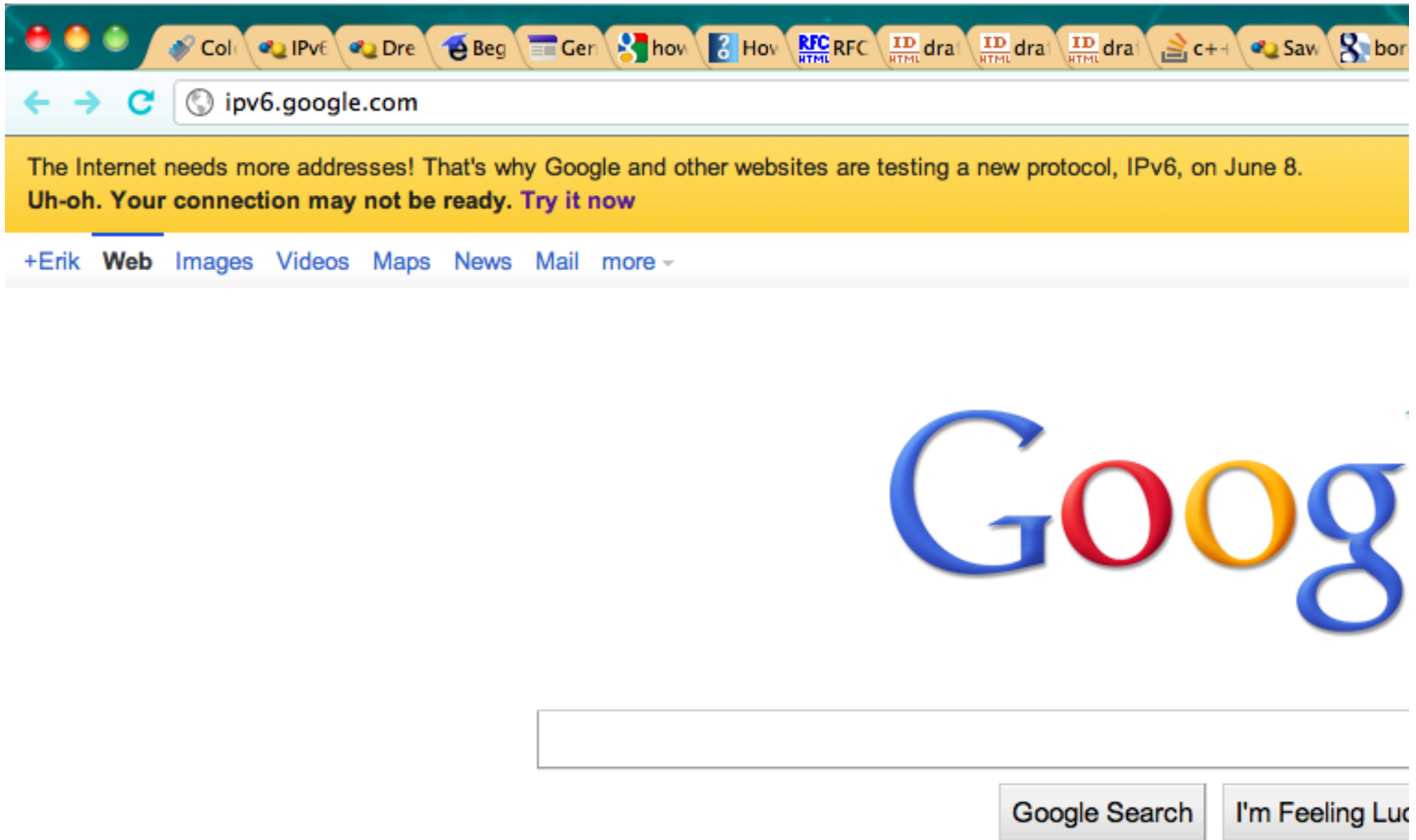
