# 1. 针对任意网页,调研其不同请求

下面以光明网为例进行调研 https://www.gmw.cn/

### 1.1 GET 请求

在网站中对这张图片的请求就是 GET 请求



# 请求 URL: https://ad.gmw.cn/attachement/jpg/site2/20

请求方法: GFT

**状态代码: ◎** 200 OK (来自内存缓存)

远程地址: 111.31.16.75:443

引用站点策略: strict-origin-when-cross-origin

# 与之对应的数据包:

#### ▼ 响应头 Accept-Ranges: bytes

Age: 1

Cache-Control: max-age=7776000

Content-Length: 11710

Content-Type: image/jpeg Date: Mon, 22 Nov 2021 16:02:40 GMT

ETag: "60fe12a8-2dbe"

Expires: Tue, 30 Nov 2021 07:08:13 GMT

Last-Modified: Mon, 26 Jul 2021 01:40:56 GMT

Via: 1.1 ID-5301755310536644 uproxy-5

X-Via: 1.1 sx93:4 (Cdn Cache Server V2.0), 1.1 dong58:13 (Cdn Cache Server V2.0)

X-Ws-Request-ld: 619bbf20\_jinyidong59\_78134-40433

#### ▼ 请求标头

#### ▲ 显示临时标头。禁用缓存以查看完整的标头。 <u>了解详细信息</u>

Referer: https://ad.gmw.cn/html/indexbanner\_300\_3.htm

sec-ch-ua: " Not A;Brand";v="99", "Chromium";v="96", "Microsoft Edge";v="96"

sec-ch-ua-mobile: ?0

sec-ch-ua-platform: "Windows"

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, li

96.0.4664.55 Safari/537.36 Edg/96.0.1054.34

#### 2.2 POST 请求

# 此处即为 POST 请求

请求 URL: https://www.google-analytics.com/j/collect?v=1&\_v=j96&a=1451915313&t=pageview&\_s=1&dl=http s%3A%2F%2Fwww.gmw.cn%2F&ul=zh-cn&de=UTF-8&dt=%E5%85%89%8E%E7%BD%91\_%E6%96%B0%E9%97%BB%E8%A7%8 6%E9%87%8E%E3%80%81%E6%96%87%E5%8C%96%E8%A7%86%E8%A7%92%E3%80%81%E6%80%9D%E6%83%B3%E6%B7%B1%E5%BA%A 6%E3%80%81%E7%90%86%E8%AE%BA%E9%AB%98%E5%BA%A6&sd=24-bit&sr=1536x864&yp=565x705&je=0& u=AACAAEABAAA AAC~&jid=&gjid=&cid=808719896.1636608070&tid=UA-20947729-1&\_gid=1190196091.1636816550&\_slc=1&z=1497 629962

请求方法: POST

状态代码: ◎ 200

远程地址: 120.253.253.225:443

引用站点策略: strict-origin-when-cross-origin

# 与之对应的数据包:

#### ▼ 响应头

#### access-control-allow-credentials: true

access-control-allow-origin: https://www.gmw.cn

alt-svc: h3=":443"; ma=2592000,h3-29=":443"; ma=2592000,h3-Q050=":443"; ma=2592000,h3-Q046=":443"; ma

=2592000,h3-Q043=":443"; ma=2592000,quic=":443"; ma=2592000; v="46,43" cache-control: no-cache, no-store, must-revalidate

content-length: 2

content-type: text/plain

cross-origin-resource-policy: cross-origin

date: Thu, 25 Nov 2021 11:38:38 GMT

expires: Fri, 01 Jan 1990 00:00:00 GMT last-modified: Sun, 17 May 1998 03:00:00 GMT

pragma: no-cache

server: Golfe2

 ${\bf x}\text{-}{\bf content}\text{-}{\bf type}\text{-}{\bf options:}$  nosniff

#### ▼ 请求标头

:authority: www.google-analytics.com

:path: /j/collect?v=1&\_v=j96&a=1451915313&t=pageview&\_s=1&dl=https%3A%2F%2Fwww.gmw.cn%2F&ul=zh-cn&de =UTF-8&dt=%E5%85%89%E6%98%8E%E7%BD%91\_%E6%96%B0%E9%97%BB%E8%A7%86%E9%87%8E%E3%80%81%E6%96%87%E5%8C% 96%E8%A7%86%E8%A7%92%E3%80%81%E6%80%9D%E6%83%B3%E6%B7%B1%E5%BA%A6%E3%80%81%E7%90%86%E8%AE%BA%E9%AB% ¬

- 2. 针对任意网页,使用 Jquery, 能够触发某一事件。
  - 2.1 先引入 Jquery 库

https://s3.pstatp.com/cdn/expire-1-M/jquery/3.2.1/jquery.min.js

将该网址中的内容全部复制,并在浏览器控制台中运行,如果结果为 true 则引

入成功

```
define&&det
a.$===r&&(&
< true
```

2.2 在命令行中输入\$("a"),按下回车

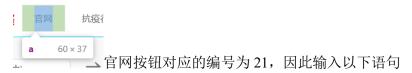
```
▶ 18: a
▶ 19: a
▶ 20: a
▶ 21: a
▶ 22: a.language-btn.select-from-language
▶ 23: a.language-btn-disable.from-to-exchange
▶ 24: a.language-btn.select-to-language
▶ 24: a.language-btn.select-to-language
▶ 25: a#translate-button.trans-btn.trans-btn-zh
▶ 26: a.manual-trans-btn
▶ 27: a.know-btn
▶ 28: a.doc-trans-btn
▶ 29: a.collection-btn.data-hover-tip.new-edition-tip
▶ 30: a.setting-btn.data-hover-tip.new-edition-tip
▶ 31: a.textarea-clear-btn
▶ 32: a.operate-btn.op-sound.data-hover-tip
▶ 33: a.operate-btn.op-favo.data-hover-tip
▶ 34: a.close-input-coll-group
▶ 35: a.add-new-group
■ 36: a.new-group-confirm.disabled-new-group-confirm
■ 37: a.history-item
■ 38: a.history-item
■ 39: a.history-item
■ 40: a.history-item
■ 41: a.history-item
■ 42: a.history-item
■ 43: a.history-item
```

获得当前页面按钮的编号

2.3 第一条语句:翻译历史记录中的第一条可以看到对应的编号为37 因此输入命令: \$("a")[37].click()



2.4 第二条语句: 打开百度翻译官网



> \$("a")[21].click()

# 成功打开



2.5 第三条语句: 翻译 "hello world"

输入命令:

> \$(".textarea").val("hello world");\$("a")[25].click();

成功触发翻译



# 3.完成一个浏览器插件,功能不限

3.1 功能: 我每次吃饭总是会犹豫吃什么,因此该插件的功能就是打开百度后,会 先弹窗提醒我们要吃饭,然后会把"百度一下"这个按钮变成一道菜名作为推荐。



3.2 代码如下 manifest.json

```
{
    "name": "互联网数据库开发个人作业 3",
    "manifest_version": 2,
    "version": "1.0",
    "description": "好好吃饭",
```

```
"browser_action": {
    "default_icon": "./icon.jpg"
},
    "content_scripts": [
      {
        "matches": ["https://www.baidu.com/"],
        "js": ["script.js"]
      }
    ]
}
```

script.js

```
alert("吃了吗您?");
var arr=["红烧肉","锅包肉","油闷大虾","番茄炒蛋","肉末茄子","火锅","清蒸南瓜"]
var index=parseInt(Math.random()*arr.length)
document.getElementById("su").value=arr[index];
var objectdiv=document.getElementById('s_kw_wrap');
objectdiv.click();
```