

We're all peer-to-peer now

Daniel J. Weitzner

MIT Decentralized Information Group

<http://www.w3.org/People/Weitzner.html>



From the 1998 Web -> Web 2.0

Changing usage and traffic patterns



A simple blog page



http://people.w3.org/...



Legend

Information Flow ↔

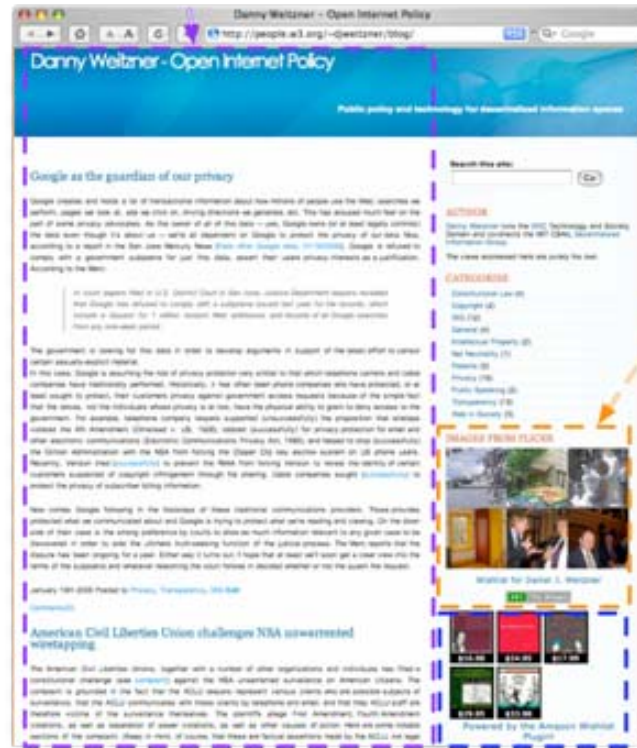
Packet Flow

Network Fees

Links



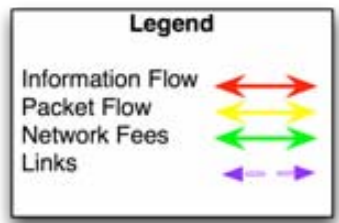
...from many sources



<http://people.w3.org/...>



User

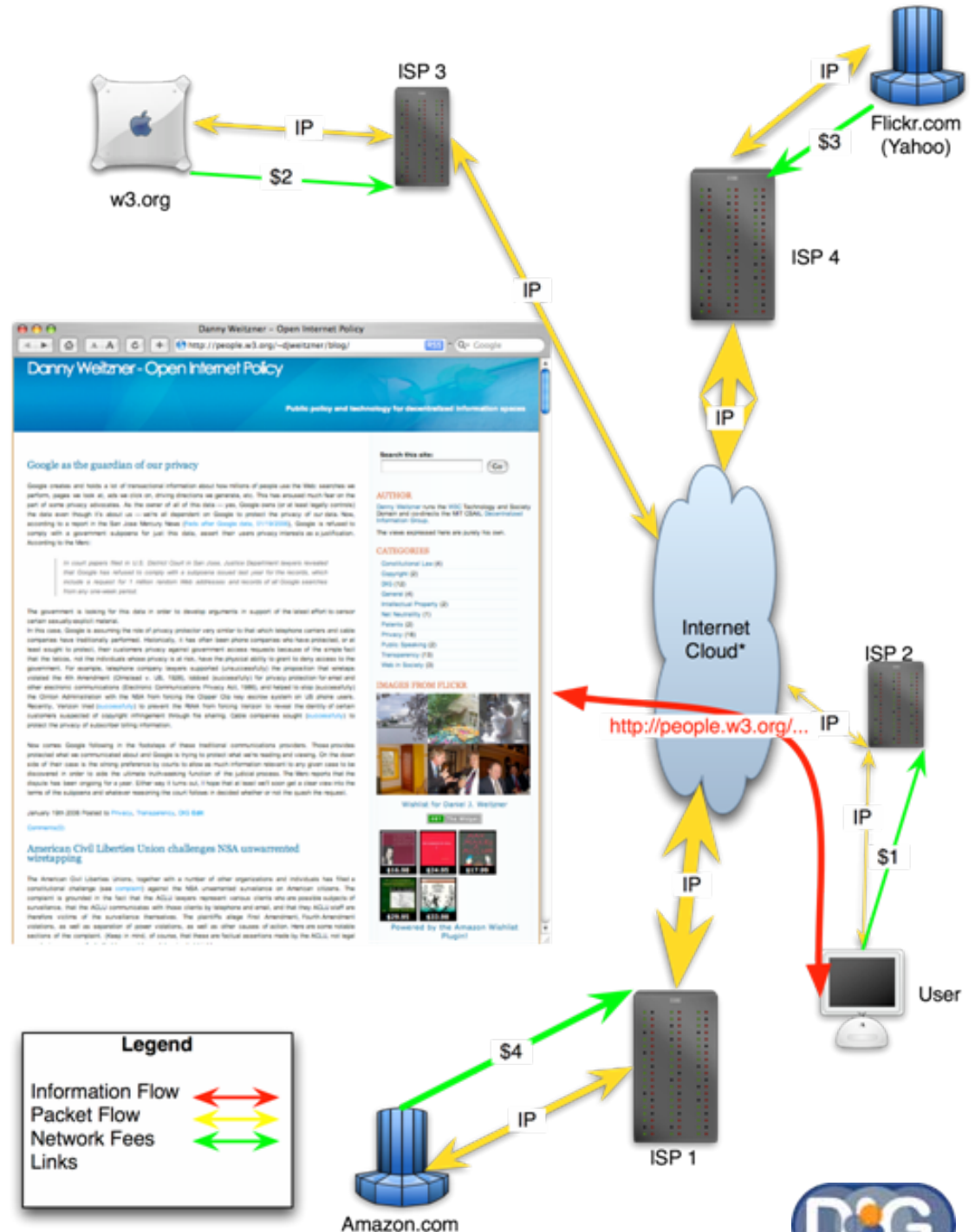


Speakers depend on essential, non-discriminatory features of the Internet

Low/zero transaction costs between speakers & user-audience

- Simple economic model
 - user pays
 - No privity between speaker and user's ISP
- Internet community social compact
 - Common technical protocols
 - Best efforts routing
 - Aggressive network management to curb criminal interference with network operation (spam, DDOS, etc.)

These essential features of the Internet *enable open competition, innovation and First Amendment diversity of speakers, but did not arise through market forces alone.*



Images based on joint work with Alissa Cooper/CDT

