

Some observations of TLS in the web

Perspectives

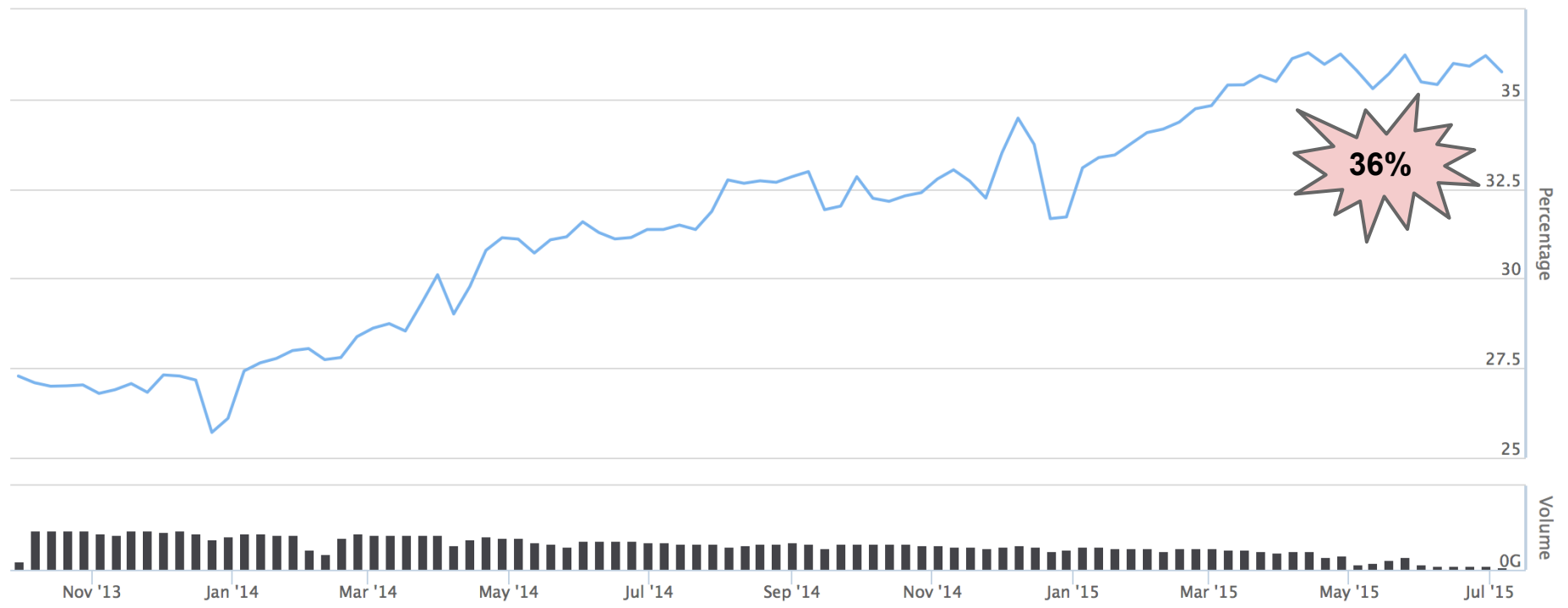
	Easy	Hard
Browser	% of transactions	% of sites
Servers / hosting providers	% of clients, transactions	% of sites
Scanning	% of sites*	% of transactions

How much TLS is there?

Time series for HTTP_PAGELOAD_IS_SSL, bin(s) 1 (in %)