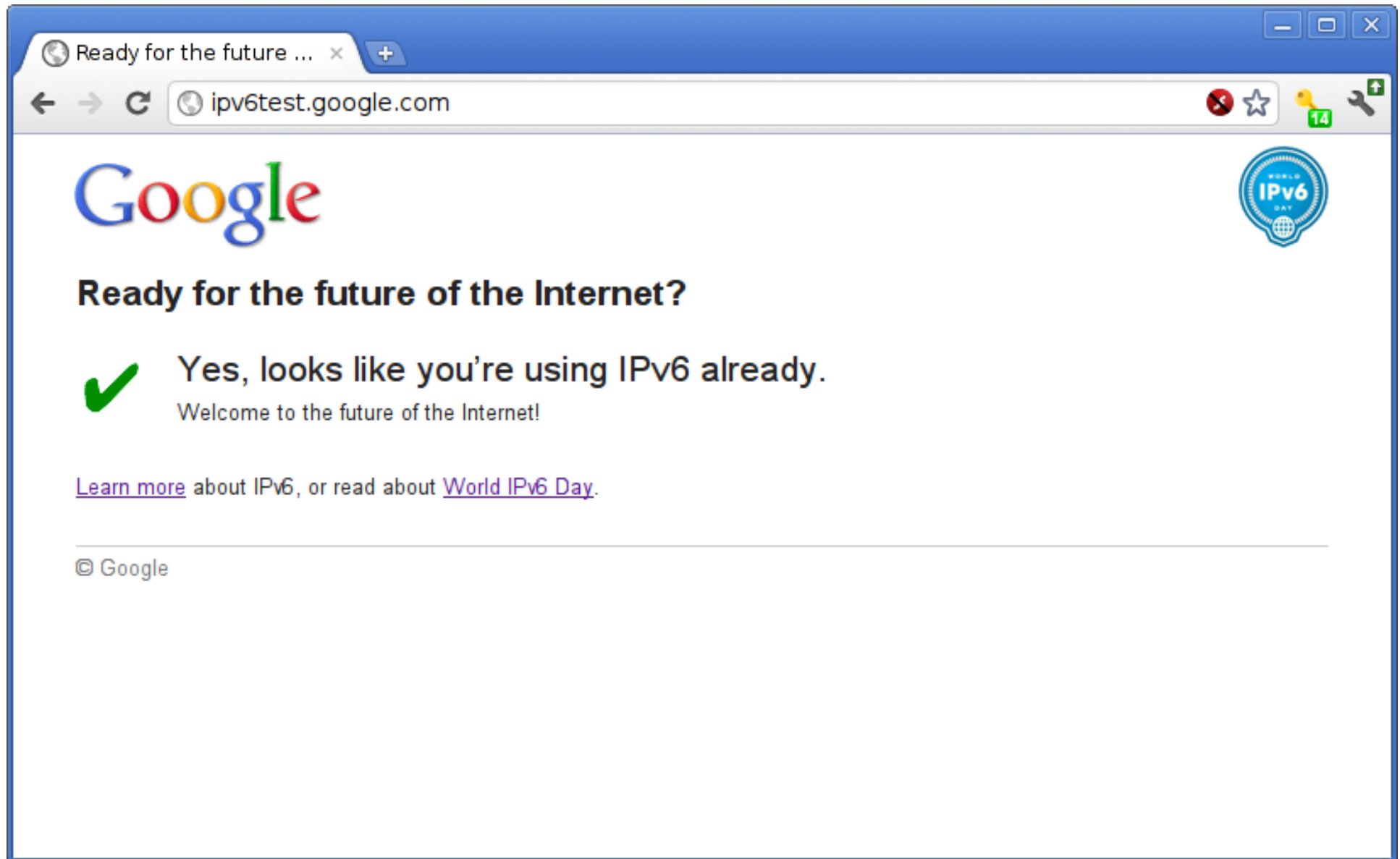


