

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!



The image shows a screenshot of a web browser displaying the APNIC homepage. The browser's address bar shows 'www.apnic.net'. The page features a navigation menu with 'Home', 'Services', 'Community', 'Events', 'Publications', 'About us', and 'Login to MyAPNIC'. A large banner for 'APNIC History' is visible, with '1993 20 2013' and the URL 'www.apnic.net/history'. A large green 'W' watermark is overlaid on the page. On the right side, there is a 'Whois search' section and a 'Latest News' section with a headline: 'Hear about the latest in robust networking trends at APNIC 36'. The footer of the page includes 'Transferring data from www.apnic.net...'. The browser's status bar at the bottom shows 'Transferring data from www.apnic.net...'. The browser's address bar shows 'www.apnic.net'. The browser's title bar shows 'APNIC - Home'. The browser's search bar shows 'Google'. The browser's navigation buttons (back, forward, home) are visible. The browser's window title bar shows 'APNIC - Home'. The browser's window control buttons (minimize, maximize, close) are visible.

... mostly



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

This webpage is not available

The server at **ad.doubleclick.net** can't be found, because the DNS lookup failed. DNS is the network service that translates a website's name to its Internet address. This error is most often caused by having no connection to the Internet or a misconfigured network. It can also be caused by an unresponsive DNS server or a firewall preventing Google Chrome from accessing the network.

Here are some suggestions:

- [Reload](#) this webpage later.
- Check your Internet connection. Restart any router, modem, or other network devices you may be using.
- Check your DNS settings. Contact your network administrator if you're not sure what this means.
- Try disabling network prediction by following these steps: Go to **the Chrome menu > Settings > Show advanced settings...** and deselect "Predict network actions to improve page load performance." If this does not resolve the issue, we

Popular on YouTube

- Music
- Sports
- Gaming
- Movies
- TV Shows
- News
- Comedy Week Spotlight

CHANNELS FOR YOU

We're the Millers - Official Trailer [HD]
by WarnerBrosPictures

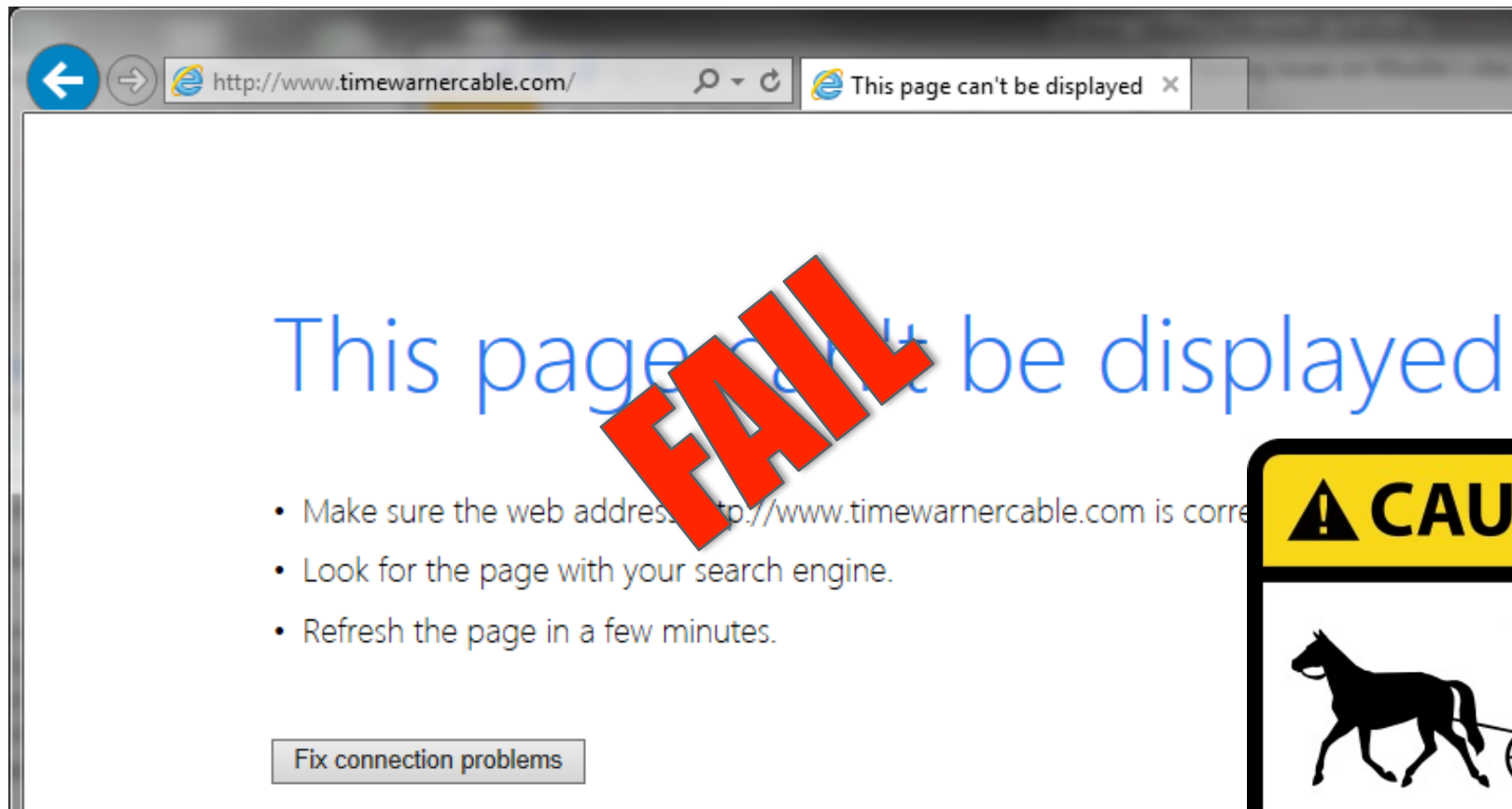
Hot Trailer: Jennifer Aniston And Jason Sudeikis' 'We're The Millers'

