分析HTTP请求和响应数据

打开淘宝和京东主页，分别在搜索关键字输入“耳机”，点击搜索按钮，分析浏览器发送给服务器的请求内容和响应结果，完成下面的报告。

1、分析搜索逻辑是由哪个服务链接或者页面完成，如果有多个请分别列出，并且将发送到服务器的数据以列表方式进行说明。

（1）京东的搜索逻辑由服务链接<https://misc.360buyimg.com、https://search.jd.com>等完成。

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| --- | --- | --- |
| 名称 | 取值 | 作用 |
| keyword | %E8%80%B3%E6%9C%BA | 关键词为“耳机” |
| enc | utf-8 | 字符编码为utf-8 |
| pvid | c2dd745b1eef4a6eaaa218e66216a456 | 标识端口接收到的未标记的帧 |

（2）淘宝的搜索逻辑由服务链接<https://s.taobao.com、https://g.alicdn.com、https://gm.mmstat.com>等完成。

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| --- | --- | --- |
| 名称 | 取值 | 作用 |
| q | %E8%80%B3%E6%9C%BA | 关键词为“耳机” |
| imgfile |  | 上传图片 |
| commend | all | 显示所有tab |
| ssid | s5-e | 服务集标识符 |
| search\_type | item | 搜索类型 |
| sourceId | tb.index | 源id |
| spm | a21bo.2017.201856-taobao-item.1 | 获取用户行为 |
| ie | utf8 | 字符编码 |
| initiative\_id | tbindexz\_20170306 | 内部参数 |

2、分析服务器的响应结果，数据的格式、数据的类型以及呈现方式。

（1）京东服务器响应结果：

|  |  |  |
| --- | --- | --- |
| 名称 | 数据格式 | 数据类型 |
| https://search.jd.com/Search?keyword=%E8%80%B3%E6%9C%BA&enc=utf-8&pvid=c2dd745b1eef4a6eaaa218e66216a456 | html | Doc |
| https://search.jd.com/im.php?r=1871244261&t=1570533490.6844&cs=35aa88d53f81aa4ab69fee39985ad060 | php | XHR |
| https://blackhole.m.jd.com/getinfo | html | XHR |
| https://search.jd.com/attrlog.php | php | XHR |
| https://gia.jd.com/fcf.html?a=7TJI7TceW0Pu7Tce7TZ37Tce7Tce7T7L7TcezlP47Tce7TZ37Tce7Tce7T7L7TceWIAewGAB6SAewdwPwHcPw4wPwH7QWIAewGAB6SAewH3PiQ%3CliH%3CDFgweZBAtZQiEF06\*ZH4DFLWlwlAEZBa\*7Tce7T7L7TceJGAewGAB6SAewHcuZIDxwIDx7Tce7T7L7TceFGAewGAB6SAewH%3CPwHcPw4wPwH7X7Tce7TZ37TceWlfbWQZovQp4vQZXzSAeRPZPih7HyIAewGAe6eAewdNB7Tce7TZ37TceylfEJl9eFIABRIAeZAAD7TckOL2PwHfIweAeZAAl7TckOAwPwHfI6SAeZQfuieABR1fjFGjD7TclJt%3CPwj6PwHfNOIAeZTa\*7Tck6HwPwHfNZGAeZTPL7Tck64%3CPwHF\*JQP47TZ%3CwLNPFLFQw0fbFQckZL7HiHPbFL%3CkwHFGO0NQw0wDFTaPwHcPw4wPwH7QieAewGAB6SAewPN5S4ETAPFhfjC6AHfT6jJ%3CSkFyZHZc6PPSS%3CRhfN76RPbTA4FTff3vR4phRfZg6TJLT49yS4p6AkAjAf3gZ4JTSf4kgAkFSPRSABR5R%3CE0fH7i6kRAgA6BTSAewGAe6eAewd6PwHcPwj%3CPwHclT%3CE%3CRkNAgHRhANoeTBf1RHRIwkJySff7T4FFTP7KZHwlSB6BwH7RgfZ7Afb%3Cfjx1R4akZBF7TjZFZf2lSN4jTAFSZA9LZH6jTNwlwGAewGAe6eAewdNp7Tce7TZ37Tce7Tce7TJ%3C/ | html | XHR |

