# Data on Name Collisions

## or, "That'll buff out…"



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# Notes / Disclaimers

- I wrote this on the plane over here…

- Very initial / not very rigorous / needs more work

  - More of a "Whoa, there's something interesting to look at" than "Here's a result…"

# TL;DR - **Are** there collision?!

- Depends…
- If you think names get resolved for a reason…

  … and that those responses get used for something…

  … and failure of that will be noticed…
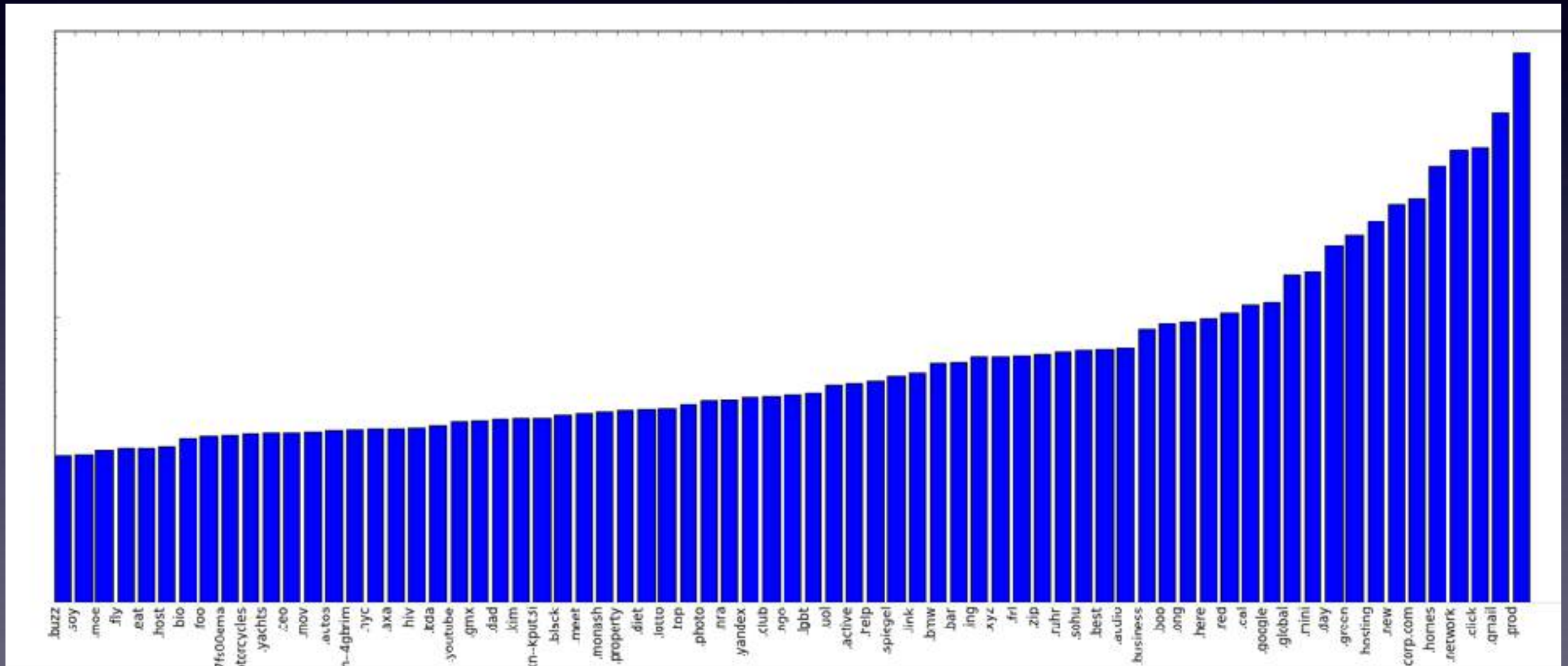
# Gratuitous lolcat

# 2 "Methodologies"

- Clients get `your-dns-needs-immediate-attention.foo`
- They will then go resolve that
- Can graph this!