# Preparation: warning broken users




# Preparation: ipv6test.google.com




The screenshot shows a web browser window with the address bar displaying "Ready for the future ..." and "ipv6test.google.com". The page content includes the Google logo, a "World IPv6 Day" badge, and a message: "Ready for the future of the Internet? Yes, looks like you're using IPv6 already. Welcome to the future of the Internet!". A link to "Learn more about IPv6, or read about World IPv6 Day." is also present.

Ready for the future ... x +

← → ↻ [ipv6test.google.com](https://ipv6test.google.com) [Red X] [Star] [Key 14] [Wrench +]

**Google** 

**Ready for the future of the Internet?**

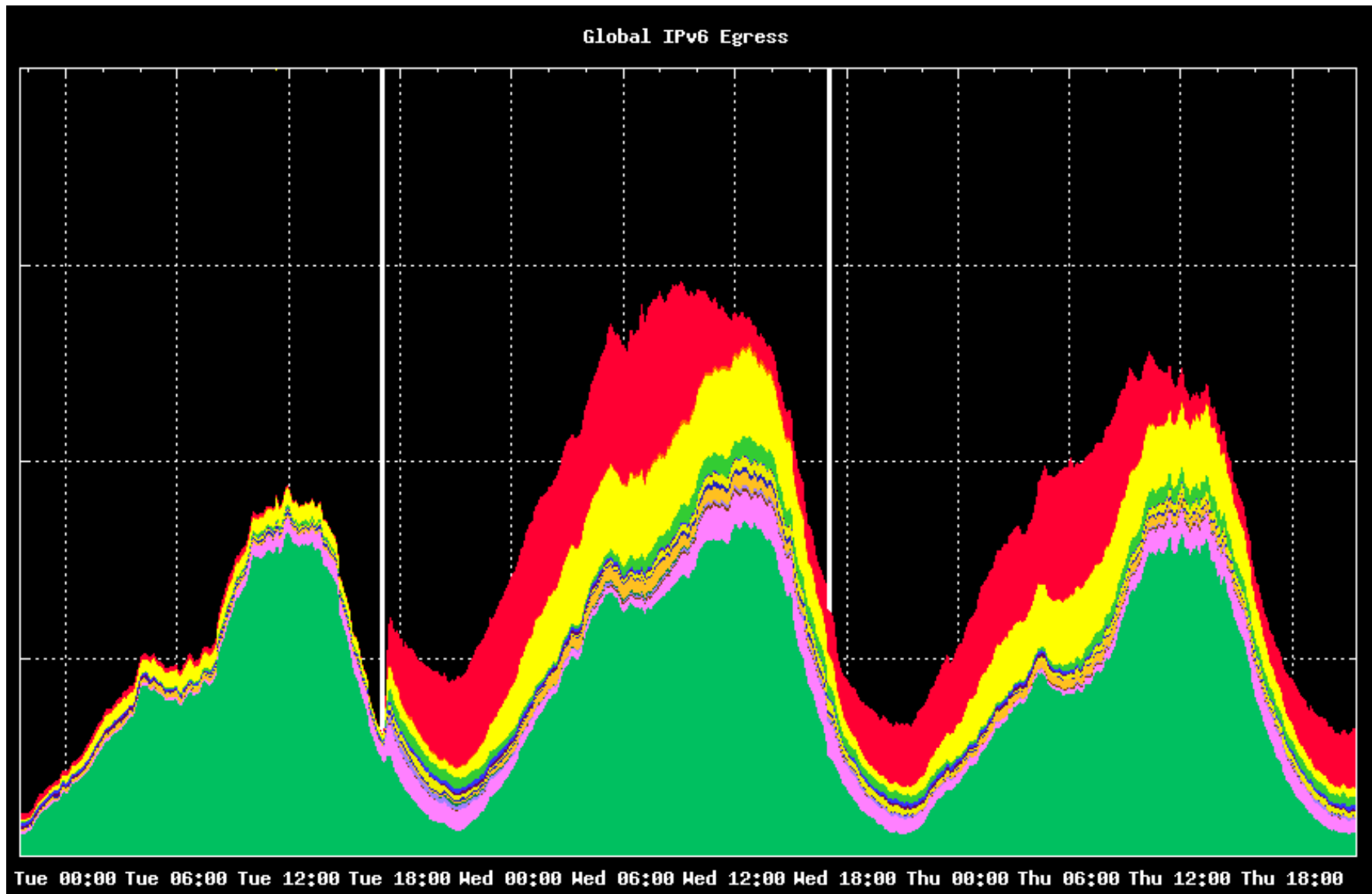
 **Yes, looks like you're using IPv6 already.**  
Welcome to the future of the Internet!

[Learn more](#) about IPv6, or read about [World IPv6 Day](#).

