Test Environment

- Cable Modem filtering IPv4, directly connected to the host under test
- Host receives IPv6 prefix and IPv6 DNS via DHCPv6
  - Windows (7/8) – Works
  - Mac OS (10.7+) – Works
  - Ubuntu (13.04) – Works
- Not tested – WiFi connected devices behind a GW
  - Android – no DHCPv6 support
    - https://code.google.com/p/android/issues/detail?id=32621
    - filed in 2012, Medium priority enhancement, no owner
  - iOS
    - Sorta works
    - Some testing details available from Andrew Yourtchenko's RIPE66 talk
    - https://ripe66.ripe.net/archives/video/1196/

How Committed is Your company to IPv6?


```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.  All rights reserved.

C:\Users\E158182>ipconfig

Windows IP Configuration


Ethernet adapter Bluetooth Network Connection:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Ethernet adapter Local Area Connection:

   Connection-specific DNS Suffix  . : corp.twcable.com
   IPv6 Address. . . . . . . . . . . : 2001:1998:601:2003:6820:a8ab:83e1:45ce
   Link-local IPv6 Address . . . . . : fe80::cc65:197d:6171:277e%11
   Autoconfiguration IPv4 Address. . : 169.254.39.126
   Subnet Mask . . . . . . . . . . . : 255.255.0.0
   Default Gateway . . . . . . . . . : fe80::212:d9ff:fe54:11e3%11

Wireless LAN adapter Wireless Network Connection:

   Media State . . . . . . . . . . . : Media disconnected
```

Let's turn off IPv4 and find out…

It just works!

... mostly

The server at **ad.doubleclick.net** can't be found,

Except... when it doesn't

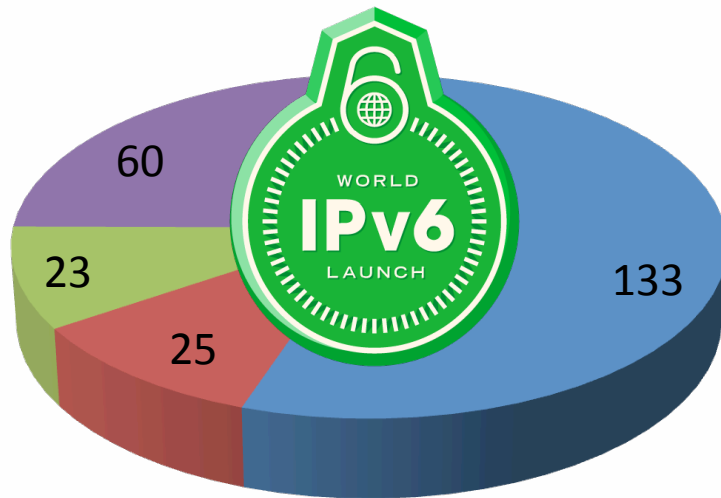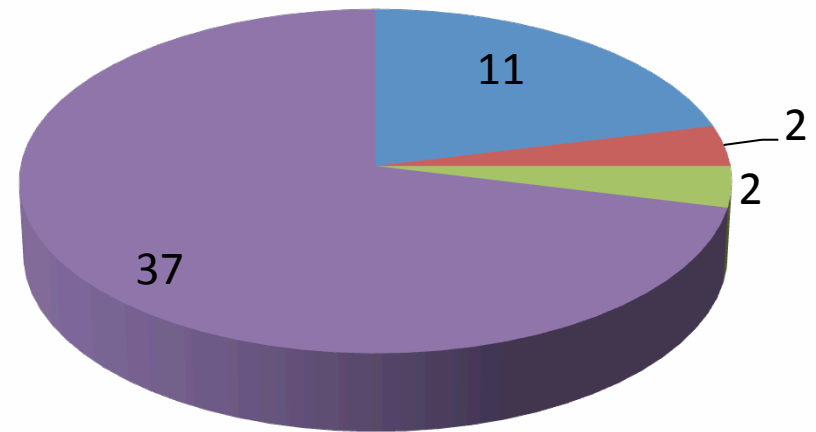# Test results – Do webpages work over IPv6-only?

