IPv6-only?
You’re kidding, right?

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Test Environment/OS Notes

• 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 – Wi-Fi connected devices behind a GW is next phase of testing
• Android – no DHCPv6 support
    • filed in 2012, Medium priority enhancement, no owner
• iOS – sorta works
  – Some testing details available from Andrew Yourtchenko’s RIPE66 talk
    • here: [https://ripe66.ripe.net/archives/video/1196/](https://ripe66.ripe.net/archives/video/1196/)
What happens when all you have is IPv6?

Let’s turn off IPv4 and find out...
It just works!
... for some values of “work”
Except... when it doesn’t
Test results – Do webpages work over IPv6-only?

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

Other sites

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<th>Category</th>
<th>Yes</th>
<th>Mostly</th>
<th>Sorta</th>
<th>No</th>
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<td>11</td>
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</tr>
</tbody>
</table>

Legend:
- Yes
- Mostly
- Sorta
- No
A little experiment with our favorite sponsors...
A little experiment with our favorite sponsors. . .
So what?

- Those with IPv6 websites and apps need to start testing them with IPv4 disabled
  - Dual-stack (especially with Happy Eyeballs) masks problems with your IPv6 connectivity
- Monitor your IPv6 site just like you monitor your IPv4 site
  - Can’t fix what you don’t know is broken
  - An IPv6 outage should have the same urgency and impact as an IPv4 outage
    - Again, single-stack IPv6 is better at exposing problems
- Those without IPv6 enabled on their websites...
How committed is your company to IPv6?

“IPv6 is important...”
“We’re committed to IPv6...”
“We are your IPv6 partner...”

Time to make that commitment publicly visible:
Turn on IPv6 on all of your external services