Retail ISP Deployment of IPv6 in Australia

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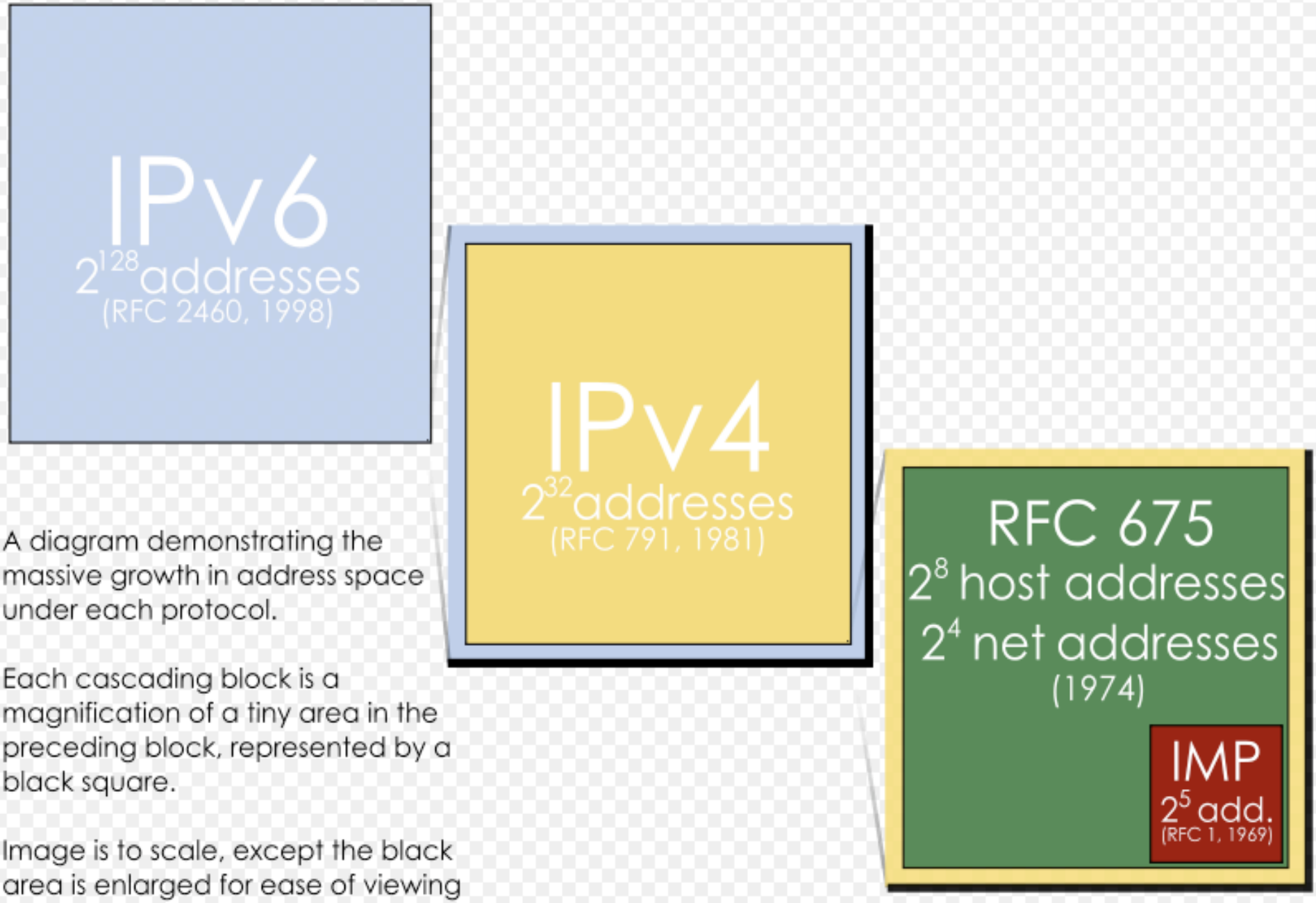
Internode

Its all about Address Space



A diagram demonstrating the massive growth in address space under each protocol.

Each cascading block is a magnification of a tiny area in the preceding block, represented by a black square.

Image is to scale, except the black area is enlarged for ease of viewing

Most users don't understand IPv6

I have no idea what you're talking about...