- Only for MX and SRV
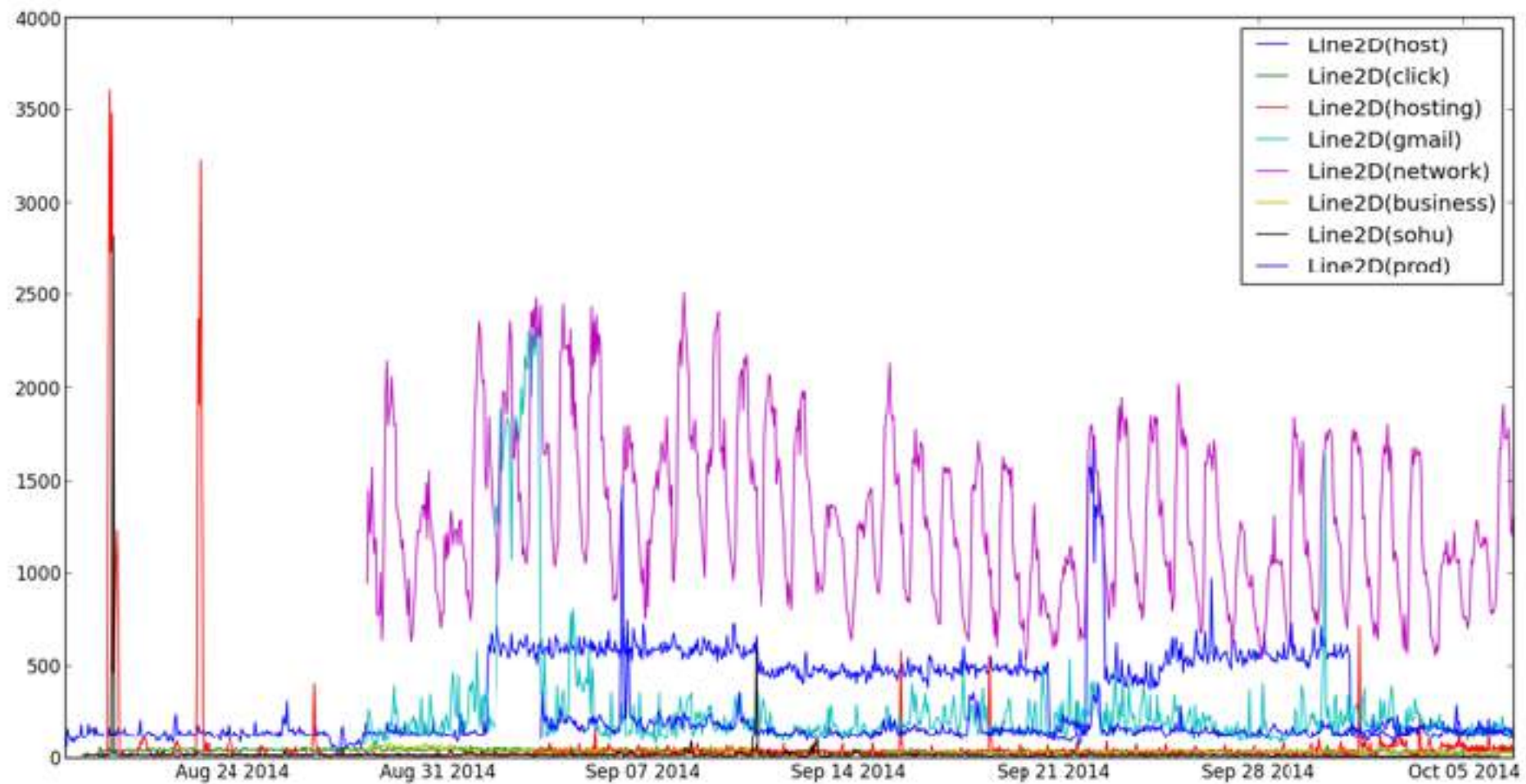  - ICANN decided not to make a CNAME :-(