Zoom 1m 3m 6m YTD 1y All

From Sep 30, 2013 To Jul 12, 2015

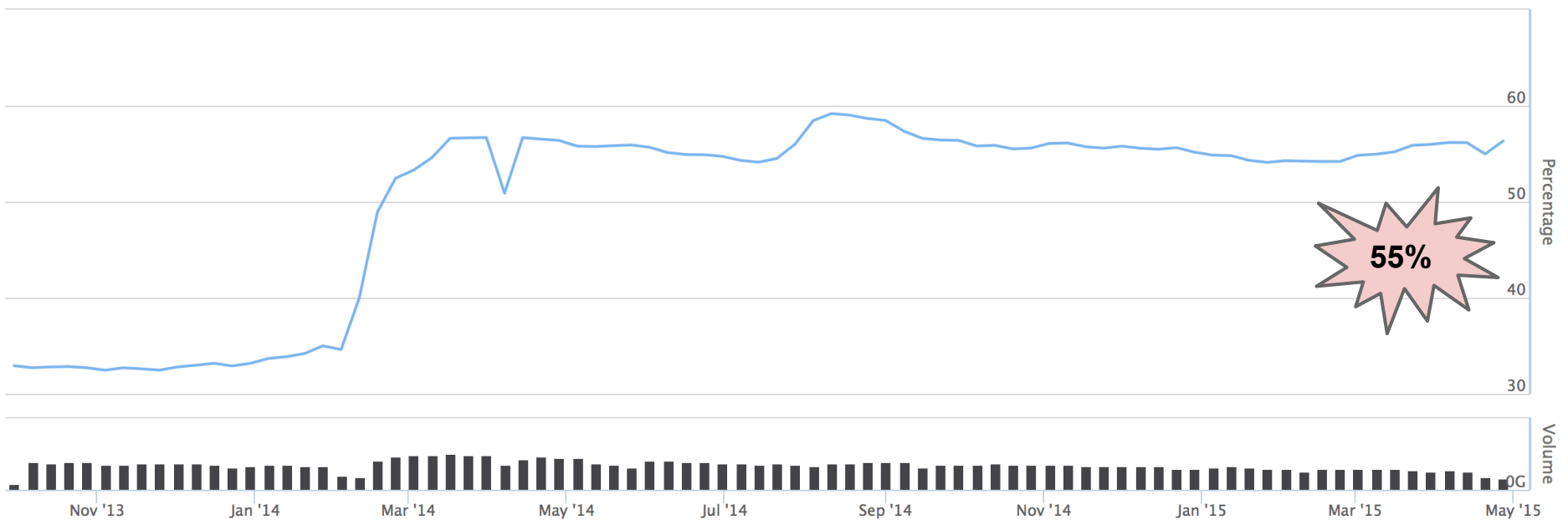


How much TLS is there?

Time series for HTTP_TRANSACTION_IS_SSL, bin(s) 1 (in %)