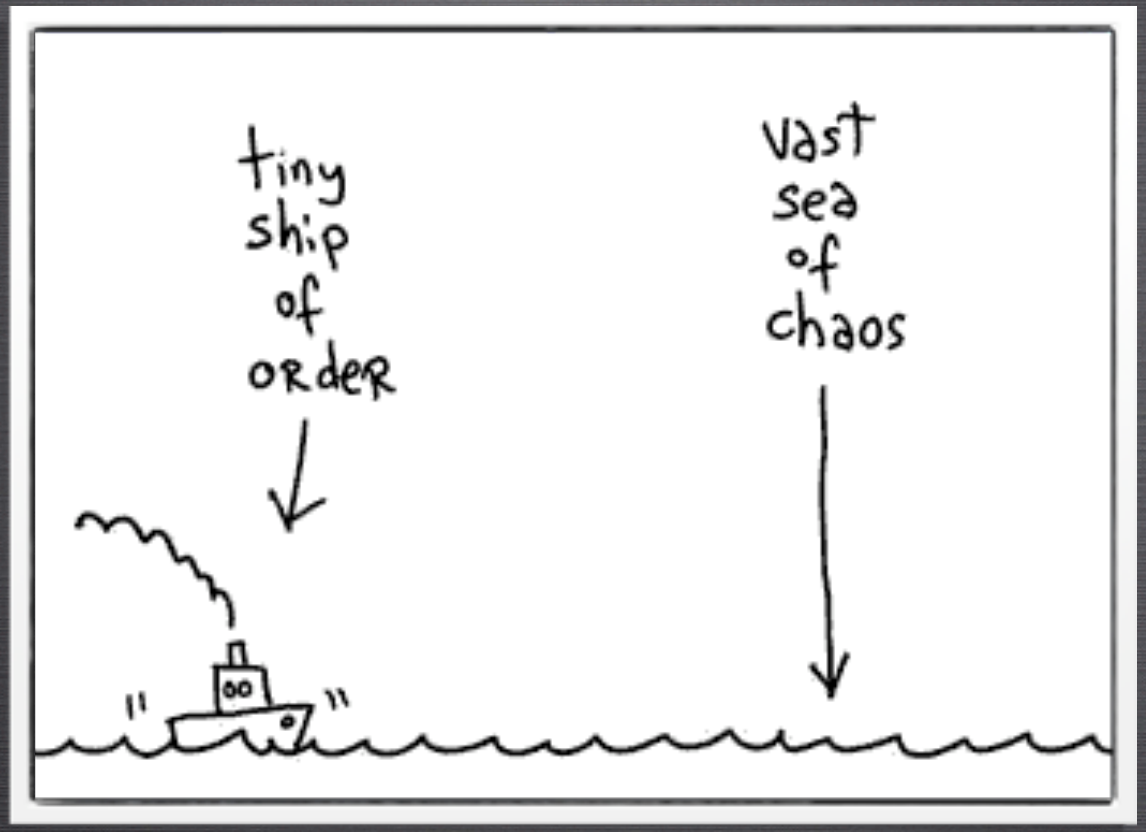
...so here's a bunny with a pancake on its head.

They just want their Interweb to work

But we all understand IPv6

(don't we?)

If we get this right, nobody notices!



The transition <u>should</u> be transparent

How far advanced are we?

"With the protocol mostly nailed down, the doors are open for rapid implementation and deployment by vendors"

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I wrote this in a featured magazine article...