# Graph

`your-dns-needs-imediate-attention.$TLD`



your-dns-needs-immediate-attention-mail-dns-jasadvisors-com.corp.com.
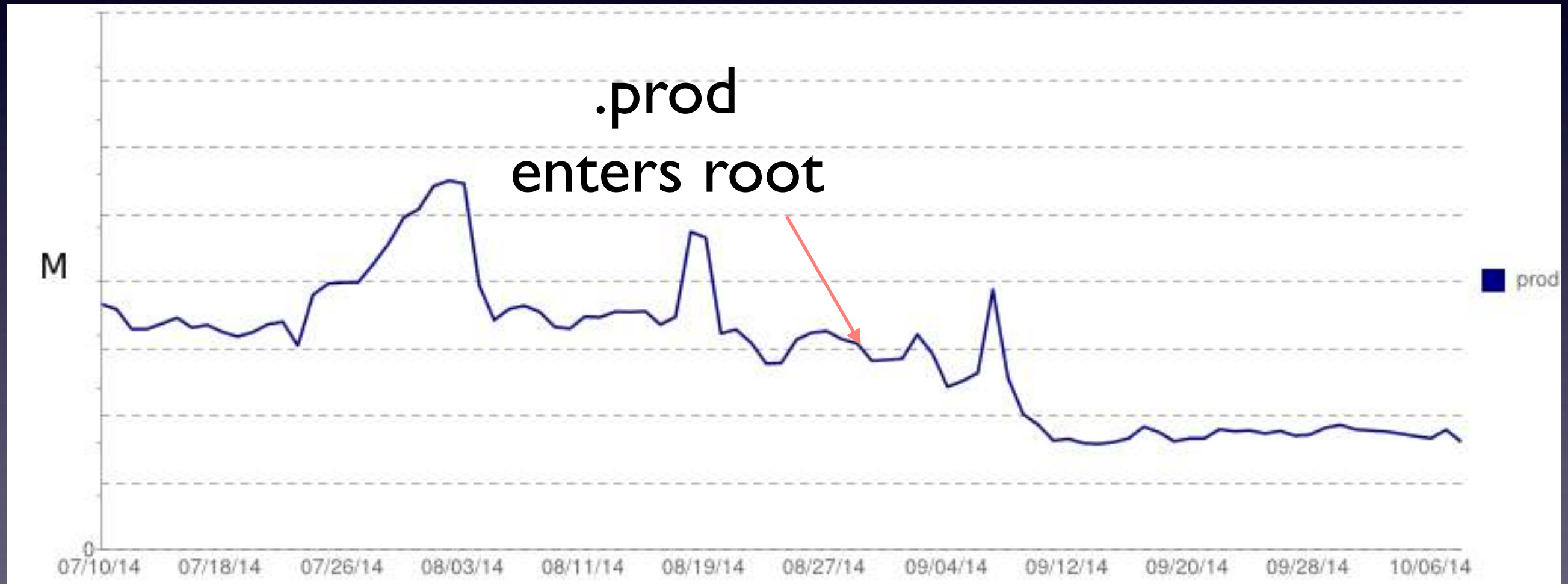Hi Jeff & Mikey!