Zoom 1m 3m 6m YTD 1y All

From Sep 30, 2013 To May 3, 2015



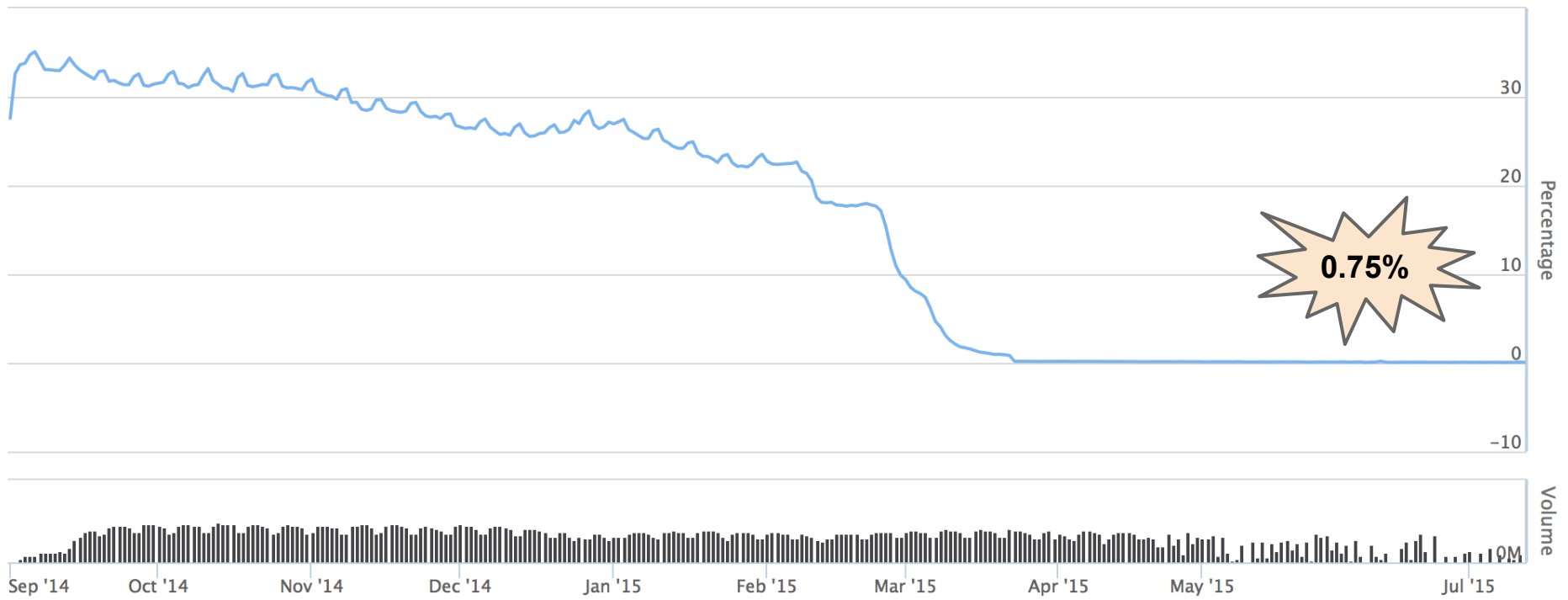
55%

How much RC4?

Time series for SSL_SYMMETRIC_CIPHER_FULL, bin(s) 1 (in %)

Zoom 1m 3m 6m YTD 1y All

From Sep 1, 2014 To Jul 12, 2015

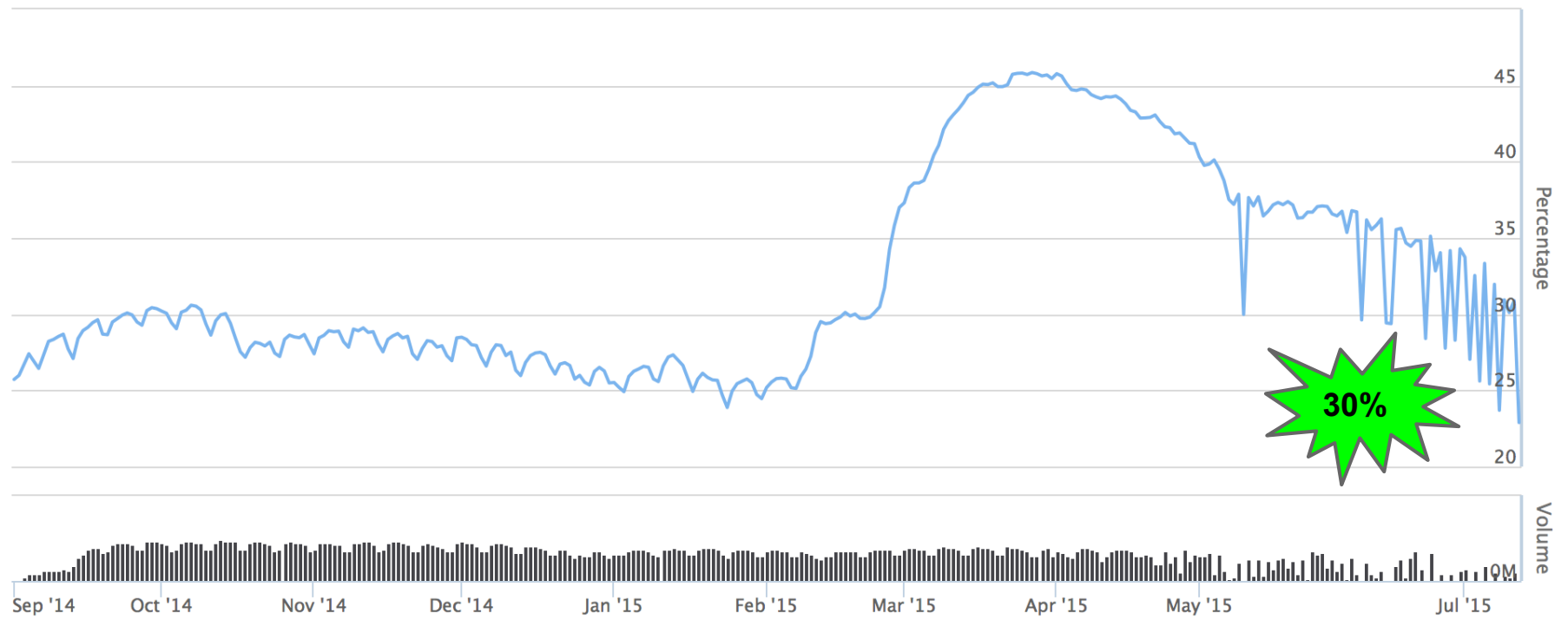


Where did the RC4 go?