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© Google

# On the day: business as usual

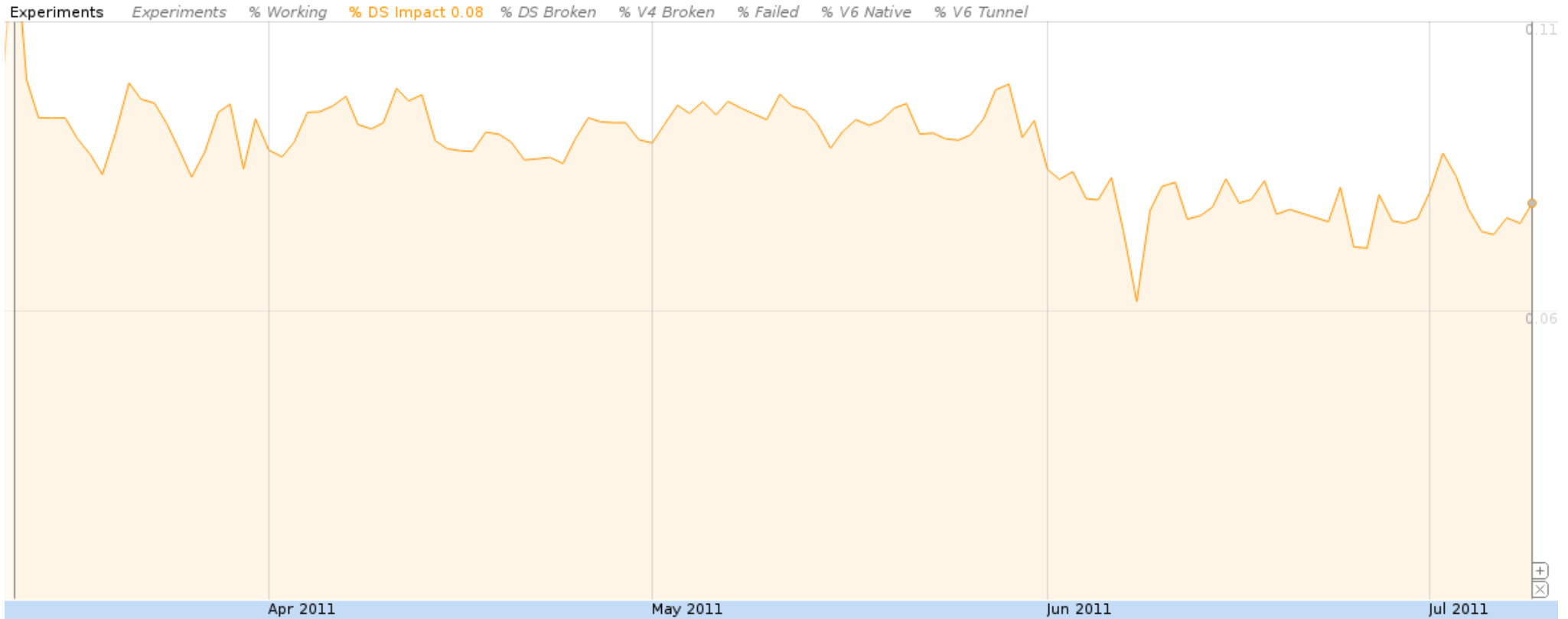


We were already serving 60% of the IPv6 Internet

# Technical progress

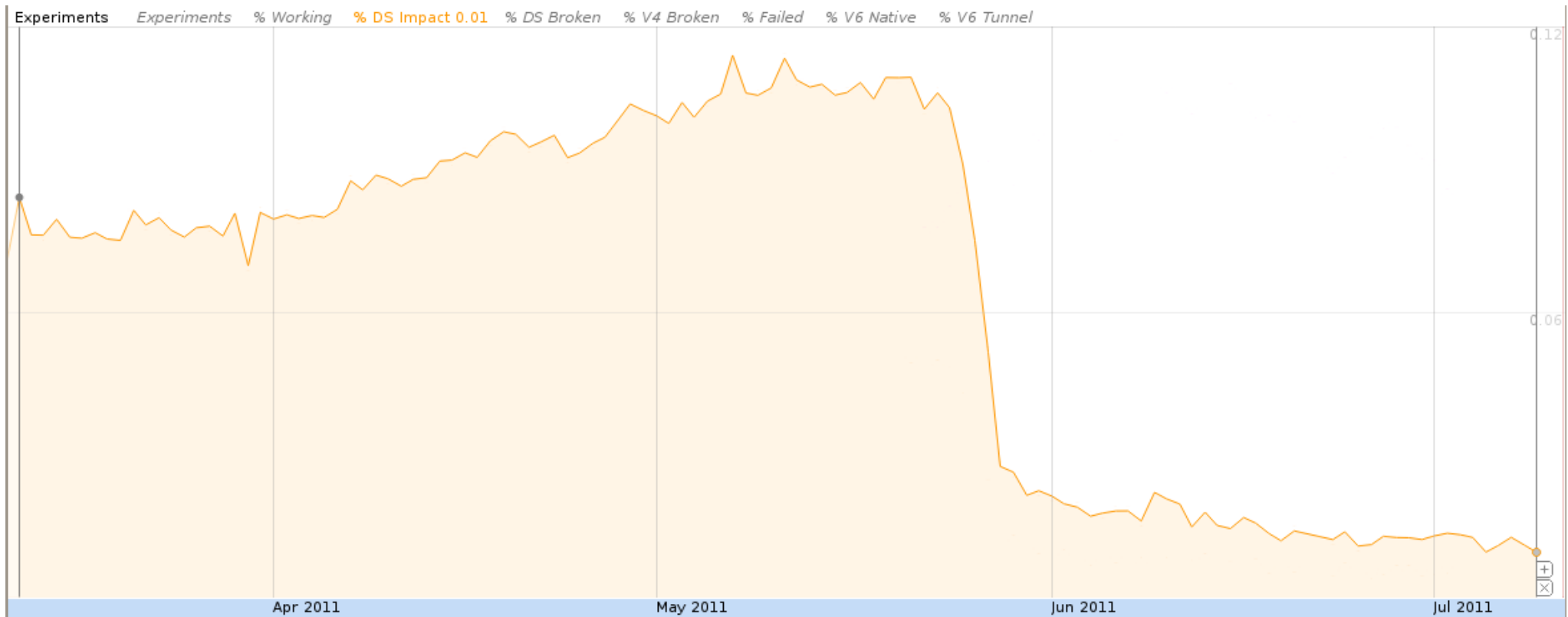
- A number of services became available over IPv6
  - Voice, talk, mobile talk, analytics, tools, ...
  - Google Public DNS - 2001:4860:4860::{8888,8844}
  - Adwords and IMAP/SMTP (soon after the day)
  - Almost all Google services now available over IPv6
- Some services left IPv6 on for everyone
  - YouTube videos, mobile gtalk
- Implemented fast fallback from IPv4 to IPv6 in Chrome