①https://search.jd.com/Search?keyword=%E8%80%B3%E6%9C%BA&enc=utf-8&pvid=c2dd745b1eef4a6eaaa218e66216a456

|  |  |  |
| --- | --- | --- |
| 名称 | 取值 | 作用 |
| https | / | 超文本传输协议 |
| search.jd.com | / | 搜索 |
| keyword | %E8%80%B3%E6%9C%BA | 搜索关键词为“耳机” |
| enc | utf-8 | 字符编码为utf-8 |
| pvid | c2dd745b1eef4a6eaaa218e66216a456 | 标识端口接收到的未标记的帧 |

②https://search.jd.com/im.php?r=1871244261&t=1570533490.6844&cs=35aa88d53f81aa4ab69fee39985ad060

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| --- | --- | --- |
| 名称 | 取值 | 作用 |
| r | 1871244261 | 重定向 |
| t | 1570533490.6844 | 时间 |
| cs | 35aa88d53f81aa4ab69fee39985ad060 | 客户端/服务器架构 |

③https://blackhole.m.jd.com/getinfo

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| --- | --- |
| 名称 | 作用 |
| blackhole.m.jd.com | 京东移动端 |
| getinfo | 获取信息 |

④https://search.jd.com/attrlog.php

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| --- | --- |
| 名称 | 作用 |
| attrlog.php | / |

⑤https://gia.jd.com/fcf.html?a=7TJI7TceW0Pu7Tce7TZ37Tce7Tce7T7L7TcezlP47Tce7TZ37Tce7Tce7T7L7TceWIAewGAB6SAewdwPwHcPw4wPwH7QWIAewGAB6SAewH3PiQ%3CliH%3CDFgweZBAtZQiEF06\*ZH4DFLWlwlAEZBa\*7Tce7T7L7TceJGAewGAB6SAewHcuZIDxwIDx7Tce7T7L7TceFGAewGAB6SAewH%3CPwHcPw4wPwH7X7Tce7TZ37TceWlfbWQZovQp4vQZXzSAeRPZPih7HyIAewGAe6eAewdNB7Tce7TZ37TceylfEJl9eFIABRIAeZAAD7TckOL2PwHfIweAeZAAl7TckOAwPwHfI6SAeZQfuieABR1fjFGjD7TclJt%3CPwj6PwHfNOIAeZTa\*7Tck6HwPwHfNZGAeZTPL7Tck64%3CPwHF\*JQP47TZ%3CwLNPFLFQw0fbFQckZL7HiHPbFL%3CkwHFGO0NQw0wDFTaPwHcPw4wPwH7QieAewGAB6SAewPN5S4ETAPFhfjC6AHfT6jJ%3CSkFyZHZc6PPSS%3CRhfN76RPbTA4FTff3vR4phRfZg6TJLT49yS4p6AkAjAf3gZ4JTSf4kgAkFSPRSABR5R%3CE0fH7i6kRAgA6BTSAewGAe6eAewd6PwHcPwj%3CPwHclT%3CE%3CRkNAgHRhANoeTBf1RHRIwkJySff7T4FFTP7KZHwlSB6BwH7RgfZ7Afb%3Cfjx1R4akZBF7TjZFZf2lSN4jTAFSZA9LZH6jTNwlwGAewGAe6eAewdNp7Tce7TZ37Tce7Tce7TJ%3C/

|  |  |  |
| --- | --- | --- |
| 名称 | 取值 | 作用 |
| gia.jd.com | / | / |
| a | 7TJI7TceW0Pu7Tce7TZ37Tce7Tce7T7L7TcezlP47Tce7TZ37Tce7Tce7T7L7TceWIAewGAB6SAewdwPwHcPw4wPwH7QWIAewGAB6SAewH3PiQ%3CliH%3CDFgweZBAtZQiEF06\*ZH4DFLWlwlAEZBa\*7Tce7T7L7TceJGAewGAB6SAewHcuZIDxwIDx7Tce7T7L7TceFGAewGAB6SAewH%3CPwHcPw4wPwH7X7Tce7TZ37TceWlfbWQZovQp4vQZXzSAeRPZPih7HyIAewGAe6eAewdNB7Tce7TZ37TceylfEJl9eFIABRIAeZAAD7TckOL2PwHfIweAeZAAl7TckOAwPwHfI6SAeZQfuieABR1fjFGjD7TclJt%3CPwj6PwHfNOIAeZTa\*7Tck6HwPwHfNZGAeZTPL7Tck64%3CPwHF\*JQP47TZ%3CwLNPFLFQw0fbFQckZL7HiHPbFL%3CkwHFGO0NQw0wDFTaPwHcPw4wPwH7QieAewGAB6SAewPN5S4ETAPFhfjC6AHfT6jJ%3CSkFyZHZc6PPSS%3CRhfN76RPbTA4FTff3vR4phRfZg6TJLT49yS4p6AkAjAf3gZ4JTSf4kgAkFSPRSABR5R%3CE0fH7i6kRAgA6BTSAewGAe6eAewd6PwHcPwj%3CPwHclT%3CE%3CRkNAgHRhANoeTBf1RHRIwkJySff7T4FFTP7KZHwlSB6BwH7RgfZ7Afb%3Cfjx1R4akZBF7TjZFZf2lSN4jTAFSZA9LZH6jTNwlwGAewGAe6eAewdNp7Tce7TZ37Tce7Tce7TJ%3C/ | / |