Time series for SSL_SYMMETRIC_CIPHER_FULL, bin(s) 7 (in %)

Zoom 1m 3m 6m YTD 1y All

From Sep 1, 2014 To Jul 12, 2015



How about key exchange?

RSA



ECDH

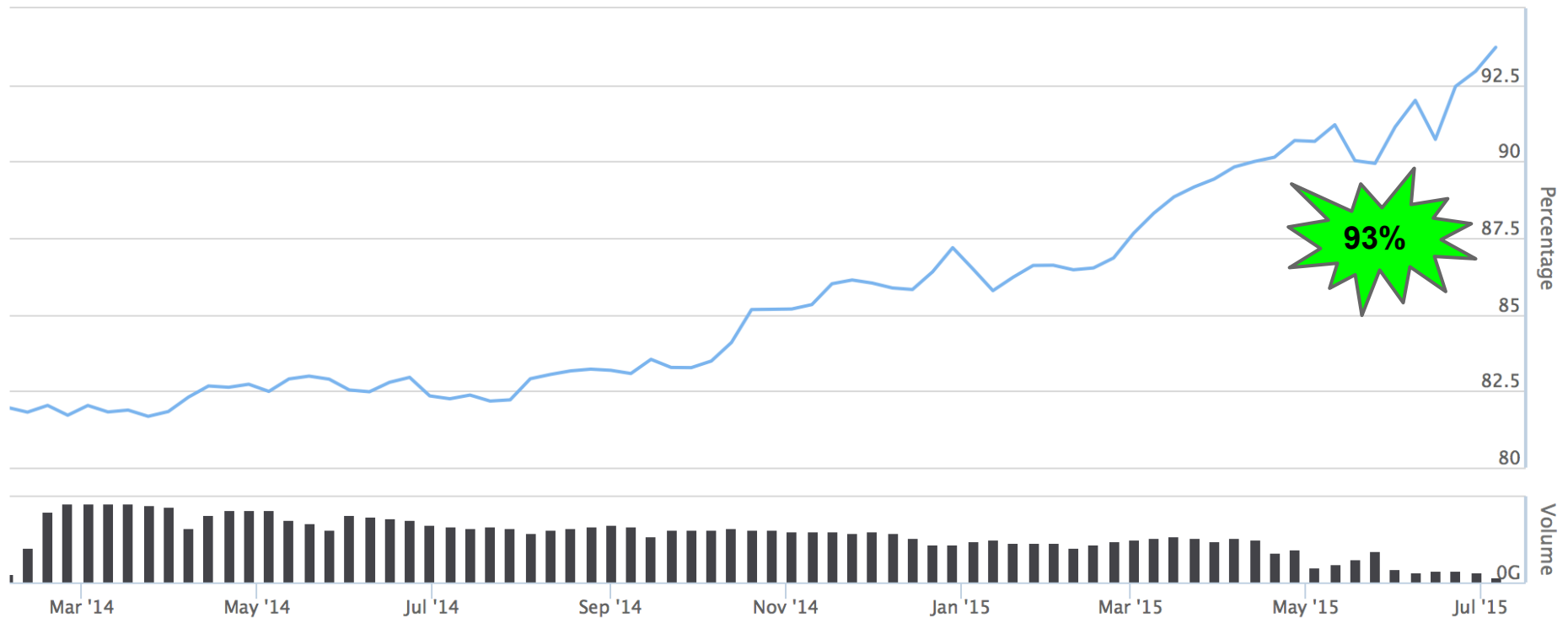


TLS 1.2 on the march!

Time series for SSL_HANDSHAKE_VERSION, bin(s) 3 (in %)

Zoom 1m 3m 6m YTD 1y All

From Feb 7, 2014 To Jul 12, 2015



Summary

Need to bend the curve on TLS adoption

Ciphers and versions moving in the right direction

[[All data sets shown in this preso are public. Ask me about how to use them!]]