IP Address RegEx

IPv4

```
^([0-9]{1,2}|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.([0-9]{1,2}|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.([0-9]{1,2}|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.([0-9]{1,2}|1[0-9]{2}|2[0-4][0-9]|25[0-5])$
```

```
[0-9]{1,2}|1[0-9]{2}|2[0-4][0-9]|25[0-5]    0-255
.                        .
```

IPv6

```
^(((([0-9a-fA-F]{1,4}:){7}([0-9a-fA-F]{1,4}))|(([0-9a-fA-F]{1,4}:){1,7}:)|(([0-9a-fA-F]{1,4}:){1,6}(:[0-9a-fA-F]{1,4}){1})|(([0-9a-fA-F]{1,4}:){1,5}(:[0-9a-fA-F]{1,4}){2})|(([0-9a-fA-F]{1,4}:){1,4}(:[0-9a-fA-F]{1,4}){3})|(([0-9a-fA-F]{1,4}:){1,3}(:[0-9a-fA-F]{1,4}){4})|(([0-9a-fA-F]{1,4}:){1,2}(:[0-9a-fA-F]{1,4}){5})|(([0-9a-fA-F]{1,4}:){1}(:[0-9a-fA-F]{1,4}){6})|(:(:[0-9a-fA-F]{1,4}){1,7})|(([0-9a-fA-F]{1,4}){1}:(:[0-9a-fA-F]{1,4}){1,6})|(([0-9a-fA-F]{1,4}:){2}(:[0-9a-fA-F]{1,4}){1,5})|(([0-9a-fA-F]{1,4}:){3}(:[0-9a-fA-F]{1,4}){1,4})|(([0-9a-fA-F]{1,4}:){4}(:[0-9a-fA-F]{1,4}){1,3})|(([0-9a-fA-F]{1,4}:){5}(:[0-9a-fA-F]{1,4}){1,2})|(([0-9a-fA-F]{1,4}:){6}(:[0-9a-fA-F]{1,4}){1})|(::)|(fe80:(:[0-9a-fA-F]{0,4}){0,4}%[0-9a-zA-Z]{1,})|(::(ffff(:0{1,4}){0,1}:){0,1}((25[0-5]|(2[0-4]|1{0,1}[0-9]){0,1}[0-9])\.){3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9]){0,1}[0-9])|(([0-9a-fA-F]{1,4}:){1,4}:((25[0-5]|(2[0-4]|1{0,1}[0-9]){0,1}[0-9])\.){3,3}(25[0-5]|(2[0-4]|1{0,1}[0-9]){0,1}[0-9])))))$
```

```
(([0-9a-fA-F]{1,4}:){7}([0-9a-fA-F]{1,4}))              1:2:3:4:5:6:7:8
(([0-9a-fA-F]{1,4}:){1,7}:)                      1::          do
1:2:3:4:5:6:7::
(([0-9a-fA-F]{1,4}:){1,6}(:[0-9a-fA-F]{1,4}){1})            1::8         do
1:2:3:4:5:6::8
(([0-9a-fA-F]{1,4}:){1,5}(:[0-9a-fA-F]{1,4}){2})            1::7:8
do    1:2:3:4:5::7:8
(([0-9a-fA-F]{1,4}:){1,4}(:[0-9a-fA-F]{1,4}){3})            1::6:7:8    do
1:2:3:4::6:7:8
(([0-9a-fA-F]{1,4}:){1,3}(:[0-9a-fA-F]{1,4}){4})            1::5:6:7:8    do
1:2:3::5:6:7:8
(([0-9a-fA-F]{1,4}:){1,2}(:[0-9a-fA-F]{1,4}){5})            1::4:5:6:7:8
do    1:2::4:5:6:7:8
(([0-9a-fA-F]{1,4}:){1}(:[0-9a-fA-F]{1,4}){6})              1::3:4:5:6:7:8

(:(:[0-9a-fA-F]{1,4}){1,7})                      ::8        do
::2:3:4:5:6:7:8
```

```
(([0-9a-fA-F]{1,4}){1}:(:[0-9a-fA-F]{1,4}){1,6})            1::8        do
1::3:4:5:6:7:8
(([0-9a-fA-F]{1,4}:){2}(:[0-9a-fA-F]{1,4}){1,5})            1:2::8        do
1:2::4:5:6:7:8
(([0-9a-fA-F]{1,4}:){3}(:[0-9a-fA-F]{1,4}){1,4})            1:2:3::8    do
1:2:3::5:6:7:8
(([0-9a-fA-F]{1,4}:){4}(:[0-9a-fA-F]{1,4}){1,3})            1:2:3:4::8    do
1:2:3:4::6:7:8
(([0-9a-fA-F]{1,4}:){5}(:[0-9a-fA-F]{1,4}){1,2})            1:2:3:4:5::8
do    1:2:3:4:5::7:8
(([0-9a-fA-F]{1,4}:){6}(:[0-9a-fA-F]{1,4}){1})              1:2:3:4:5:6::8
do    1:2:3:4:5:6::8

(::)                                    ::

(fe80:(:[0-9a-fA-F]{0,4}){0,4}%[0-9a-zA-Z]{1,})             fe80::7:8%eth0
fe80::7:8%1     (link-local IPv6 addresses with zone index)

(::(ffff(:0{1,4}){0,1}:){0,1}((25[0-5]|(2[0-4]|1{0,1}[0-9]){0,1}[0-9]).){3,3
}(25[0-5]|(2[0-4]|1{0,1}[0-9]){0,1}[0-9]))  ::255.255.255.255
::ffff:255.255.255.255  ::ffff:0:255.255.255.255  (IPv4-mapped IPv6
addresses and IPv4-translated addresses)

(([0-9a-fA-
F]{1,4}:){1,4}:((25[0-5]|(2[0-4]|1{0,1}[0-9]){0,1}[0-9]).){3,3}(25[0-5]|(2[0
-4]|1{0,1}[0-9]){0,1}[0-9])) 2001:db8:3:4::192.0.2.33  64:ff9b::192.0.2.33
(IPv4-Embedded IPv6 Address)
```

From:
https://wiki.plecko.hr/ - **Eureka Moment**

Permanent link:
https://wiki.plecko.hr/doku.php?id=general:regex:ip_address

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