你的 IP 地址 (IP address)

```
en5: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
        ether ac:de:48:00:11:22
        inet6 fe80::aede:48ff:fe00:1122%en5 prefixlen 64 scopeid 0x8
        nd6 options=201<PERFORMNUD,DAD>
        media: autoselect (100baseTX <full-duplex>)
        status: active

en0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
        ether a4:83:e7:5e:76:5c
        inet6 fe80::c74:5b49:4a6c:cf8e%en0 prefixlen 64 secured scopeid 0xa
        inet 10.219.182.171 netmask 0xfffffc000 broadcast 10.219.191.255
        nd6 options=201<PERFORMNUD,DAD>
        media: autoselect
        status: active
p2p0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 2304
        ether 06:83:e7:5e:76:5c
        media: autoselect
        status: inactive
awdl0: flags=8943<UP,BROADCAST,RUNNING,PROMISC,SIMPLEX,MULTICAST> mtu 1484
        ether c2:5a:2e:d3:ec:8f
        inet6 fe80::c05a:2eff:fed3:ec8f%awdl0 prefixlen 64 scopeid 0xc
        nd6 options=201<PERFORMNUD,DAD>
        media: autoselect
        status: active
```
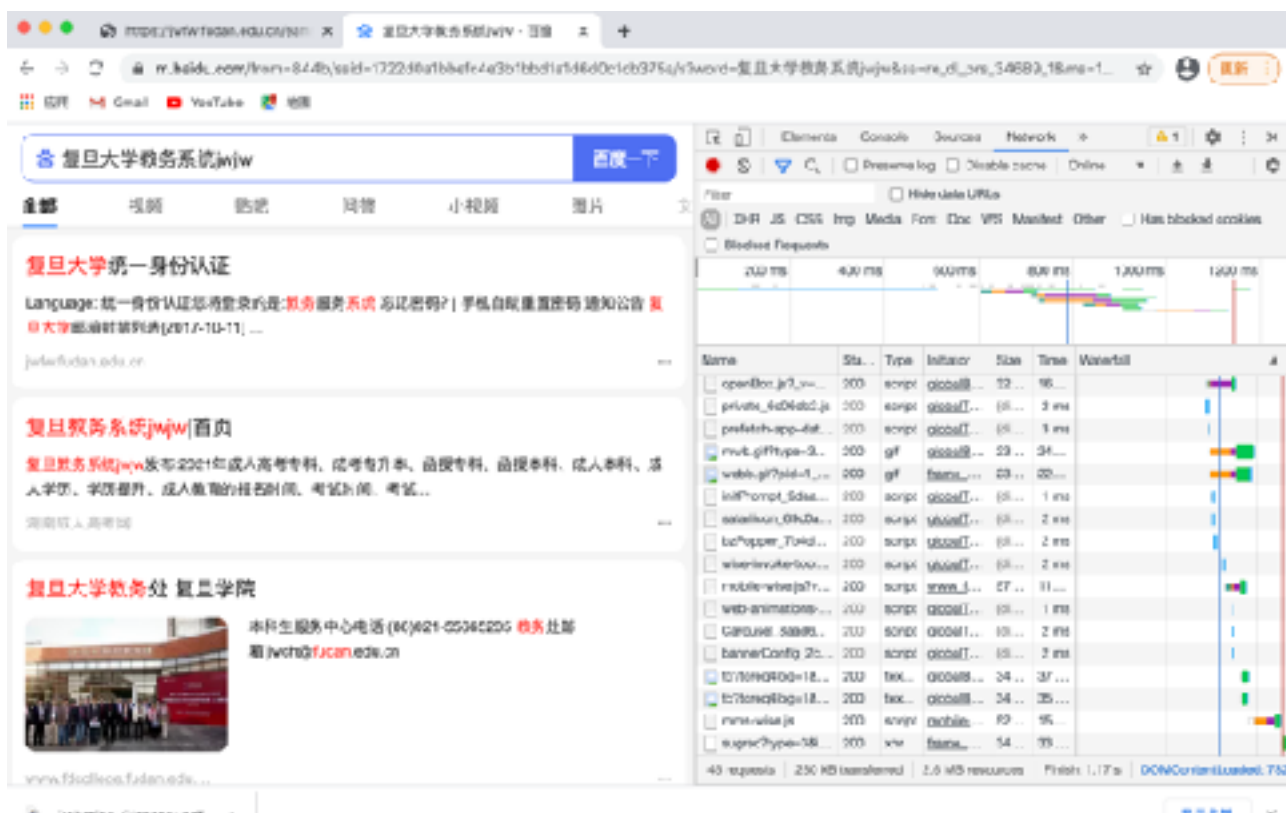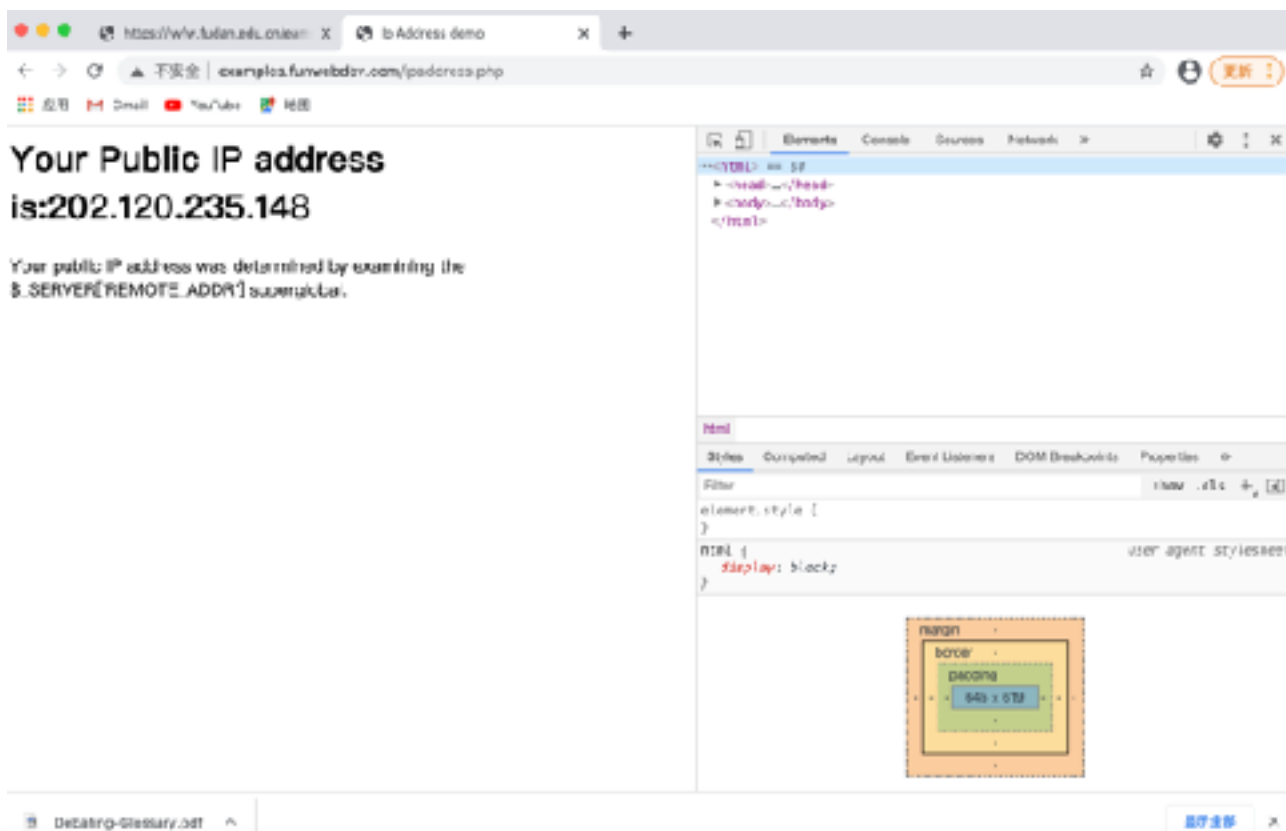
分析一个网页的组成部分

