

One Page Series: Mac OS X -- IPv6 and Browsing the Web Via Firefox, Camino, Opera and Safari

[If you haven't already done so, begin with [One Page Series: Mac OS X -- Enabling Native IPv6 Via Stateless Autoconfiguration](#)]

If you don't already have Firefox on your Mac, you can download it for free from <http://www.mozilla.com/firefox/>

If you don't already have Camino on your Mac, you can download it for free from <http://caminobrowser.org/>

If you don't already have Opera on your Mac, you can download it for free from <http://www.opera.com/>

Safari is another option, bundled for free with Mac OS X. You can find Safari in your Mac's Applications folder.

Browsing the IPv6 Web With Firefox (or Camino)

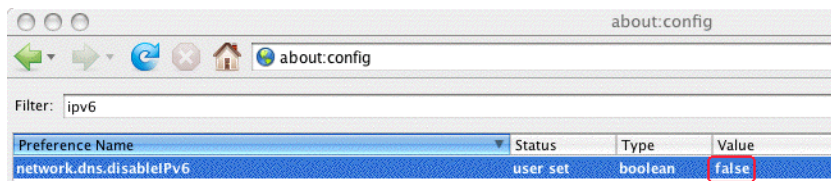
Firefox (and Camino) are both IPv6 aware, but need one tweak to work properly with IPv6.

Launch Firefox (or Camino) and go to `about:config`

Filter on `ipv6`

Click on `network.dns.disableIPv6` to set the value for that preference item to **false**

You only need to adjust this setting once -- it will be remembered from then on



Now try using IPv6 by going to <http://ipv6.google.com/>

You should see a dancing Google

Browsing the IPv6 Web With Opera

Opera is all set to work with IPv6 web sites, just launch Opera and stick in an IPv6 URL and Opera will go to that site.

Browsing the IPv6 Web With Safari

There is one key thing to know about Safari and IPv6, and that is that in some versions of OS X and Safari, it likes IPv4 more than it likes IPv6. Thus if a web site is available via both IPv6 and IPv4 addresses, Safari will always attempt to connect to that site via IPv4 rather than via IPv6, unlike some other web browsers where IPv6 is preferred to IPv4.

If you'd like Safari to prefer IPv6 connections when both IPv6 and IPv4 are available, do the following...

Open a terminal window on your Mac (Applications ==> Utilities ==> Terminal)

Enable the Safari Debug menu by entering the following command at the unix prompt:

```
defaults write com.apple.Safari IncludeDebugMenu 1
```

You can then close the terminal window by clicking on the red X ball in the upper left corner.

Now launch Safari, and go to Safari's Debug Menu (it will be on the far right side of the main Safari menu), and come all the way down to Supported Protocols and **uncheck** `http: (Simple Loader)`

If you then go to a site that has both IPv4 and IPv6 versions, the IPv6 version will be preferred (try going to <http://www.kame.net>)

