

*Fiddler*简明小手册

互动广告质量控制组

junewang



- 一、预热
- 二、Fiddler 是什么
- 三、通常怎么用Fiddler
- 四、脚本化、插件&更高级的东西
- 五、举个栗子吧。。

已知的web抓包&调试工具

- Firebug
- Httpwatch
- Web Developer
-
- 以上不多说，下面这个后面会提到
- Charles web debugging proxy

一、~~预热~~

二、Fiddler 是什么

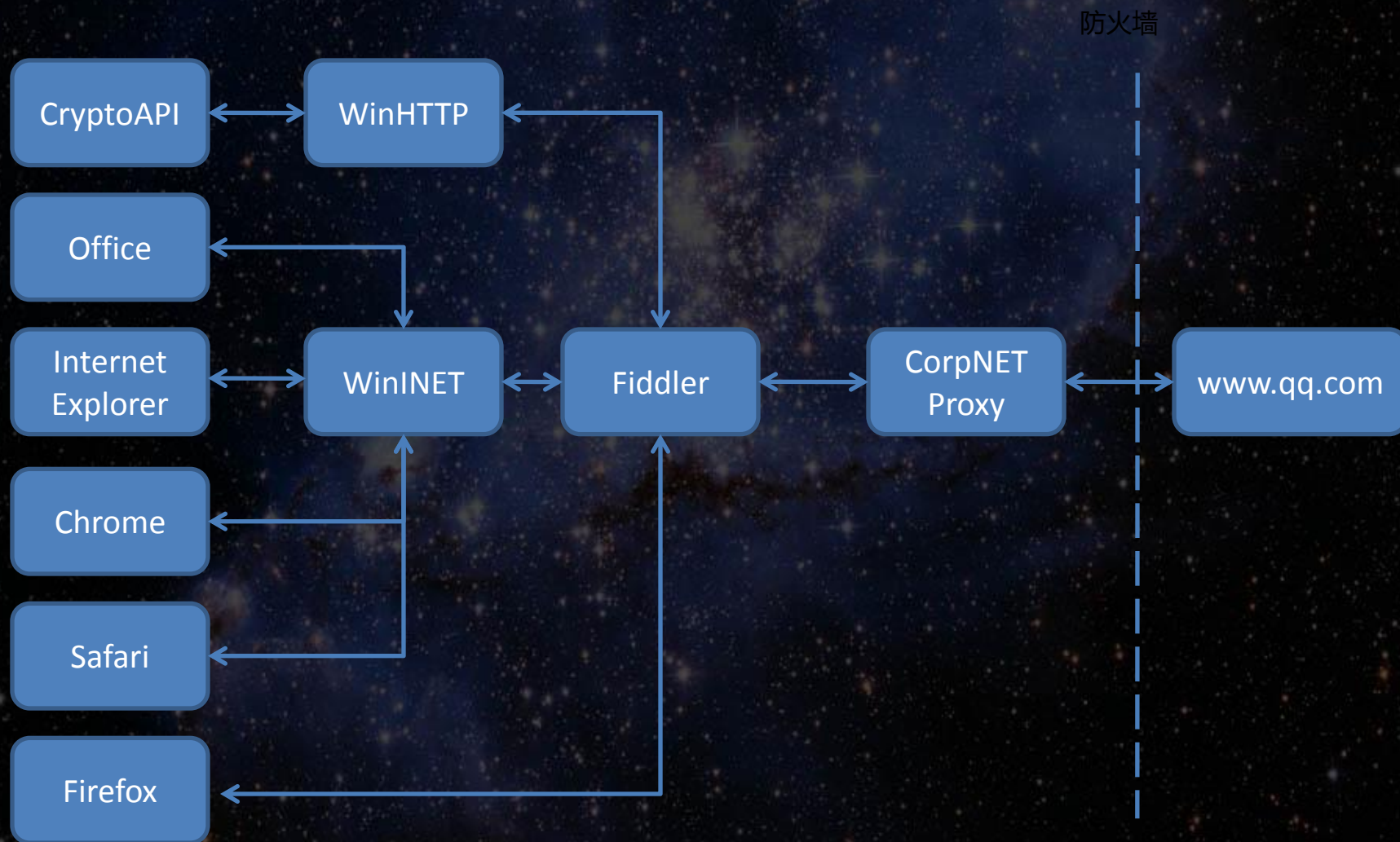
三、通常怎么用Fiddler

四、脚本化、插件&更高级的东西

五、举个栗子吧。。

什么是fiddler？

Fiddler—相当于虚拟的代理服务器，所有的网络传输都由此进出。





看不懂没关系，先来看图。。。。

Fiddler - HTTP Debugging Proxy

File Edit Rules Tools View Help neXpert Privacy ContentBlock

Replay X Resume Stream Decode Keep: All sessions Any Process Find Save Browse

#	Privacy Info	Process	Result	Protocol	Host	URL	Comments
509		chrome:4496	304	HTTP	mat1.gtimg.com	/www/iskin960/s01/skin_1.0.0...	
510		chrome:4496	304	HTTP	mat1.gtimg.com	/www/iskin09/nvbg1.png	
511		chrome:4496	304	HTTP	mat1.gtimg.com	/www/iskin960/tico.png	
512		chrome:4496	304	HTTP	mat1.gtimg.com	/www/iskin09/stockcard.png	
513		chrome:4496	304	HTTP	mat1.qq.com	/www/iskin/skin4/expo_line.gif	
514		chrome:4496	304	HTTP	mat1.gtimg.com	/finance/stock/images/smartbo...	
515		chrome:4496	304	HTTP	img1.gtimg.com	/news/pics/hv1/19/163/1017/6...	
516		chrome:4496	200	HTTP	mat1.qq.com	/weather/inc/minisite2_252.js?1...	
517		chrome:4496	200	HTTP	www.qq.com	/c/tuanshanghai.htm?0.205382...	
518		chrome:4496	304	HTTP	ptg.tc.qq.com	/qtuan/0/20111228174527-525...	