# IPv6 brokenness (excluding Chrome)



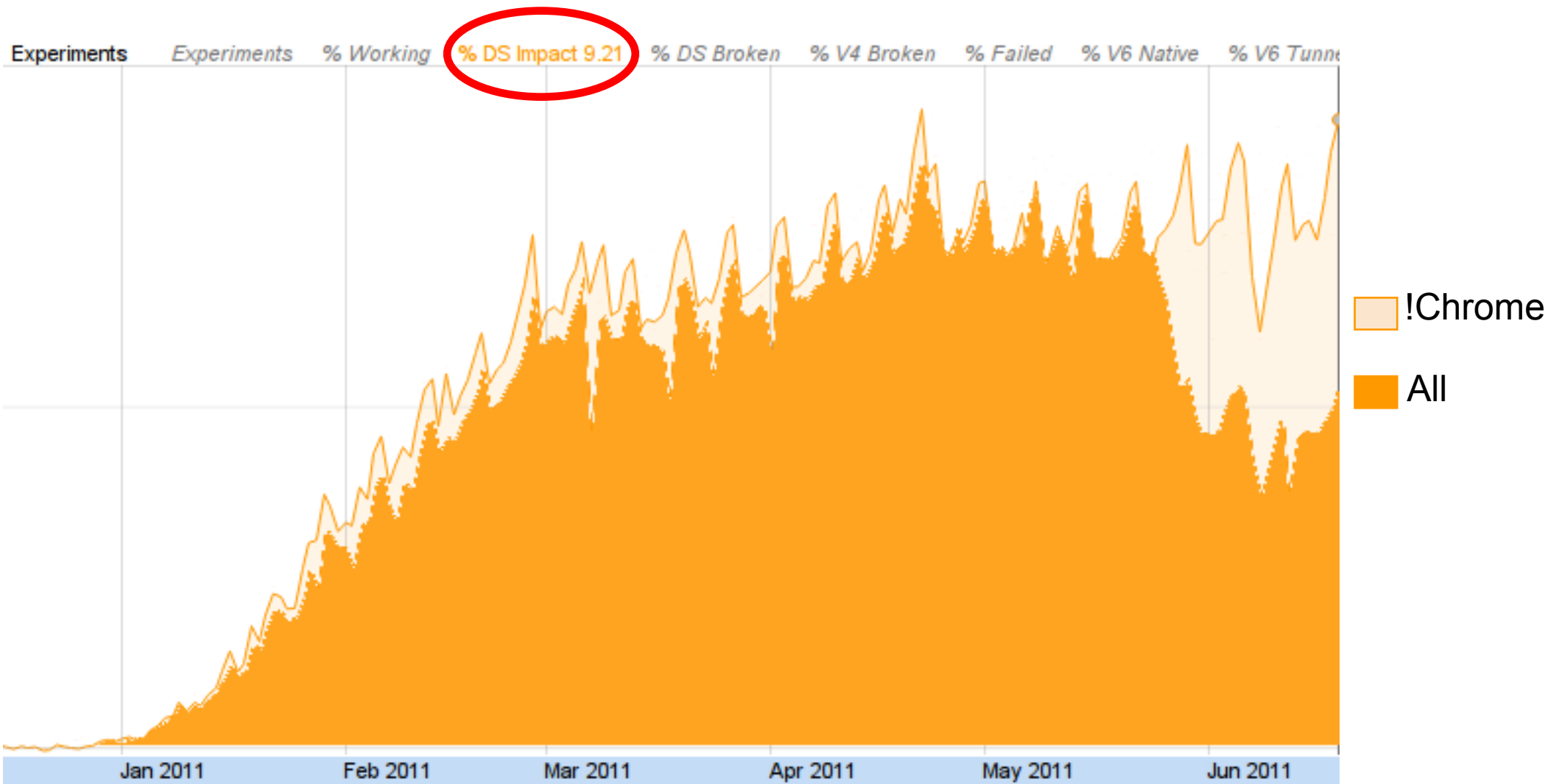
No change around World IPv6 Day

# Chrome IPv6 Brokenness



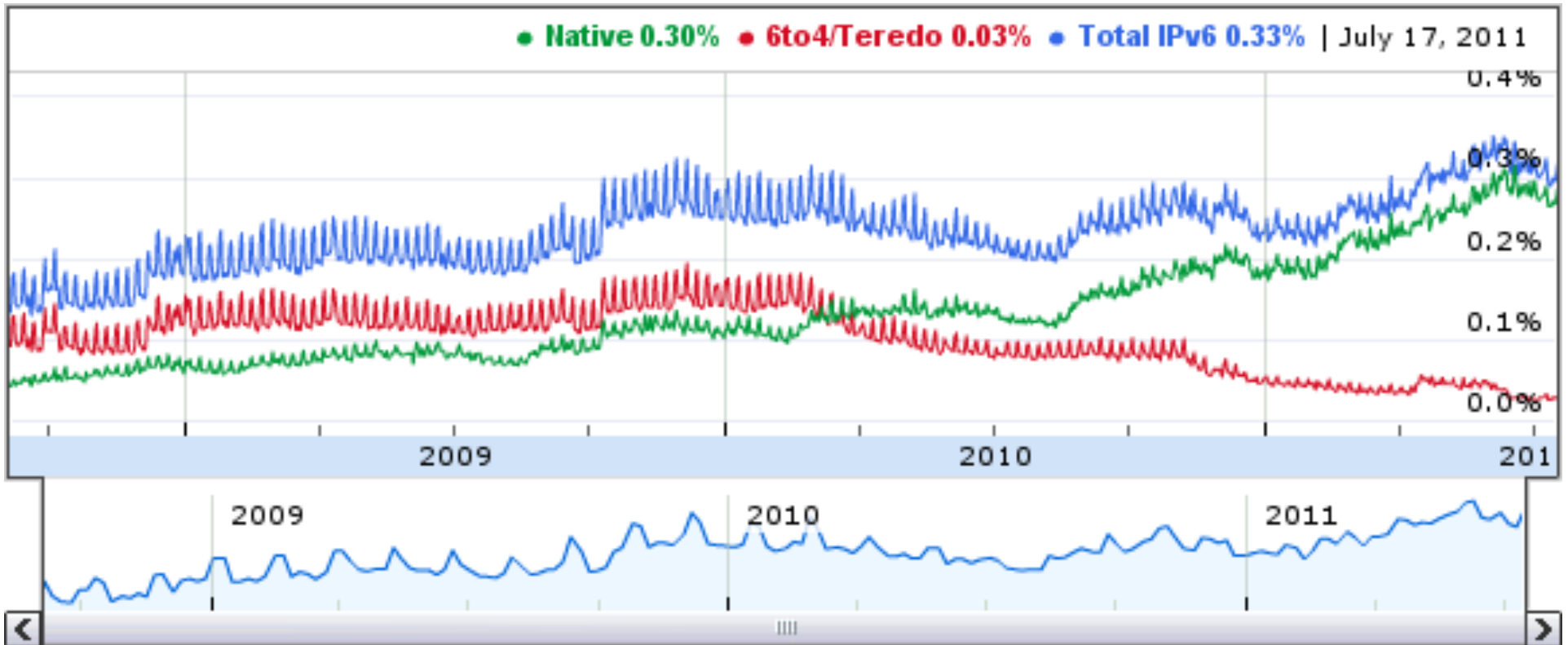
- 80-90% reduction in dual-stack brokenness
- Versions with fast-fallback 99.995% as reliable as IPv4
- Similar behaviour will be in Firefox 7
- Apple also added robustness in OS X Lion
- If IE follows suit, users with recent browsers should be OK