The Lonely Island - SEMICOLON (f...
by thelonelyisland
New track from the Lonely Island features Solange Knowles, semicolons
Salon.com

Windows 8: Less talking, more doi...
by WindowsVideos
Microsoft recruits Siri to bad-mouth the iPad in new Windows 8 tablet ad
The Verge - All Posts

Wait for it...
by John Adamson
Spinning Chocolate Joy
reddit: the front page of the internet

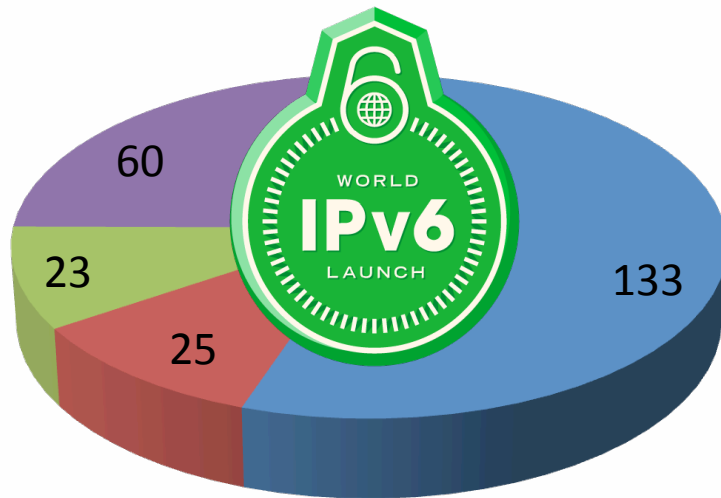
Except... when it doesn't



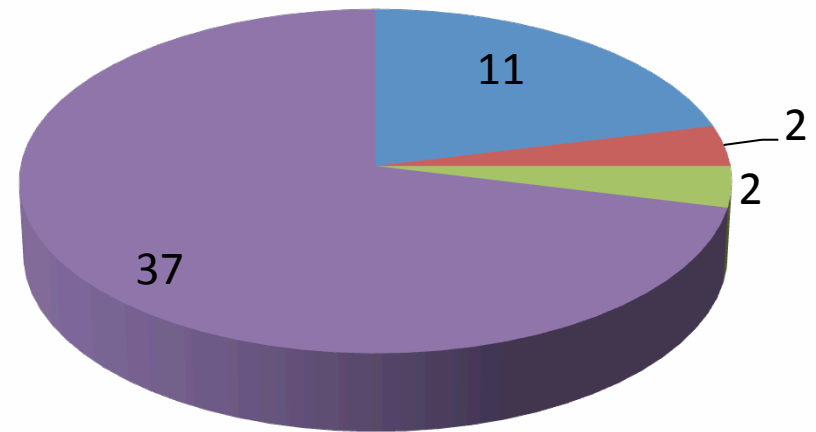
Test results – Do webpages work over IPv6-only?