A Somewhat Random Selection of IPv6-Accessible Web Sites

Google	http://ipv6.google.com/	2001:4860:b005::68
AFRINIC	http://www.afrinic.net/	2001:42d0::200:80:1
APNIC	http://www.apnic.net/	2001:dc0:2001:b:4608::115
Arctic Regional Supercomputer Center	http://www.arsc.edu/	2001:480:150:75::109
Argonne National Lab Public Software Mirror	http://mirror.anl.gov/	2620::dc0:1800:214:4fff:fe7d:1b9
ARIN	http://www.arin.net/	2001:500:4:13::80 and 2001:500:4:13::81
Berkeley	http://www.ipv6.berkeley.edu/	2607:f140:ffff:ffff::80
DANTE	http://www.dante.net/	2001:798:2:284d::60
deepspace6.net (Linux IPv6 portal)	http://www.deepspace6.net/	2001:760:2e01:1::dead:beef
DREN	http://www.ipv6.dren.net/	2001:480:10:1050::5
ESNet	http://www.es.net/	2001:400:14:3::d
Fort Scott Community College	http://www.fortscott.edu/	2001:49d0:2c02::214:22ff:fe0f:38f4
Hexago	http://www.hexago.com/	2001:5c0:1000:10::2
HPCMO	http://www.hpcmo.hpc.mil/	2001:480:430:dddd:68b0:bff:fed5:f128
Hurricane Electric	http://ipv6.he.net/	2001:470:0:64::2
IANA	http://www.iana.org/	2620:0:2d0:1::193
ICANN	http://www.icann.org/	2620:0:2d0:1::103
IETF	http://www.ietf.org/	2001:1890:1112:1::20
Internet2	http://www.ipv6.internet2.edu/	2001:468:1420::151
Iowa State University	http://www.iastate.edu/	2610:130:101:100::7
IPv6.org	http://www.ipv6.org/	2001:6b0:1:ea:202:a5ff:fedc:13a6
IPv6 Portal	http://www.ipv6tf.org/	2a01:48:1::2e0:81ff:fe05:4658
IPv6 Task Force	http://www.ipv6.eu/	2001:690:1fff:200::226
ISC	http://www.isc.org/	2001:4f8:0:2::d
KAME Project	http://www.kame.net/	2001:200::8002:203:47ff:fea5:3085
KANREN	http://www.kanren.net/	2001:49d0:3c00:1:209:6bff:fe7f:6c06
Kenya NIC	http://www.kenic.or.ke/	2001:43f8:10:50::2655
LACNIC	http://www.lacnic.net/	2001:13c7:7002:4000::10
Linkopings University	http://www.liu.se/	2001:6b0:17:f005::148
MAGPI	http://www.magpi.net/	2001:468:1802:101::805b:22c
Michigan Tech	http://www.ipv6.mtu.edu/	2001:48a8:0:2::1:22
NANOG	http://www.nanog.org/	2001:48a8:6880:95::21
Nederlandse IPv6 Task Force	http://www.ipv6-taskforce.nl/	2001:610:512::1000
NREN	http://www.nren.nasa.gov/	2001:4d0:8102:8:198:10:138:131
NTT	http://www.nttv6.net/	2001:fa8::80
Peter Bieringer	http://www.ipv6.bieringer.de/	2001:a60:9002:1::186:6
RIPE	http://www.ripe.net/	2001:610:240:11::c100:1319
Sauk Valley Community College	http://www.svcc.edu/	2001:470:c10b::214:5eff:fe28:7878
Space and Naval Warfare Systems Command	http://www.spawar.navy.mil/	2001:480:10:1048:a00:20ff:fe9a:58c1
SURFNet	http://www.ipv6.surfnet.nl/	2001:610:510::192:42:113:60
SWITCH	http://www.switch.ch/	2001:620:0:1b::b
TERENA	http://www.terena.org/	2001:610:148:dead::6
Tsinghua University	http://www.tsinghua.edu.cn/	2001:da8:200:200::4:100
UCLA	http://www.ucla.edu/	2607:f010:3fe:301:101d:9ff:fe32:a7db (etc)
University of Hawaii	http://www.ipv6.hawaii.edu/	2607:f278:4101:11:209:5bff:fe8f:6609
University of Oregon video archive	http://limestone.uoregon.edu/	2001:468:d01:103::80df:9d0c
Virginia Tech	http://www.ipv6.vt.edu/	2001:468:c80:210f::173:2bc6:4145
WPI	http://www.wpi.edu/	2001:468:616:824::31
3ROX	http://www.3rox.net/	2001:5e8:0:1000::fa
6TAP	http://www.6tap.net/	2001:400:14:3::9

Track the IPv6-ification of some of your favorite web sites at http://www.mrp.net/IPv6_Survey.html

Access most any IPv4-only web site via IPv6 using sixxs.org's IPv4-to-IPv6 gateway by just appending sixxs.org to the normal IPv4 only domain name. For example, to access www.cnn.com via IPv6, you'd go to <http://www.cnn.com.sixxs.org/>

Ver 0.1 (5/27/2009) Questions/comments about this document? Please contact Joe St Sauver (joe@uoregon.edu)