519		chrome:4496	304	HTTP	mat1.qq.com	/www/images/200801/wealth/m...	

FiddlerScript ☒ Filters Log Stave Timeline

Statistics Inspectors ☒ AutoResponder Composer neXpert Rules Differ Gallery

Request Count: 1
 Bytes Sent: 782 (headers:782; body:0)
 Bytes Received: 1,995 (headers:313; body:1,682)

ACTUAL PERFORMANCE

```

ClientConnected: 21:42:23.861
ClientBeginRequest: 21:42:24.330
GotRequestHeaders: 21:42:24.330
ClientDoneRequest: 21:42:24.330
Determine Gateway: 0ms
DNS Lookup: 0ms
TCP/TP Connect: 0ms
  
```

Show Chart

Capturing All Processes 1 / 92 http://www.qq.com/c/tuanshanghai.htm?0.2053823231253773

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512		chrome:4496	304	HTTP	mat1.gtimg.com	/www/iskin09/stockcard.png	
513		chrome:4496	304	HTTP	mat1.qq.com	/www/iskin/skin4/expo_line.gif	
514		chrome:4496	304	HTTP	mat1.gtimg.com	/finance/stock/images/smartbo...	
515		chrome:4496	304	HTTP	img1.gtimg.com	/news/pics/hv1/19/163/1017/6...	
516		chrome:4496	200	HTTP	mat1.qq.com	/weather/inc/minisite2_252.js?1...	
517		chrome:4496	200	HTTP	www.qq.com	/c/tuanshanghai.htm?0.205382...	
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515		chrome:4496	304	HTTP	mat1.qq.com	/news/pics/hv1/19/163/1017/6...	
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会话列表

