

# draft-ietf-v6ops-happy-eyeballs

Trending towards success for better  
user experience

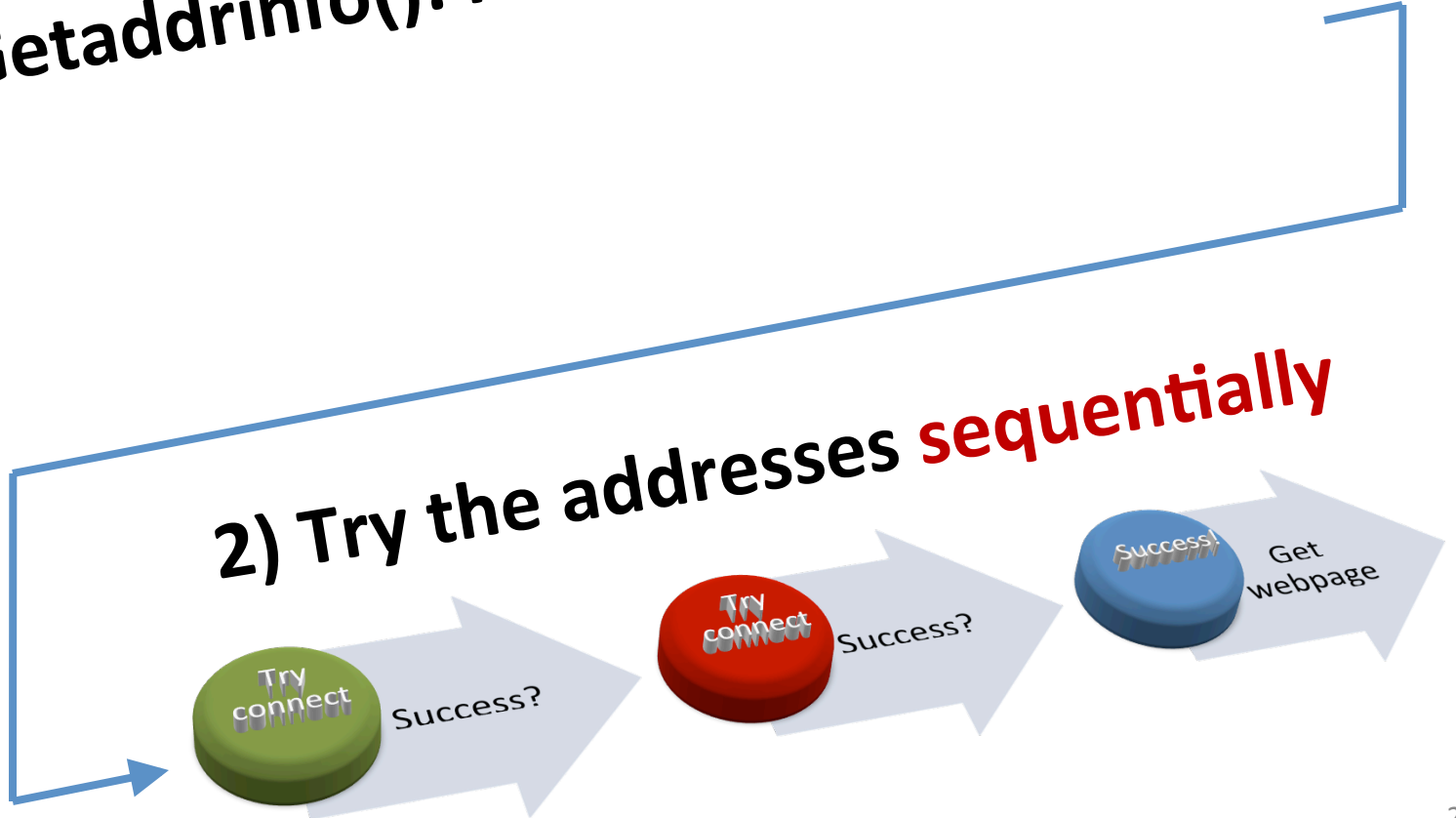
IETF80, Prague

Andrew Yourtchenko, Dan Wing

# What's the problem ?

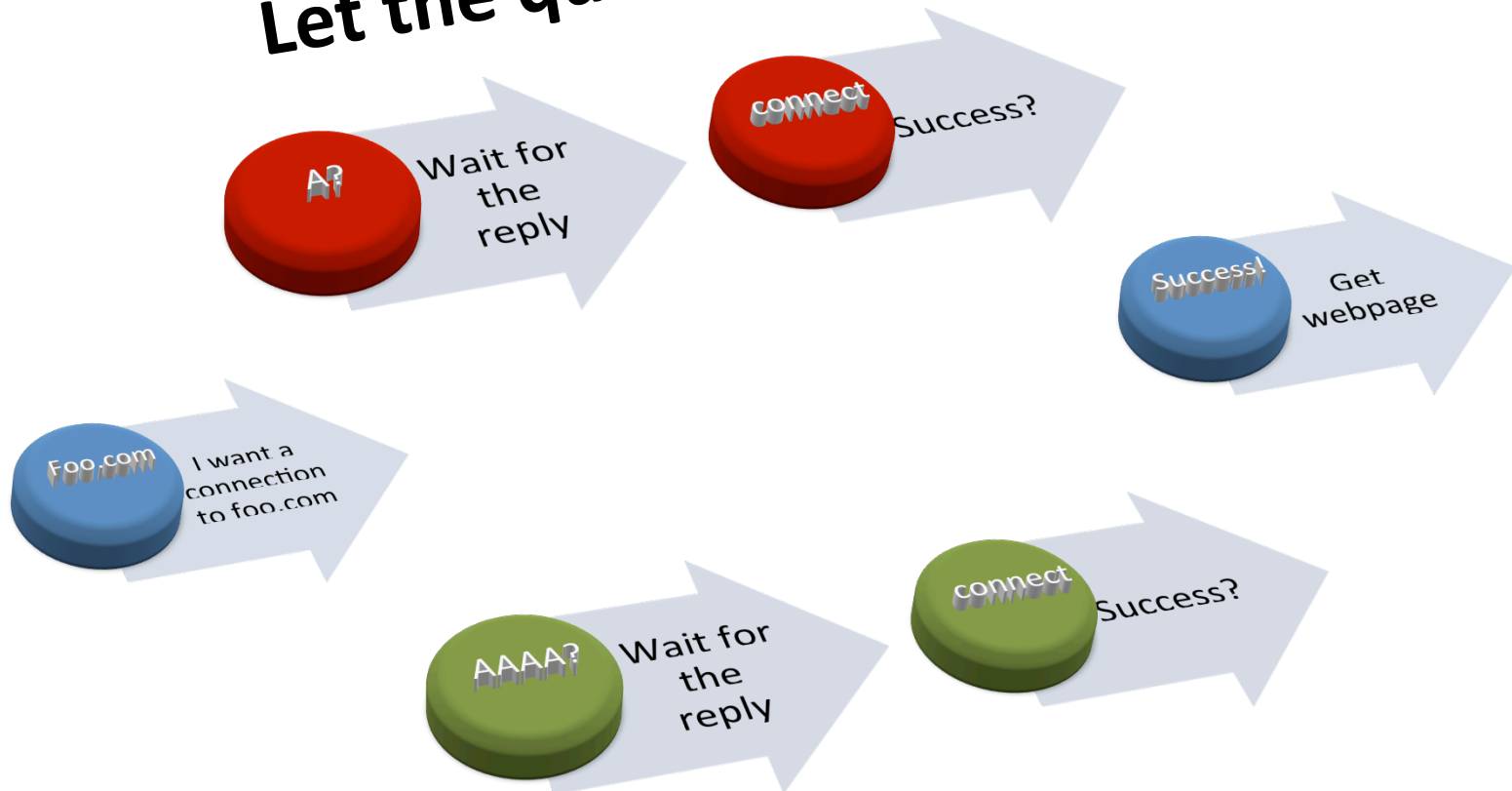
1) Getaddrinfo(): hostname => address **list**

2) Try the addresses **sequentially**



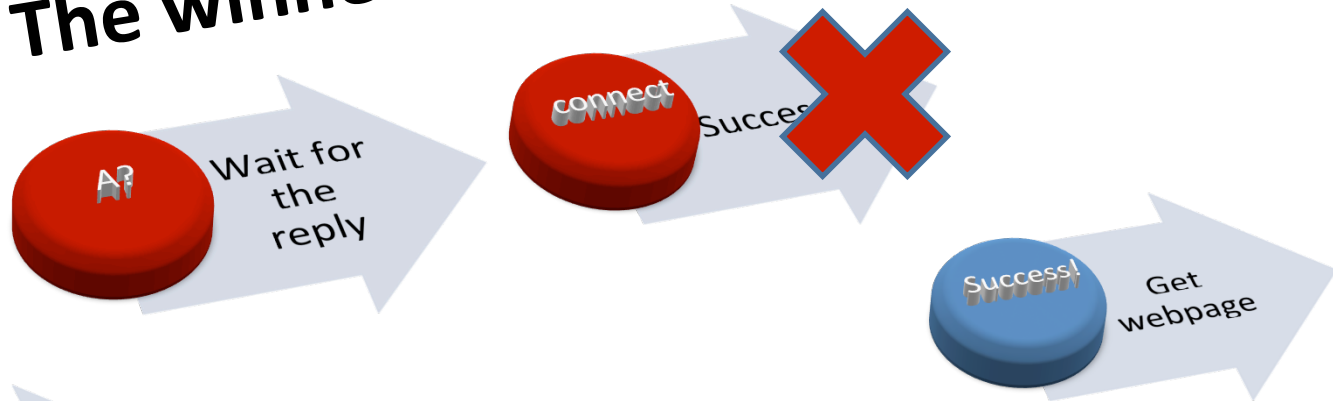
# What to do about it ?

**Let the quickest win**



# Too many requests ?

**The winner takes it all**



**Delay the slow one**



**Demote on failure**

# Changes (up to -01)

- Became WG doc (-00)
- Incorporated comments – thank you!  
Scott Brim, Rick Jones, Stig Venaas, Erik Kline, Bjoern Zeeb, Matt Miller, Simon Perreault, Javier Ubillos
- +: SRV records
- + ref: draft-chen-mif-happy-eyeballs-extension
- + ref: implementations
- +: debug strawman ('help me with my IPv6')

# TODO

- More than one type of addresses (RFC3484)
  - Selection or retry.
- Need more implementation testing experience
- “Hysteresis” problem
  - Delay the conn attempts, not name resolution -> do nothing for single-stack hosts
  - Prefer IPv6: Decay the P value towards 0 (# conns?)
- Need pluggable ‘name-based connect’ API
  - Write separate draft. Where ?

# Reserved for your comments