Outline

● Why?
● The story so far
● References
● Standards! How?
Why?

● Loading websites peer-to-peer instead of via expensive internet.
  ○ Anti-censorship and anti-surveillance
● Fix AMP: True URLs and non-AMP private prefetch
● Web publications?
● Optimize small and cross-origin resources
● Vouched websites
The story so far

- Discussions at IETF99 and IETF101
- Split Signed Exchanges (SXG) from Bundled Exchanges
- SXG specification fleshed out
- Investment in SXG from AMP users
- Chrome 73 shipping SXG-b3
Signed Exchanges

- 1 HTTP request/response pair
- Cross-origin trust via a TLS-like certificate
- O(week)-expiration
- Updateable signatures

Bundled Exchanges

- Many request/response pairs
- Each optionally signed
- Streamable
- Random-access
The story so far

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Investment in Signed Exchanges

- 1800Flowers
- Yahoo! Japan
- Ikyu Corporation
- OYO
- Tencent
- Washington Post
- Digicert
- Cloudflare
The story so far

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Documents

- [draft-yasskin-http-origin-signed-responses](#)
  - [draft-yasskin-httpbis-origin-signed-exchanges-impl](#)
- [WICG.github.io/webpackage/loading.html](#)
- [draft-yasskin-wpack-bundled-exchanges](#)
- [draft-yasskin-webpackage-use-cases](#)
What's next?

● Incorporate SXG feedback from deployment
● Check and improve the security story
● Specify and implement Bundles
● ESCAPE Workshop (see mnot)
● Hand ownership to standards bodies!
Standards track

- Create an IETF WG?
  - WPACK meeting Wed to prepare for BOF at IETF105
- HTTPWG
- WHATWG/W3C for Fetch integration
Links

- https://github.com/WICG/webpackage
- wpack@ietf.org
- webpackage-dev@chromium.org