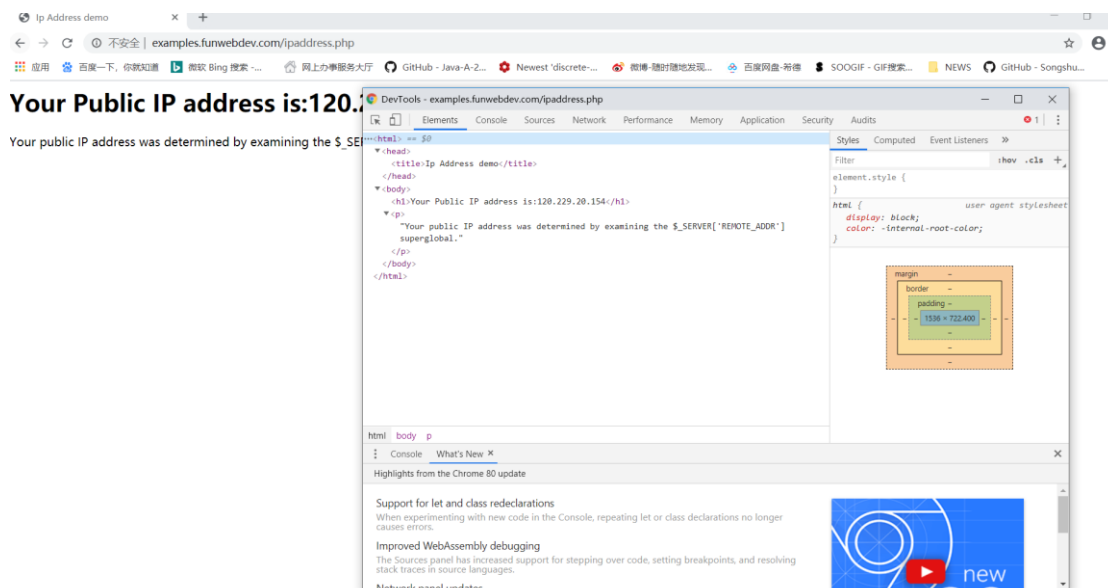1. ipconfig:



```
无线局域网适配器 WLAN:

   连接特定的 DNS 后缀 . . . . . . . . : DHCP HOST
   本地链接 IPv6 地址. . . . . . . . : fe80::c589:eae3:2707:53c5%16
   IPv4 地址 . . . . . . . . . . . . : 192.168.0.103
   子网掩码  . . . . . . . . . . . . : 255.255.255.0
   默认网关. . . . . . . . . . . . . : 192.168.0.1
```

2. 展开左边所有的 HTML 标签，网页内容连同开发者工具页面：



3. 使用 nslookup：
   a) 查询 baidu.com 的 A 地址记录：



```
非权威应答:
名称:    baidu.com
Addresses:  39.156.69.79
            220.181.38.148
```

   b) 查询 baidu.com 的 域名服务器：

```
PS C:\Users\: ) > nslookup -qt=NS baidu.com
DNS request timed out.
     timeout was 2 seconds.
服务器:  UnKnown
Address:   103.85.84.202

DNS request timed out.
     timeout was 2 seconds.
非权威应答:
baidu.com         nameserver = ns2.baidu.com
baidu.com         nameserver = ns3.baidu.com
baidu.com         nameserver = dns.baidu.com
baidu.com         nameserver = ns7.baidu.com
baidu.com         nameserver = ns4.baidu.com

dns.baidu.com     internet address = 202.108.22.220
ns2.baidu.com     internet address = 220.181.33.31
ns4.baidu.com     internet address = 14.215.178.80
ns7.baidu.com     internet address = 180.76.76.92
ns3.baidu.com     internet address = 112.80.248.64
```

c) 使用授权服务器查询 baidu.com 的 IP 地址：

```
PS C:\Users\: ) > nslookup baidu.com ns2.baidu.com
DNS request timed out.
     timeout was 2 seconds.
服务器:  UnKnown
Address:   220.181.33.31

DNS request timed out.
     timeout was 2 seconds.
DNS request timed out.
     timeout was 2 seconds.
非权威应答:
名称:     baidu.com
Addresses:  220.181.38.148
          39.156.69.79
```

d) 查询 114.114.114.114 匹配的主机名：

```
名称:     public1.114dns.com
Address:   114.114.114.114
```