# A certain South American network



- 9% dual-stack failure rate!
- We told them there was a problem, but they don't see it...
- ... even on World IPv6 Day
- Responsible for almost half the brokenness on the Internet

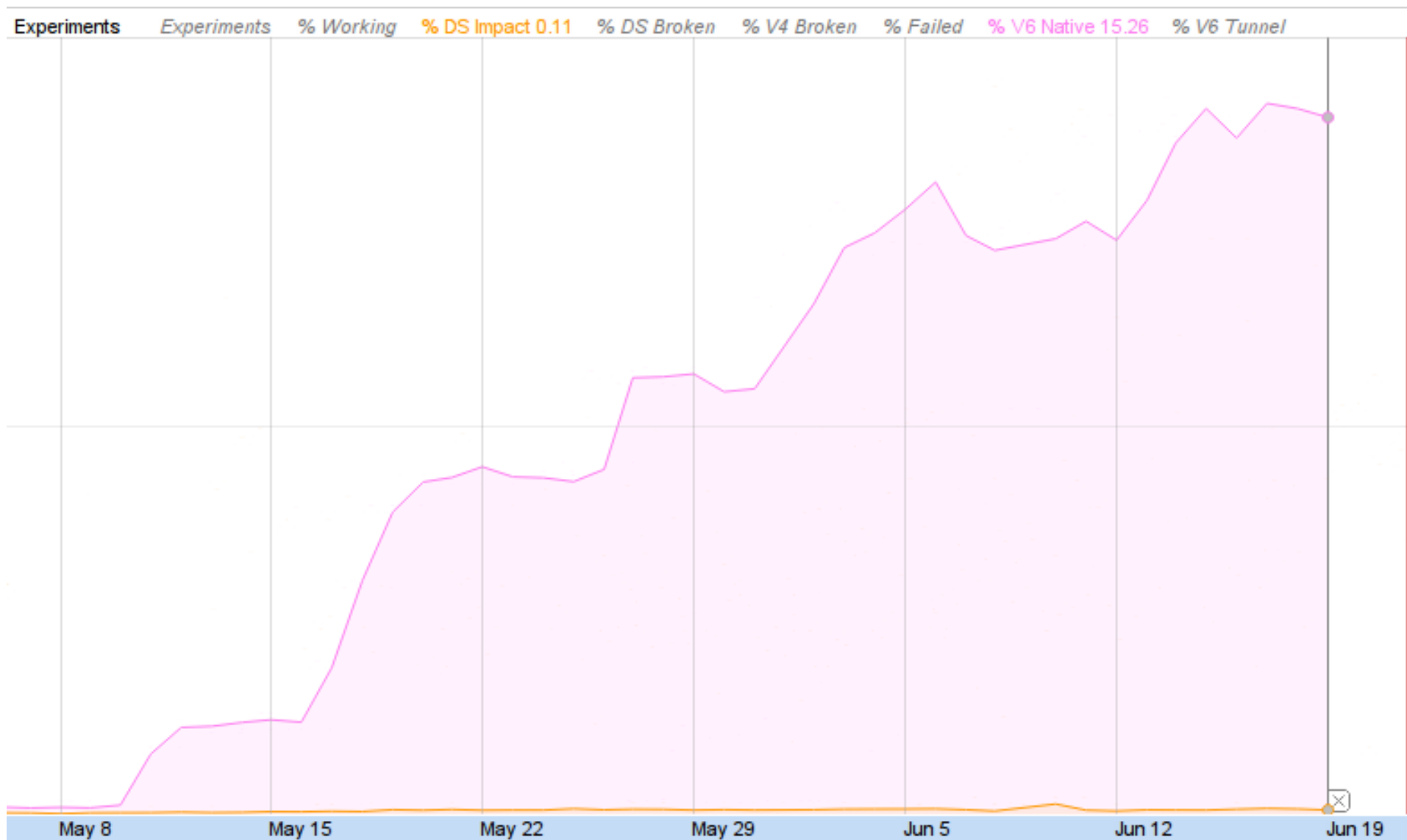
# Adoption



- Still 0.3%
  - France 3.4%, Japan 1.4% (since May)
  - Without France and Japan, 0.1%
  - Japan only joined the game recently