World IPv6 Launch Participants
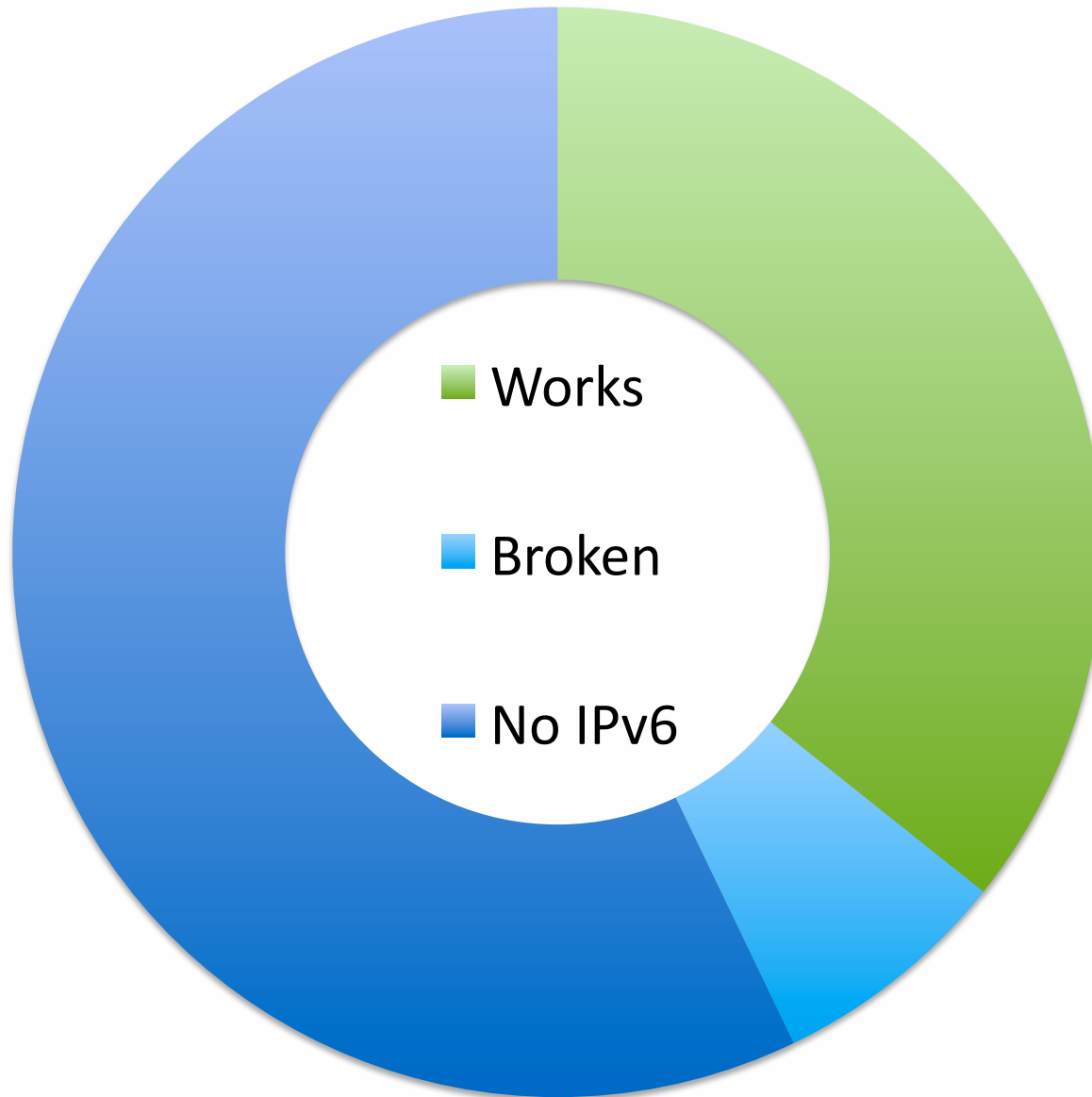(random sample, mainly US/CA)

Other sites

Yes Mostly Sorta No

A little experiment with our favorite sponsors

APNIC Sponsors' Web Sites supporting IPv6
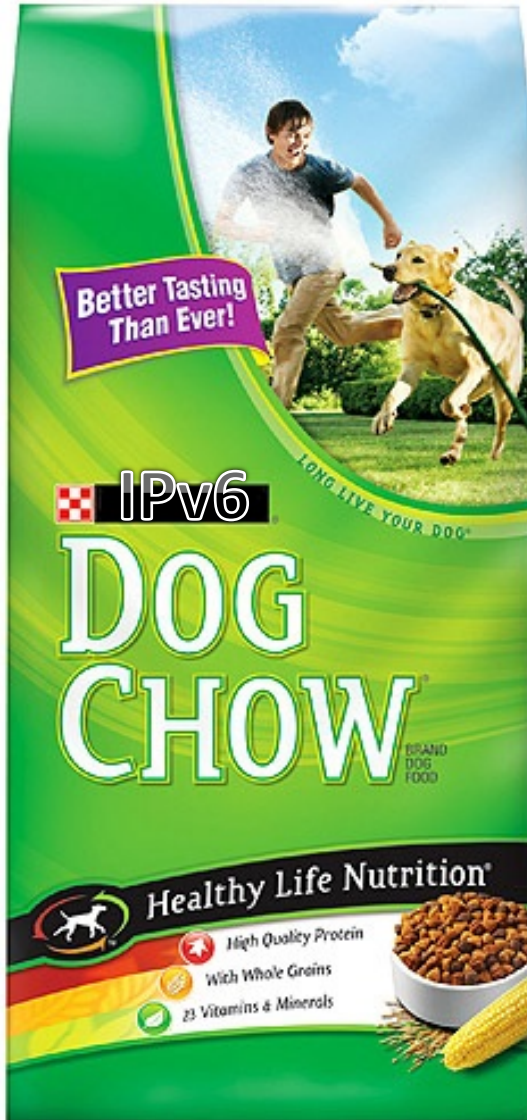

- Works
- Broken
- No IPv6

So what?

- If you have IPv6
  - Monitor with IPv6-only
    - Dual-stack/happy eyeballs hides problems
  - Monitor the same as IPv4
    - Can't fix what you don't know is broken
    - An Ipv6 outage has the same urgency as IPv4
- New Wiki to track IPv6-only/NAT64 issues:
  - http://wiki.test-ipv6.com/
  - Need more people testing and contributing

- If you don't have IPv6. . .

⚠ **CAUTION**

Legacy IP Only

This product does not support the current generation of the Internet Protocol, IPv6.

How committed is your company to IPv6?

"IPv6 is important..."

"We're committed to IPv6..."

"We are your IPv6 partner..."

. . . Eat your own d06:f00d

Time to make that commitment publicly visible

Discussion