# Graph



Great, clear as mud; problem solved…

# Other "methodology"

1. Machines look up names for a reason
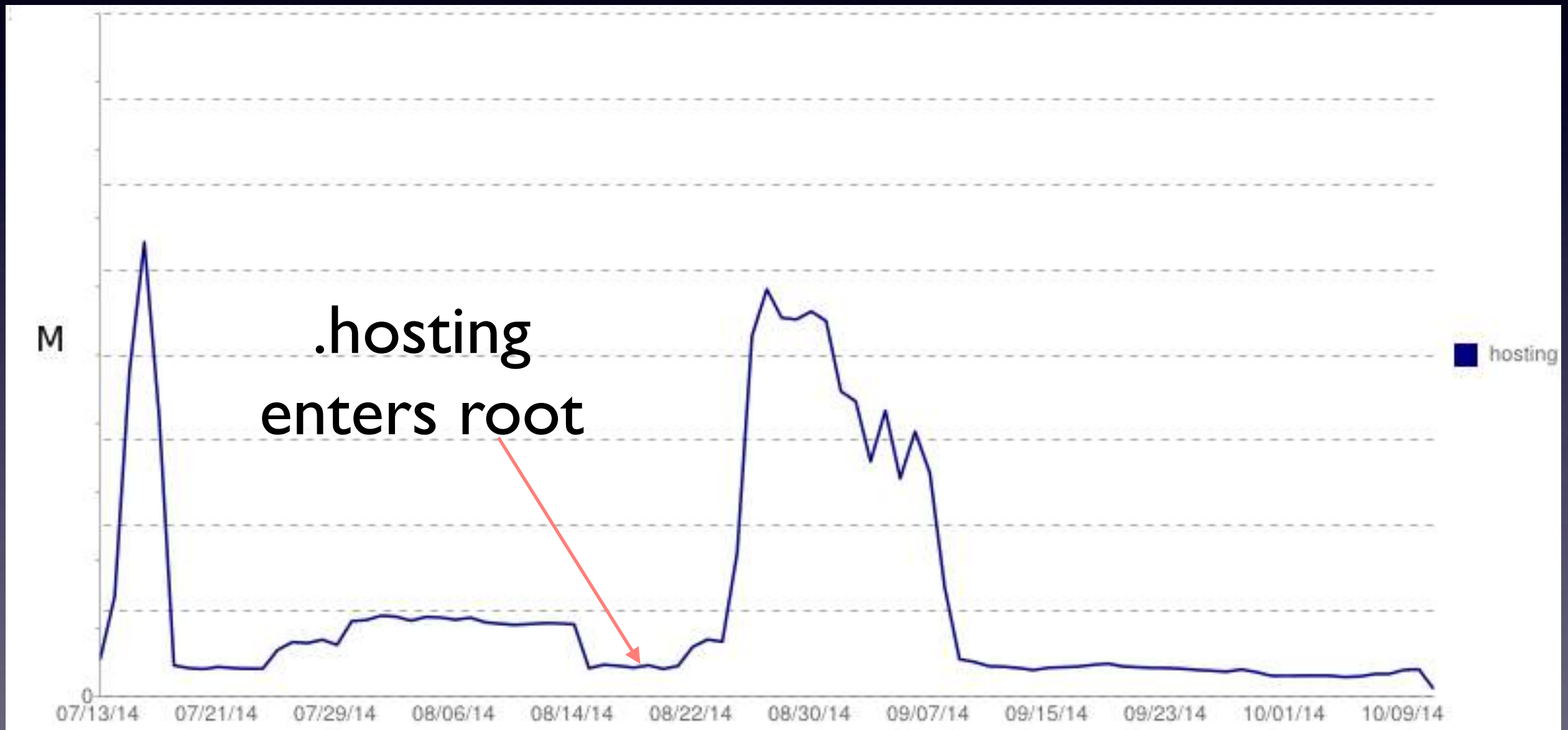2. … and the admin will see 127.0.53.53 in their logs…



3. Well the 127.0.53.53 should break *something*
4. … and then they'll notice and fix it…
5. … and so the rate of queries will drop.