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511		chrome:4496	304	HTTP	mat1.gtimg.com	/www/iskin960/tico.png	
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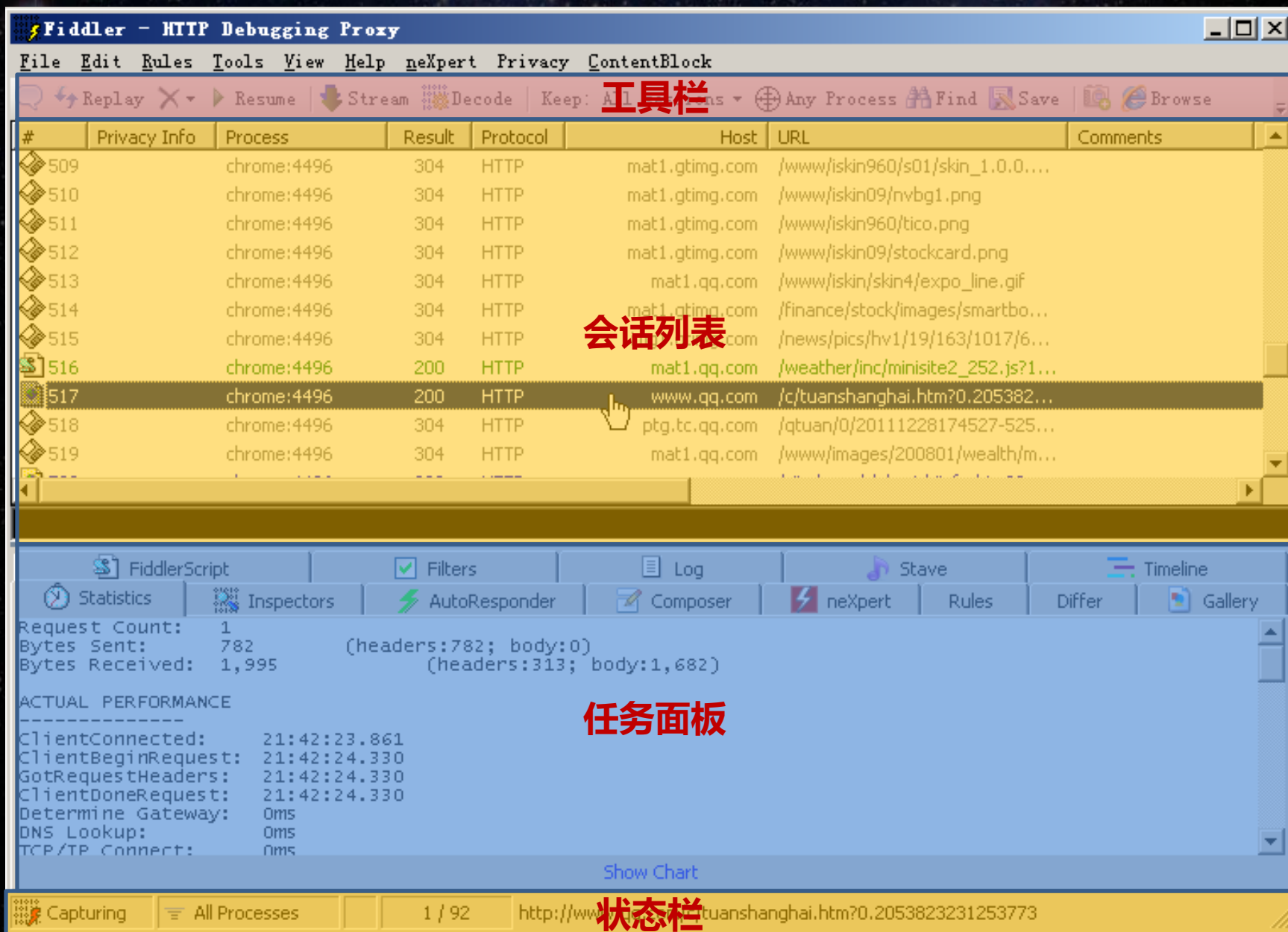
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任务面板

Show Chart

Capturing All Processes 1 / 92 http://www.qq.com/c/tuanshanghai.htm?0.2053823231253773





具体点吧。。。。

- Timeline—页面流量监控、分析
- Inspector--Session查看、修改
- AutoResponder--修改response
- Requestbuilder—修改request
- Filter—过滤session
- fiddlerScript—自定义脚本化扩展
- QuickExec -命令行辅助工具
- 设置断点，bpafter的应用
- 用c#编写的
- 它是免费的！！

