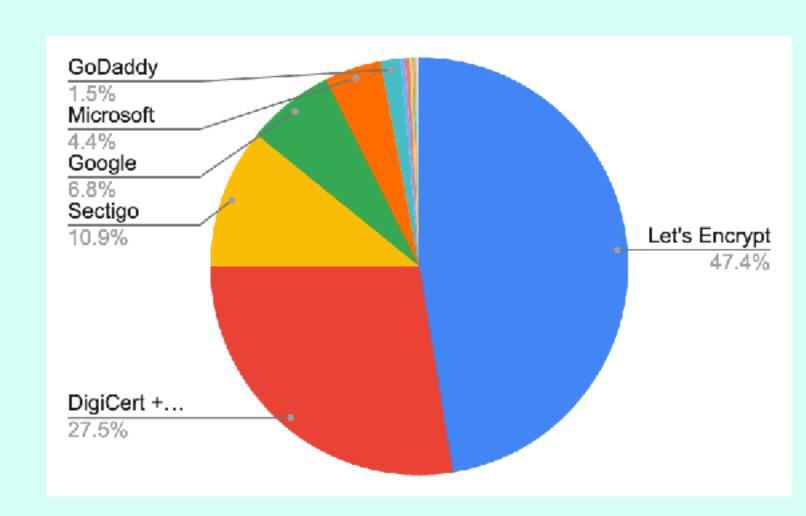
NET::ERR_CERTIFICATE_TRANSPARENCY_REQUIRED

Advanced

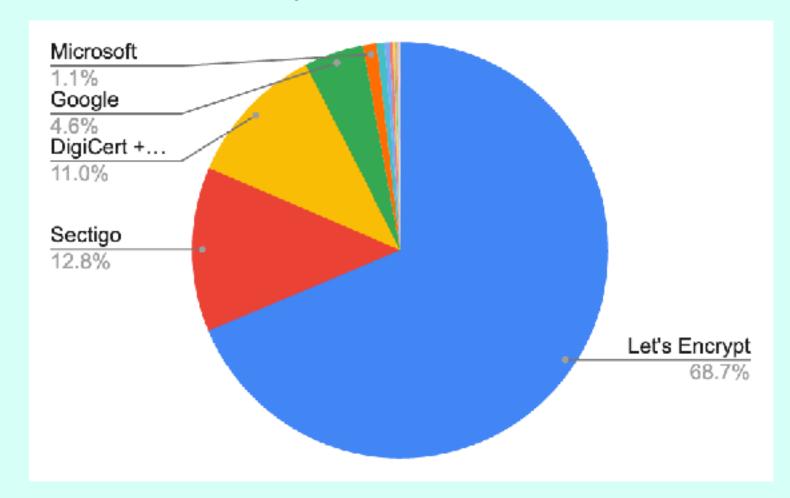
Back to safety

WebPKI Size

- Over 4.8 Billion Certificates in CT Logs
 - Over 0.5 Billion Active / Unexpired
- Over 250,000 new certificates per hour



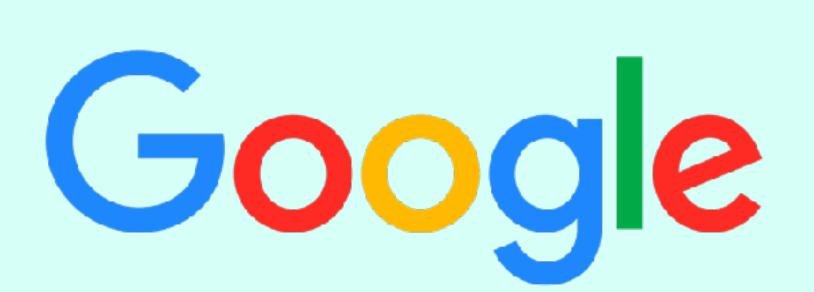
Currently Active / Unexpired



Total in Certificate Transparency











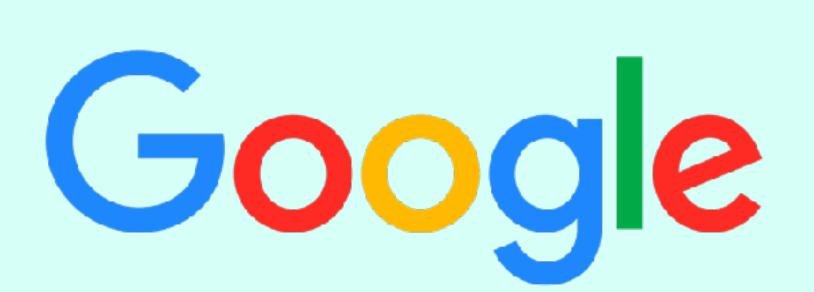
5ECTIGO®

Phil, what does it take to operate one of these?

Cool



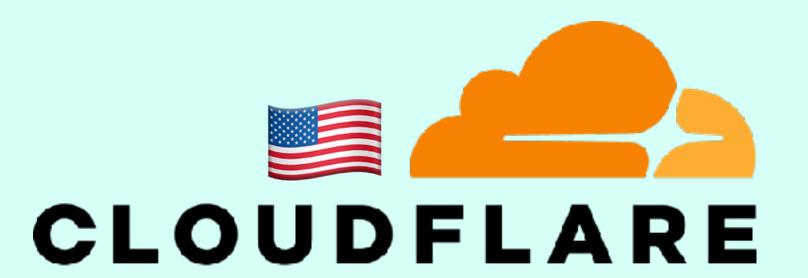








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We need more CT Logs!

Setting up a CT Log

- Apple & Google have guidelines & requirements
- You can apply like this for consideration
- You can join the community mailing list

You're not alone!

Use the mailing list, or feel free to contact morectlogs@daknob.net for discussion, help, insights, advice, or anything we can do at any phase of the project:)