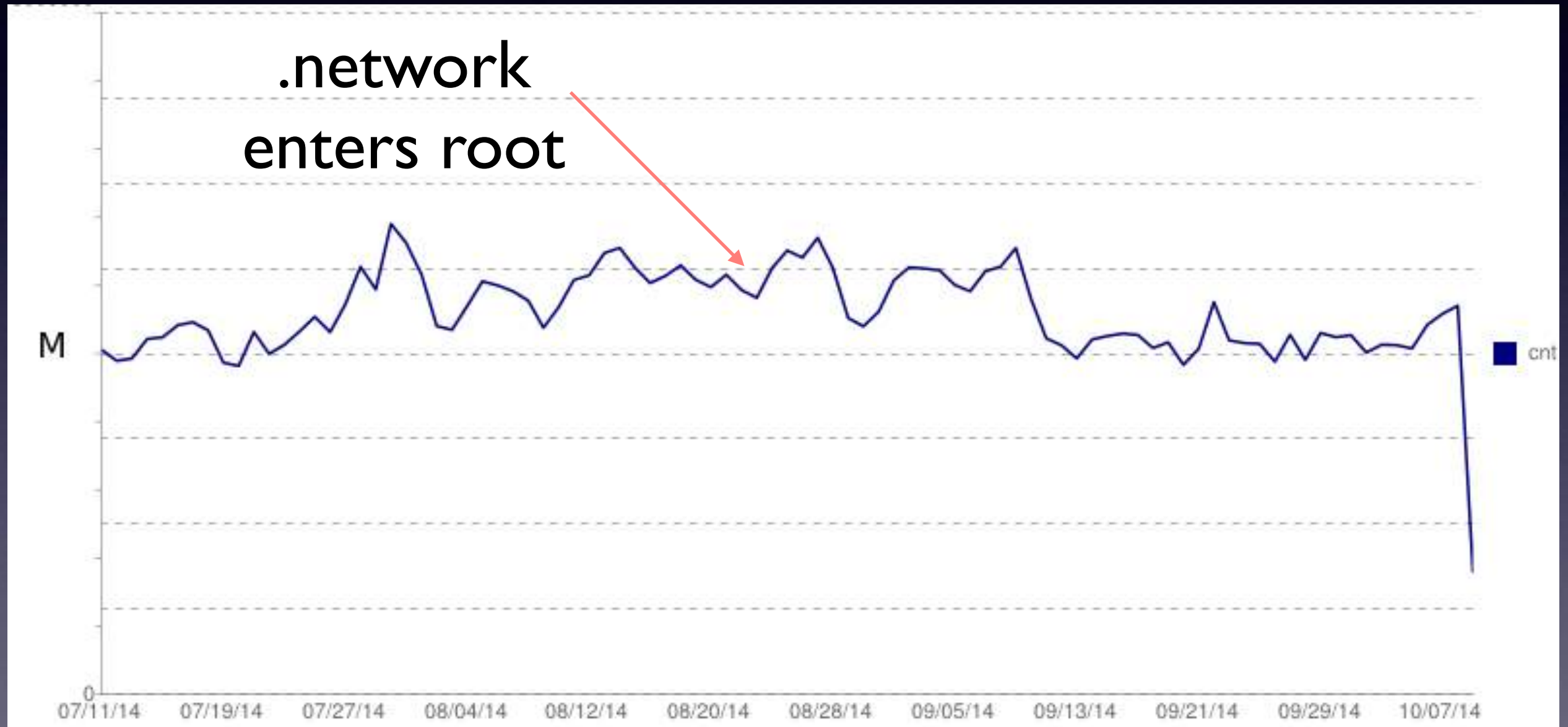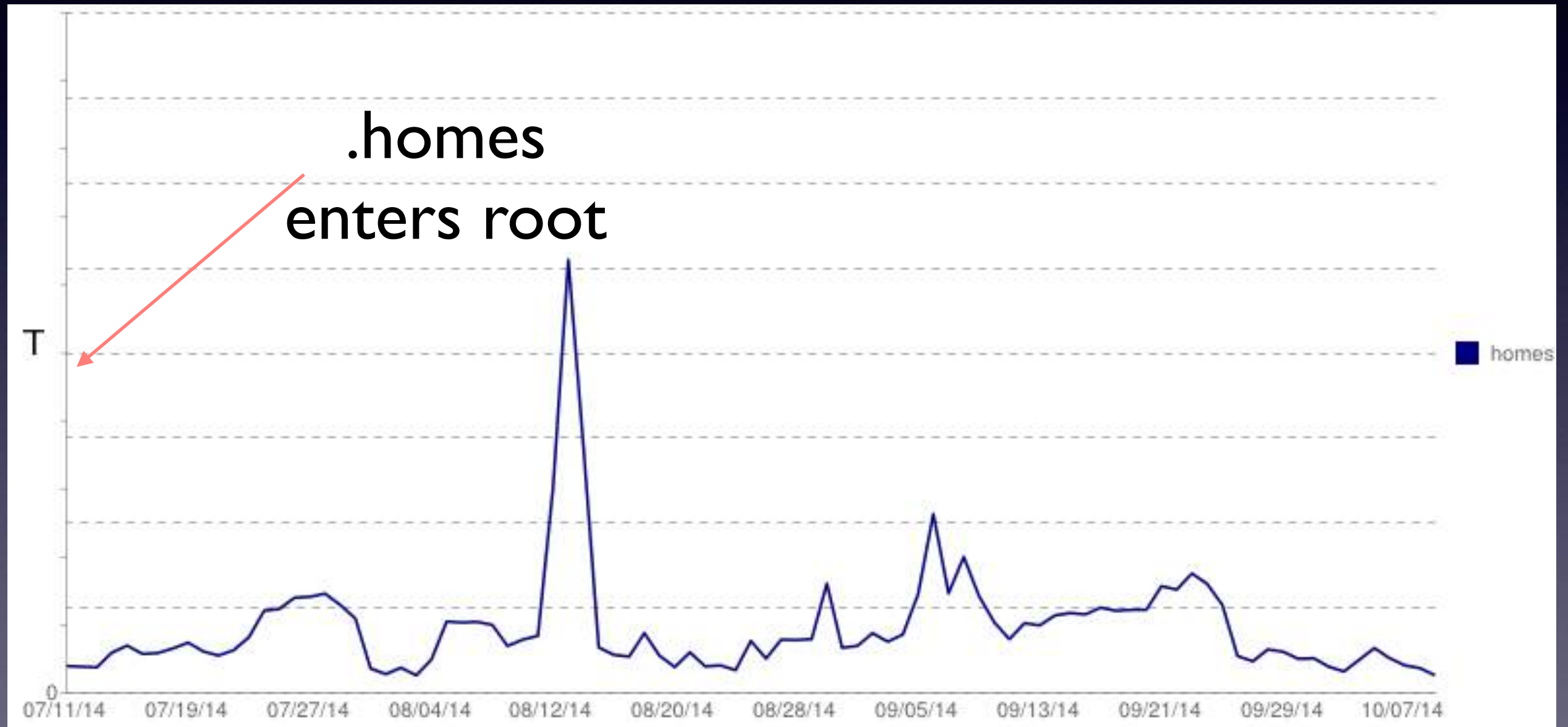# Do we see this?