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



Other sites



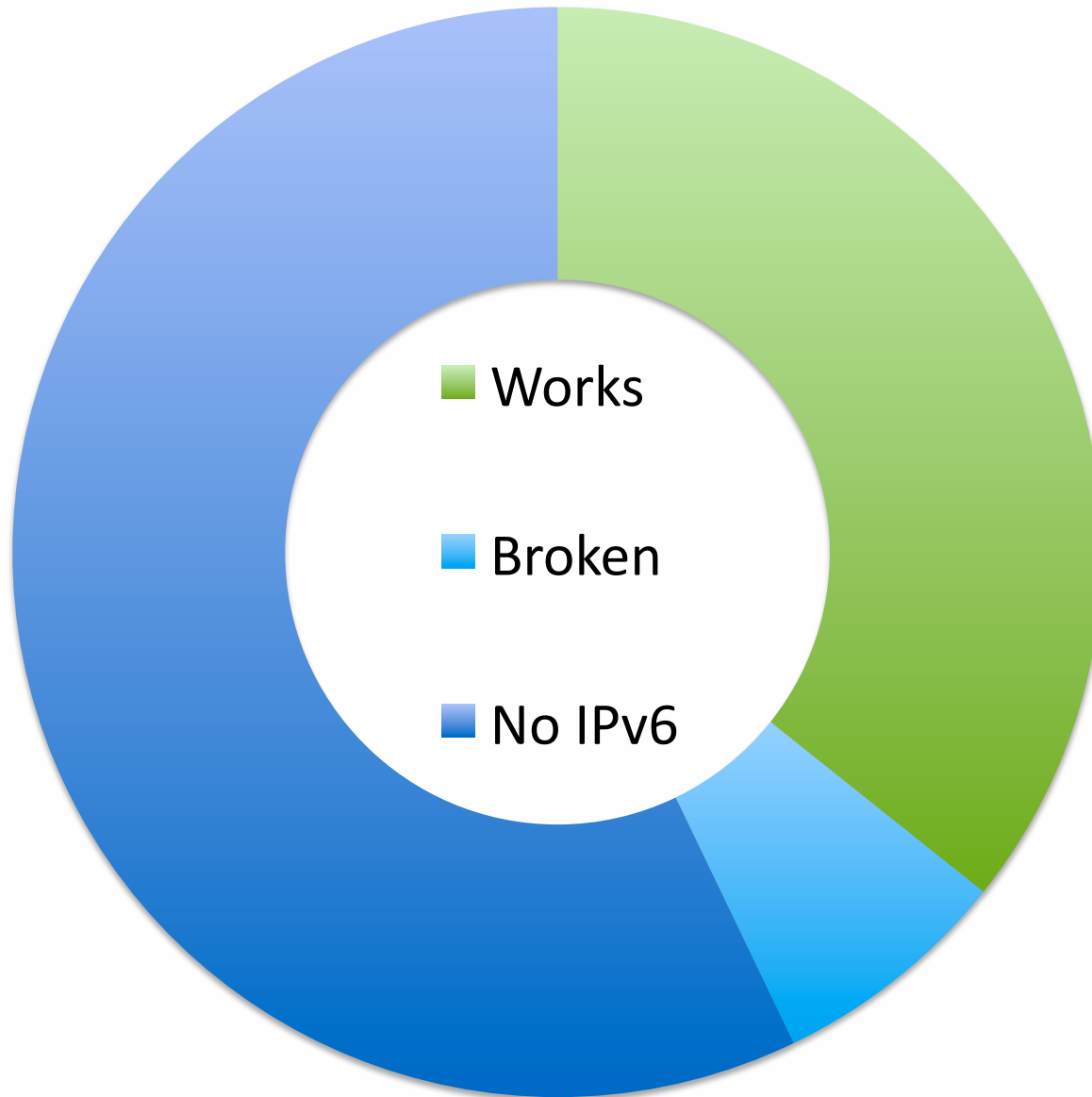
■ Yes ■ Mostly ■ Sorta ■ No



A little experiment with our favorite sponsors



APNIC Sponsors' Web Sites supporting IPv6



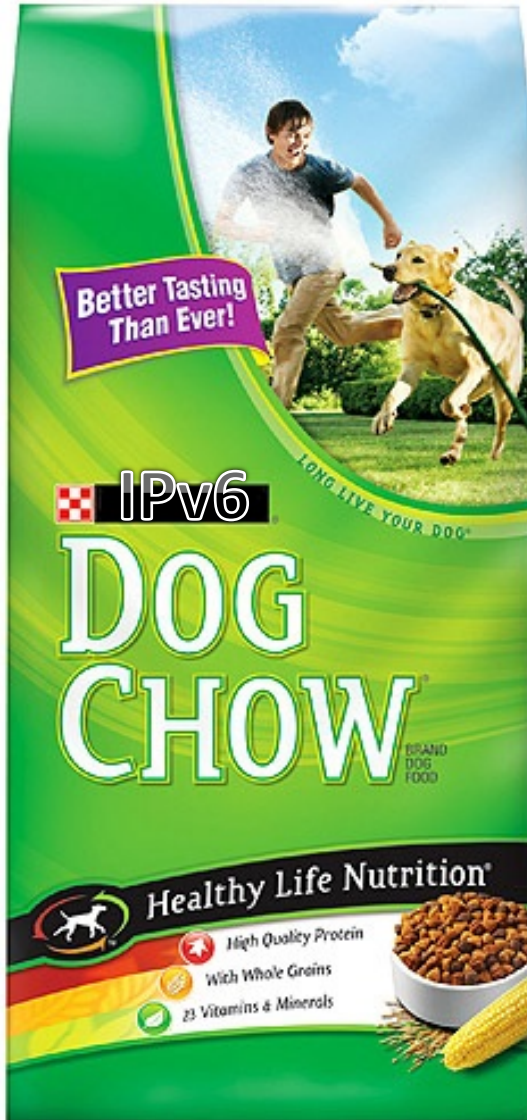
So what?



- 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. . .



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