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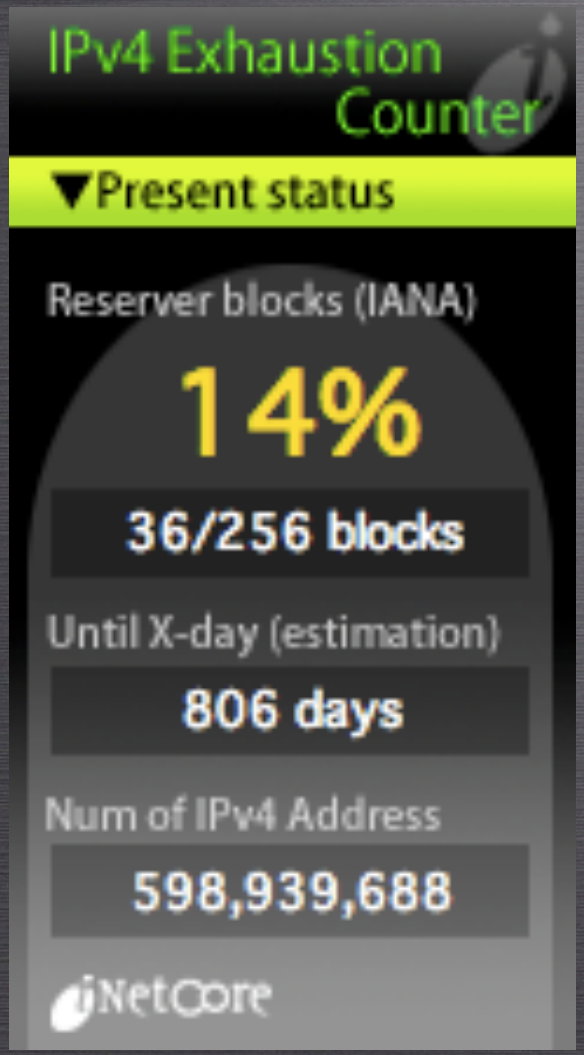
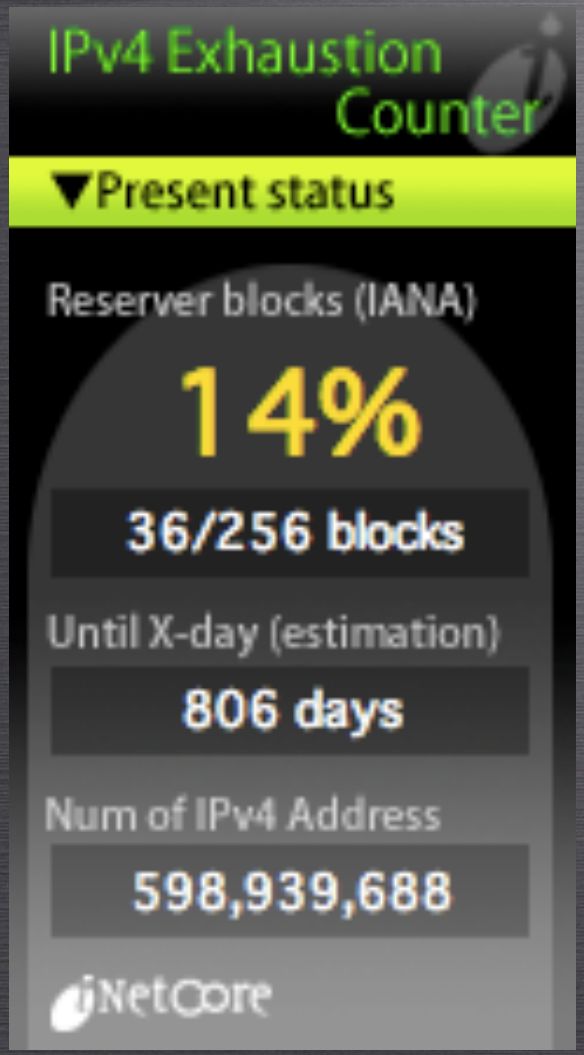
I wrote this in a featured magazine article...

...in 1995

Stopgap approaches (like NAT) work almost too well!



What if we aren't ready when it matters?



What if we aren't ready when it matters?

Trading IPv4 addresses

IPv4 via NAT - HOME

IPv4 Native - SOHO/BIZ

Is IPv6 a Premium Service?

