This visualization represents microscopic snapshots of IPv4 and IPv6 Internet topologies sampled in 2011. The plotting method illustrates both the relative geographical location of ASes as well as inter-exchange topology of nodes participating in the Internet.

For the IPv4 map, CAIDA collected data from 16 autonomous systems (ASes) that cover 127.0.0.0/8 in 2011. Coordinated by our active routers, BGP messages were collected for four ASes located in 29 countries on 6 continents. CAIDA collected data from 54 monitors located in 12 countries on 4 continents. This dataset contained paths toward 207 million /24 networks that cover 93.3% of the global address space.

IPv4

For the IPv6 map, CAIDA collected data from 216 ASes located in 29 countries on 6 continents. Coordinated by our active routers, BGP messages were collected for four ASes located in 29 countries on 6 continents. CAIDA collected data from 54 monitors located in 12 countries on 4 continents. This dataset contained paths toward 307,000 /24 networks that cover 93.3% of the global address space.

IPv6

In 2010, the top-ranked ASes in the IPv6 graph were mostly dominated by 1239 Sprint Internet, Level 3 (a division of Qwest Communications International), Global Crossing, and Cogent. In 2011, the top-ranked ASes in the IPv6 graph were mostly dominated by 1239 Sprint Internet, Level 3 (a division of Qwest Communications International), Global Crossing, and Cogent. The prominence of a European exchange point and a research network in the observable IPv6 topology is a symptom of the immaturity of the IPv6 infrastructure. As IPv6 deployment progresses, we expect increasing congruence between the ASes with the same top-ranked AS degree in the two peering graphs. This trend also explains the missing negligible edge between

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This page contains a visual representation of Internet topologies sampled in 2011. The diagrams illustrate the relative geographical location of Autonomous Systems (ASes) as well as the inter-exchange topology of nodes participating in the Internet. The IPv4 map shows data collected from 16 ASes covering 127.0.0.0/8, while the IPv6 map shows data from 216 ASes covering the entire IPv6 address space. The top-ranked ASes in both graphs are dominated by Sprint, Level 3, Global Crossing, and Cogent, indicating a strong presence in the peering landscape.