4. user-agent 的完整信息：

```
Sec-Fetch-Dest: image
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/80.0.398
7.122 Safari/537.36
```

5.

a) 跟踪一个从你的计算机发往 microsoft.com 的数据包：

```
PS C:\Users\: ) > tracert microsoft.com

通过最多 30 个跃点跟踪
到 microsoft.com [13.77.161.179] 的路由:

  1     4 ms     1 ms     2 ms   192.168.0.1
  2     2 ms     1 ms     1 ms   192.168.1.1
  3     5 ms     8 ms    15 ms   172.59.0.1
  4    12 ms    10 ms    30 ms   183.233.67.49
  5     6 ms    26 ms     7 ms   211.139.157.1
  6    10 ms     9 ms    10 ms   221.183.24.73
  7    17 ms     9 ms     9 ms   221.176.22.114
  8   138 ms    42 ms    43 ms   221.176.24.58
  9    45 ms    50 ms    22 ms   221.183.30.150
 10     *       44 ms    49 ms   223.118.3.142
 11    48 ms    77 ms    89 ms   223.119.0.174
 12    92 ms   105 ms    94 ms   ae26-0.icr01.hkg31.ntwk.msn.net [104.44.237.197]
 13   661 ms   279 ms   239 ms   be-120-0.ibr02.hkg31.ntwk.msn.net [104.44.11.141]
 14     *      410 ms   232 ms   be-10-0.ibr02.tyo79.ntwk.msn.net [104.44.17.192]
 15   262 ms   301 ms     *      be-5-0.ibr02.pdx30.ntwk.msn.net [104.44.19.85]
 16     *        *       247 ms   be-4-0.ibr04.mwh01.ntwk.msn.net [104.44.16.68]
 17   241 ms     *        *      ae163-0.icr02.mwh01.ntwk.msn.net [104.44.21.166]
 18     *        *        *      请求超时。
 19     *        *        *      请求超时。
 20     *        *        *      请求超时。
 21     *        *        *      请求超时。
 22     *        *        *      请求超时。
 23     *        *        *      请求超时。
 24     *        *        *      请求超时。
 25     *        *        *      请求超时。
 26     *        *        *      请求超时。
 27     *        *        *      请求超时。
 28     *        *        *      请求超时。
 29     *        *        *      请求超时。
 30     *        *        *      请求超时。

跟踪完成。
PS C:\U  ) )
```

b) **利用 whois 查询 tencent.com 的相关信息：**

```
Domain Name: tencent.com
Registry Domain ID: 3216596_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.markmonitor.com
Registrar URL: http://www.markmonitor.com
Updated Date: 2019-08-12T02:11:43-0700
Creation Date: 1998-09-13T21:00:00-0700
Registrar Registration Expiration Date: 2021-09-12T00:00:00-0700
Registrar: MarkMonitor, Inc.
Registrar IANA ID: 292
Reseller:
Domain Status: clientUpdateProhibited (https://www.icann.org/epp#clientUpdateProhibited)
Domain Status: clientTransferProhibited (https://www.icann.org/epp#clientTransferProhibite
d)
Domain Status: clientDeleteProhibited (https://www.icann.org/epp#clientDeleteProhibited)
Domain Status: serverUpdateProhibited (https://www.icann.org/epp#serverUpdateProhibited)
Domain Status: serverTransferProhibited (https://www.icann.org/epp#serverTransferProhibite
d)
Domain Status: serverDeleteProhibited (https://www.icann.org/epp#serverDeleteProhibited)
Registrant State/Province: Guang Dong
Registrant Country: CN
Name Server: ns1.qq.com
Name Server: ns3.qq.com
Name Server: ns4.qq.com
Name Server: ns2.qq.com
DNSSEC: unsigned
Registrar Abuse Contact Email: abusecomplaints@markmonitor.com
Registrar Abuse Contact Phone: +1.2083895770
URL of the ICANN WHOIS Data Problem Reporting System: http://wdprs.internic.net/
>>>Last update of WHOIS database: 2020-02-26T05:53:01Z <<<

For more information on Whois status codes, please visit https://icann.org/epp
```