.prod
enters root

# Do we see this?



.hosting
enters root

# Do we see this?



.network
enters root

# Do we see this?



.homes
enters root

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# So, what does this all mean?

Not a clue…

…but I'll make some guesses / make things up!

A. Controlled interruption isn't interrupting…

B. Collisions are not a problem…

C. Clients do actually look up names for fun…
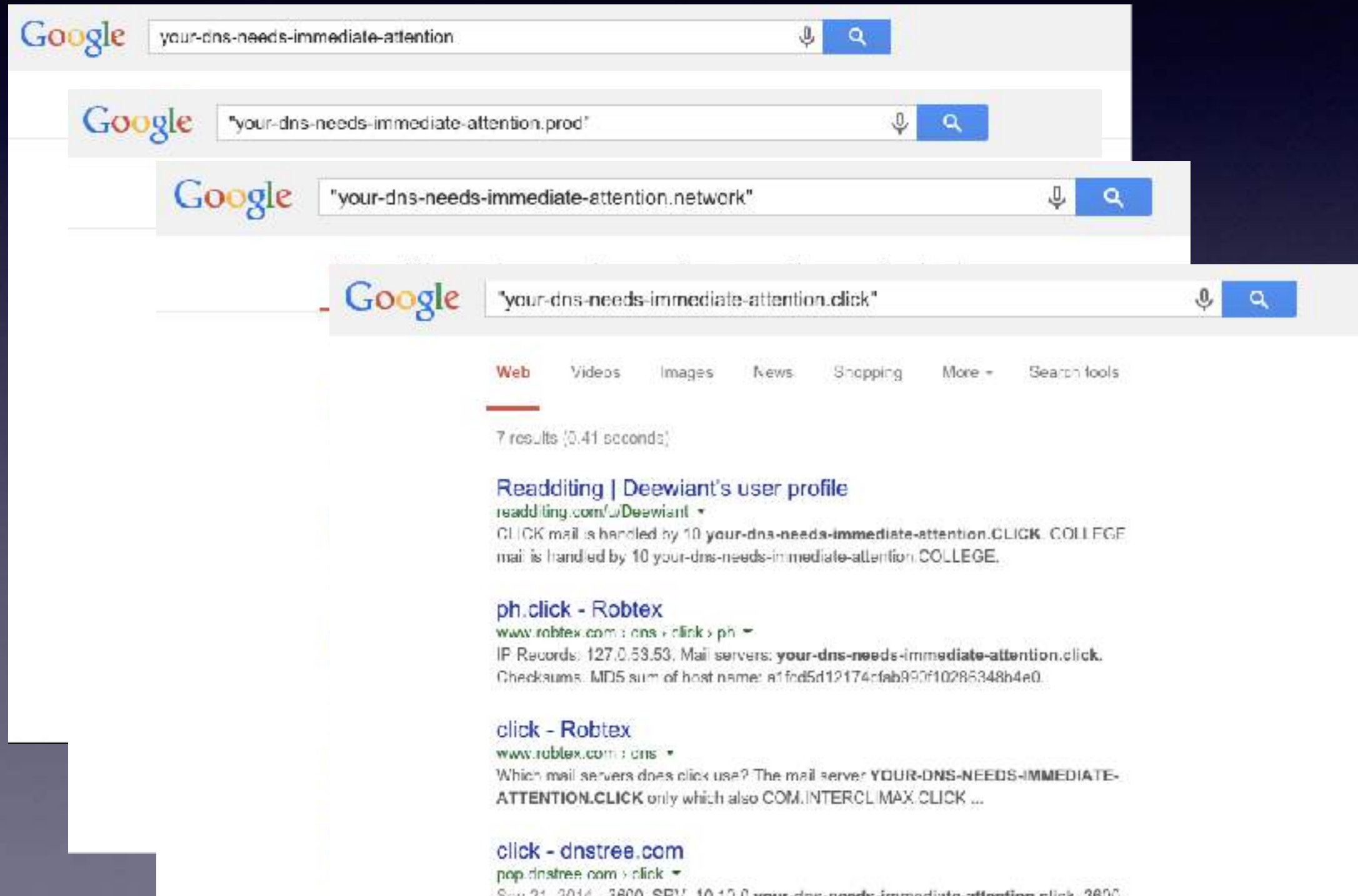
D. A and B and C

E. Something else…

# Bonus methodology

- CI returns 127.0.53.53
  - some portion of clients will try resolve that - PTR for 53.53.0.127.in-addr.arpa.
    - we can see that and graph it.
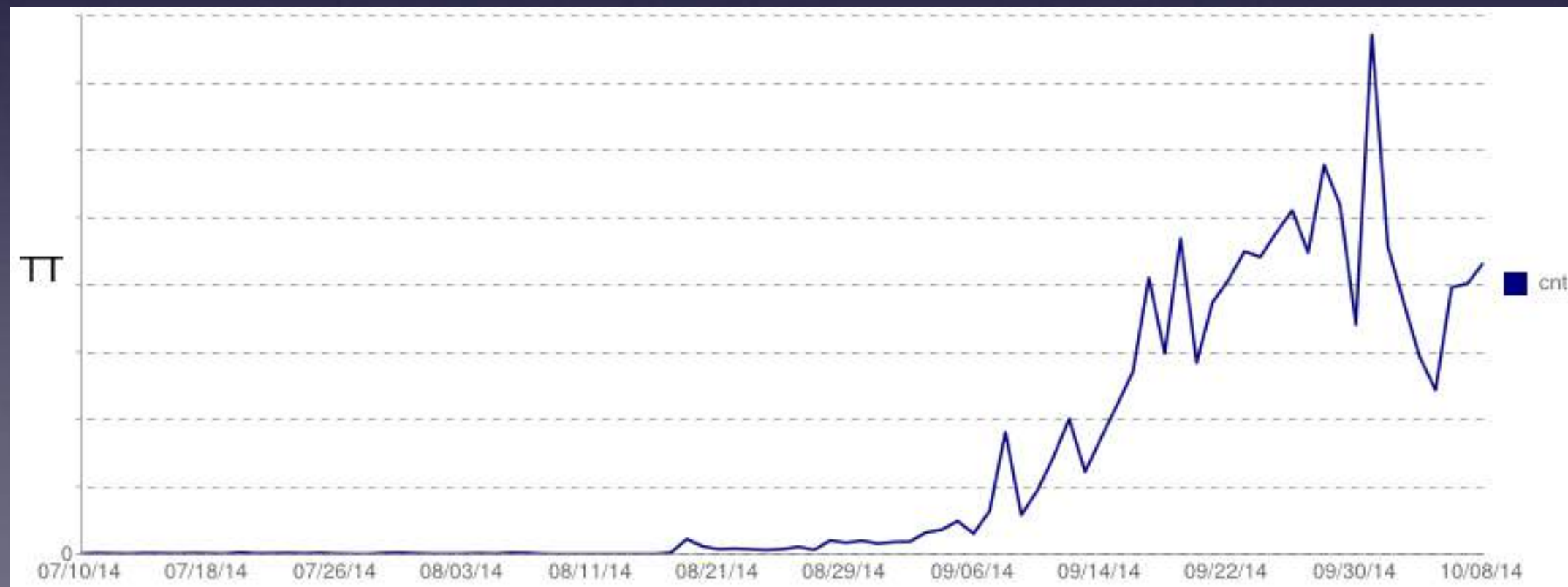
# Pseudo-science

- People will try look this thingie up…

# Questions?

I sure have a lot…
hopefully you do too…