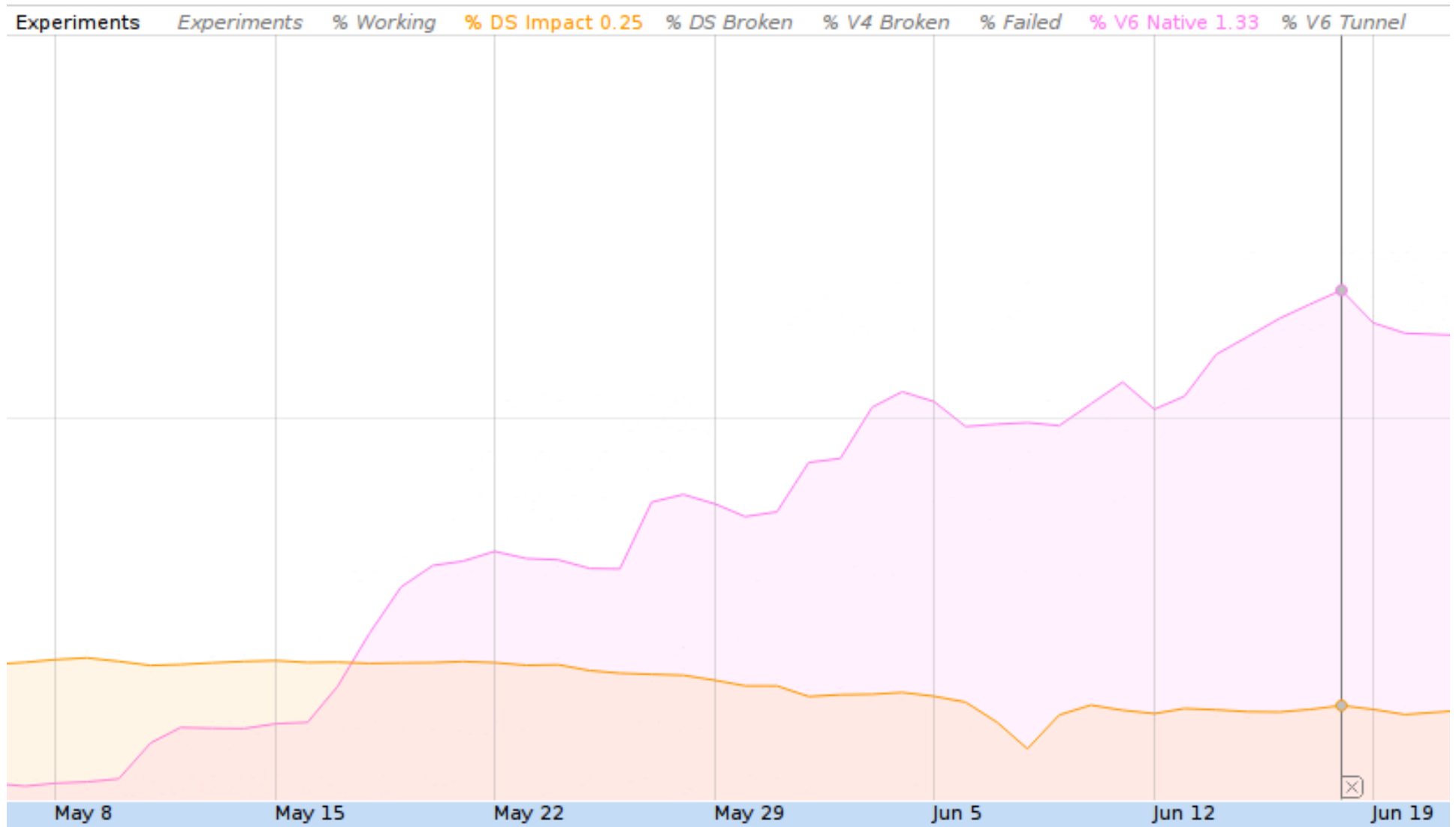


# KDDI



- IPv6 to 15% of their users in 5 weeks!
- Just in time for World IPv6 Day

# Japan as a whole



- Native users ~= KDDI
- Lots of broken users too. NGN?