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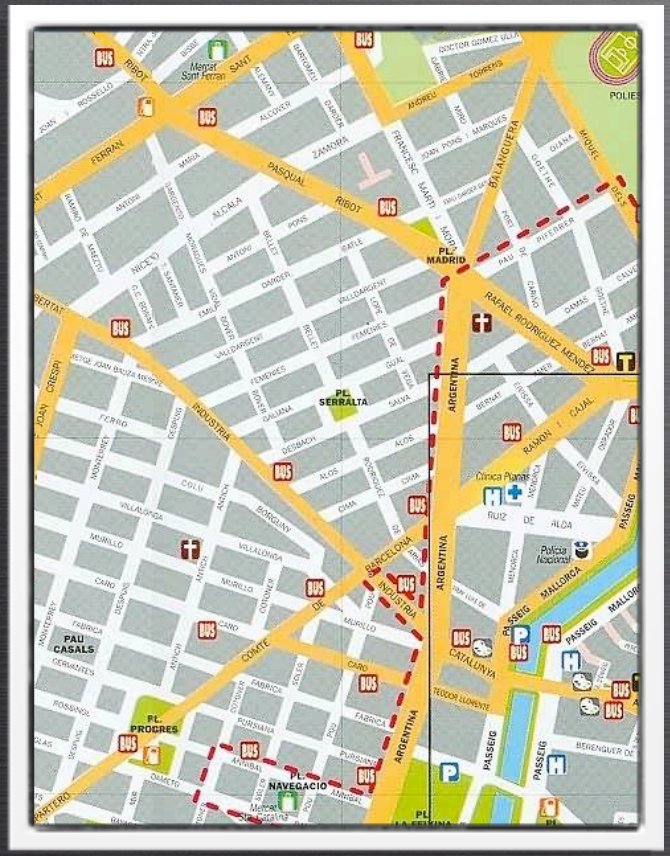
No.

No capacity to command extra income from dual stack IP services



Internode IPv6 Roadmap

Available Now: Native IPv6

National network backbone

International transit & peering

Customer leased line services

Customer co-located servers

... and this event!

ipv6.google.com

Available Now: Tunnelled IPv6

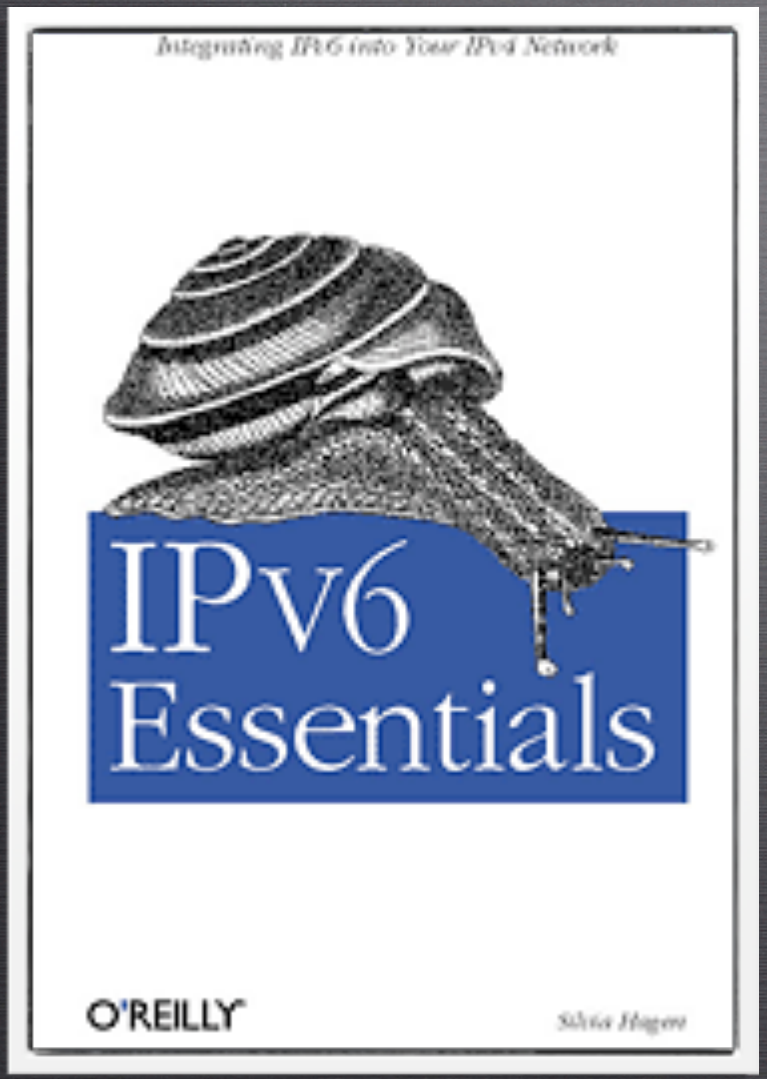
access nationally (for geeks)

Hexago tunnel server

6to4 gateway

Planned for 2009: native IPv6 over PPP (automatic dual stack)

- ADSL services
- Wireless DSL services
- Even Dialup



We have the necessary industry expertise

We still have one external barrier

But: We're Ready.

We hope others will join us in 2009

Thanks!

http://ipv6.internode.on.net