

Reboot the DNS

(Or: “Reboots – Not Just for J.J. Abrams”)

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A DNS Manifesto

<https://github.com/shane-kerr/DNSManifesto>

- Laundry-list of good & bad things with DNS
- Call to action
 - EVOLVE the protocol, not replace it

Call to Action

- DNS gets a lot of stuff right, lets keep that
- DNS is imperfect, lets improve that
- DNS is very hard to change

Thesis: The difficult of changing the DNS protocol makes all other problems much more difficult. Addressing that is the best long-term investment DNS people can make.

How to Move Forward?

- Who? Operators? Vendors? Academia?
 - Where? RIPE? IETF? DNS OARC? New list?
 - What? Protocols? Prototypes? Labs?
 - When? Now?
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- Strawman: Maybe a flag like the DO bit to signal support, combined with something like DS/NS that contains information, plus a new packet format and DHCP-style capabilities negotiation? Or whatever.