（2）淘宝服务器响应结果：

|  |  |  |
| --- | --- | --- |
| 名称 | 数据格式 | 数据类型 |
| https://s.taobao.com/search?q=%E8%80%B3%E6%9C%BA&imgfile=&commend=all&ssid=s5-e&search\_type=item&sourceId=tb.index&spm=a21bo.2017.201856-taobao-item.1&ie=utf8&initiative\_id=tbindexz\_20170306 | html | doc |
| https://www.taobao.com/markets/search/search-suggest-history-iframe | html | doc |
| https://g.alicdn.com/alilog/oneplus/blk.html | html | doc |

①https://s.taobao.com/search?q=%E8%80%B3%E6%9C%BA&imgfile=&commend=all&ssid=s5-e&search\_type=item&sourceId=tb.index&spm=a21bo.2017.201856-taobao-item.1&ie=utf8&initiative\_id=tbindexz\_20170306

|  |  |  |
| --- | --- | --- |
| 名称 | 取值 | 作用 |
| https |  | 超文本传输协议 |
| s.taobao.com |  | 淘宝搜索 |
| q | %E8%80%B3%E6%9C%BA | 关键词为“耳机” |
| imgfile |  | 上传图片 |
| commend | all | 显示所有tab |
| ssid | s5-e | 服务集标识符 |
| search\_type | item | 搜索类型 |
| sourceId | tb.index | 源id |
| spm | a21bo.2017.201856-taobao-item.1 | 获取用户行为 |
| ie | utf8 | 字符编码 |
| initiative\_id | tbindexz\_20170306 | 内部参数 |

②https://www.taobao.com/markets/search/search-suggest-history-iframe

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| 名称 | 作用 |
| www.taobao.com | 淘宝网址 |
| markets | 市场 |
| search | 搜索 |
| search-suggest-history-iframe | 嵌入式框架 |

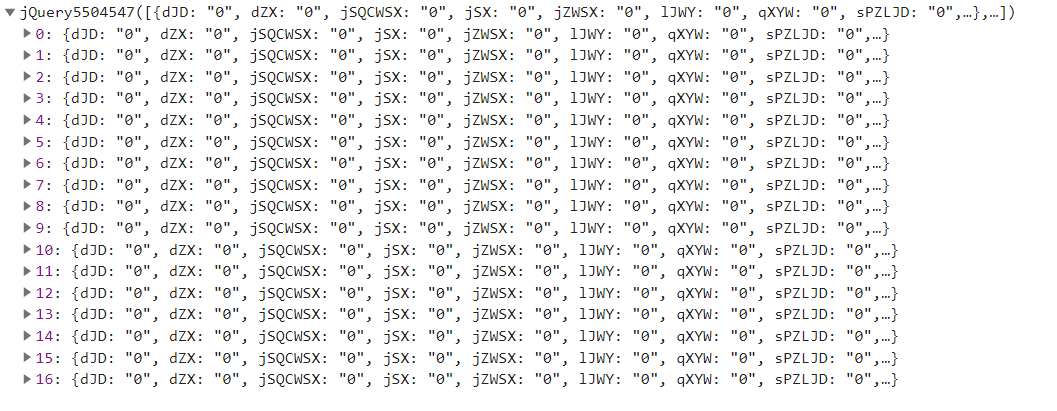
③https://g.alicdn.com/alilog/oneplus/blk.html

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| 名称 | 作用 |
| g.alicdn.com | 阿里云计算 |
| alilog | 阿里记录网站的访问和操作日志 |
| oneplus | 一加 |
| blk.html | 名为blk的html文件 |

3、对比淘宝和京东搜索功能的数据结构，请说明它们的区别和特点。

（1）京东搜索功能的数据结构为哈希表。

jquery数据。



（2）淘宝

jsonp数据。