域名服务器 (Name server)

查询 baidu.com 的 A 地址记录截图

```
Last login: Mon Mar 15 16:16:10 on ttys000
penguindeMacBook-Pro:~ penguinaugustus$ nslookup baidu.com
Server:         8.8.8.8
Address:        8.8.8.8#53

Non-authoritative answer:
Name:   baidu.com
Address: 220.181.38.148
Name:   baidu.com
Address: 39.156.69.79
```

使用授权服务器查询 baidu.com 的 IP 地址的截图

```
penguindeMacBook-Pro:~ penguinaugustus$ nslookup baidu.com ns2.baidu.com
Server:         ns2.baidu.com
Address:        220.181.33.31#53

Name:   baidu.com
Address: 39.156.69.79
Name:   baidu.com
Address: 220.181.38.148
```

查询 baidu.com 的 域名服务器截图

```
Last login: Tue Mar 16 10:33:34 on ttys000
penguindeMacBook-Pro:~ penguinaugustus$ nslookup -type=ns baidu.com
Server:         202.120.224.26
Address:        202.120.224.26#53

Non-authoritative answer:
baidu.com       nameserver = ns2.baidu.com.
baidu.com       nameserver = ns3.baidu.com.
baidu.com       nameserver = ns4.baidu.com.
baidu.com       nameserver = ns7.baidu.com.
baidu.com       nameserver = dns.baidu.com.

Authoritative answers can be found from:
dns.baidu.com   internet address = 110.242.68.134
ns2.baidu.com   internet address = 220.181.33.31
ns3.baidu.com   internet address = 112.80.248.64
ns4.baidu.com   internet address = 14.215.178.80
ns7.baidu.com   internet address = 180.76.76.92
```

观察 HTTP 标头 (HTTP headers)

追踪数据包 (Tracing a packet)

跟踪一个从你的计算机发往 microsoft.com 的数据包

利用 whois 查询 tencent.com 的相关信息

```
Domain Name: tencent.com
Registry Domain ID: 3216896_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.markmonitor.com
Registrar URL: http://www.markmonitor.com
Updated Date: 2021-03-02T19:06:11-0800
Creation Date: 1998-09-13T21:00:00-0700
Registrar Registration Expiration Date: 2030-09-12T21:00:00-0700
Registrar: MarkMonitor, Inc.
Registrar IANA ID: 292
Registrar Abuse Contact Email: abusecomplaints@markmonitor.com
Registrar Abuse Contact Phone: +1.2083895770
Domain Status: clientUpdateProhibited (https://www.icann.org/epp#clientUpdateProhibited)
Domain Status: clientTransferProhibited (https://www.icann.org/epp#clientTransferProhibited)
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#serverTransferProhibited)
Domain Status: serverDeleteProhibited (https://www.icann.org/epp#serverDeleteProhibited)
Registrant Organization: Tencent Technology (shenzhen) Co.Ltd.
Registrant State/Province: Guang Dong
Registrant Country: CN
Registrant Email: Select Request Email Form at https://domains.markmonitor.com/whois/tencent.com
Admin Organization: Tencent Technology (shenzhen) Co.Ltd.
Admin State/Province: Guang Dong
Admin Country: CN
Admin Email: Select Request Email Form at https://domains.markmonitor.com/whois/tencent.com
Tech Organization: Tencent Technology (shenzhen) Co.Ltd.
Tech State/Province: Guang Dong
Tech Country: CN
Tech Email: Select Request Email Form at https://domains.markmonitor.com/whois/tencent.com
Name Server: ns3.qq.com
Name Server: ns2.qq.com
Name Server: ns4.qq.com
Name Server: ns1.qq.com
DNSSEC: unsigned
URL of the ICANN WHOIS Data Problem Reporting System: http://wdprs.internic.net/
>>> Last update of WHOIS database: 2021-03-11T00:17:49-0800 <<<
```