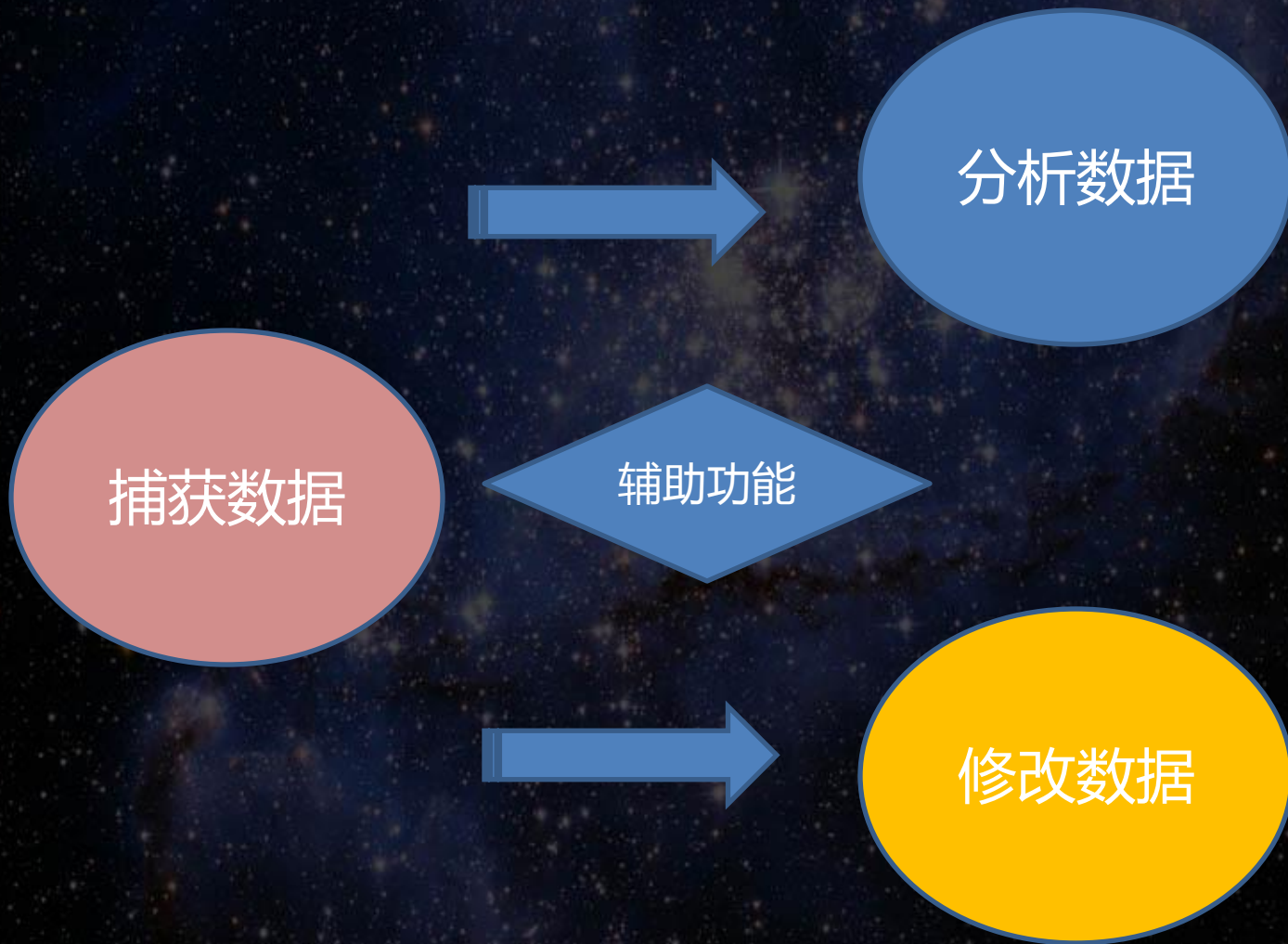
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有关数据捕获。。。通常会用到。。。。

断点(BreakPoint)

- 在请求发出到服务器前(Before Requests)或服务器响应请求后(After Responses)中断请求，并做相应的处理
- Rules -> Automatic Breakpoints -> Before Requests
- Rules -> Automatic Breakpoints -> After Responses
- 命令行：bpafter、bps、bpv、bpm、bpu

Filter过滤器

The screenshot shows a web browser's developer tools interface. On the left, a list of requests is displayed, including various resources from beat.qq.com and t.l.qq.com. The 'Request Headers' panel is open on the right, showing the 'Miscellaneous' tab. A red arrow points from the 'Referer' header value 'http://www.qq.com' in the 'Miscellaneous' section to the 'Set request header' checkbox in the 'Request Headers' panel.

Request	URL
beat.qq.com	/
beat.qq.com	/css/style.css
beat.qq.com	/_jsmin/b=js&f=jquery-1.4.4.min.js,swfobject...
ppmedia.qq.com	/media/jslib/src/loader.js
ppmedia.qq.com	/media/jslib/src/core.js
ppmedia.qq.com	/media/jslib/src/speed/mo2.js
ppmedia.qq.com	/media/jslib/src/auth/auth.js
ppmedia.qq.com	/media/jslib/src/utlis/utlis.js
ppmedia.qq.com	/media/jslib/src/verifycode/verifycode.js
beat.qq.com	/js/DD_belatedPNG_0.0.8a-min.js
beat.qq.com	/images/ico_code.jpg
beat.qq.com	/images/blank.gif
t.l.qq.com	/ping?t=m&cpid=641009589&url=http%3A//be...
dp3.qq.com	/play/?ua=ie6&domain=beat.qq.com&QosS=7...

Request Headers

GET / HTTP/1.1

Cache

Pragma: no-cache

Client

Accept: */*
Accept-Encoding: gzip, deflate
Accept-Language: zh-cn
User-Agent: Mozilla/4.0 (compatible...

Miscellaneous

Referer: http://www.qq.com

Transport

Connection: Keep-Alive
Host: beat.qq.com

Request Headers

☐ Show only if URL cc

☐ Flag requests with

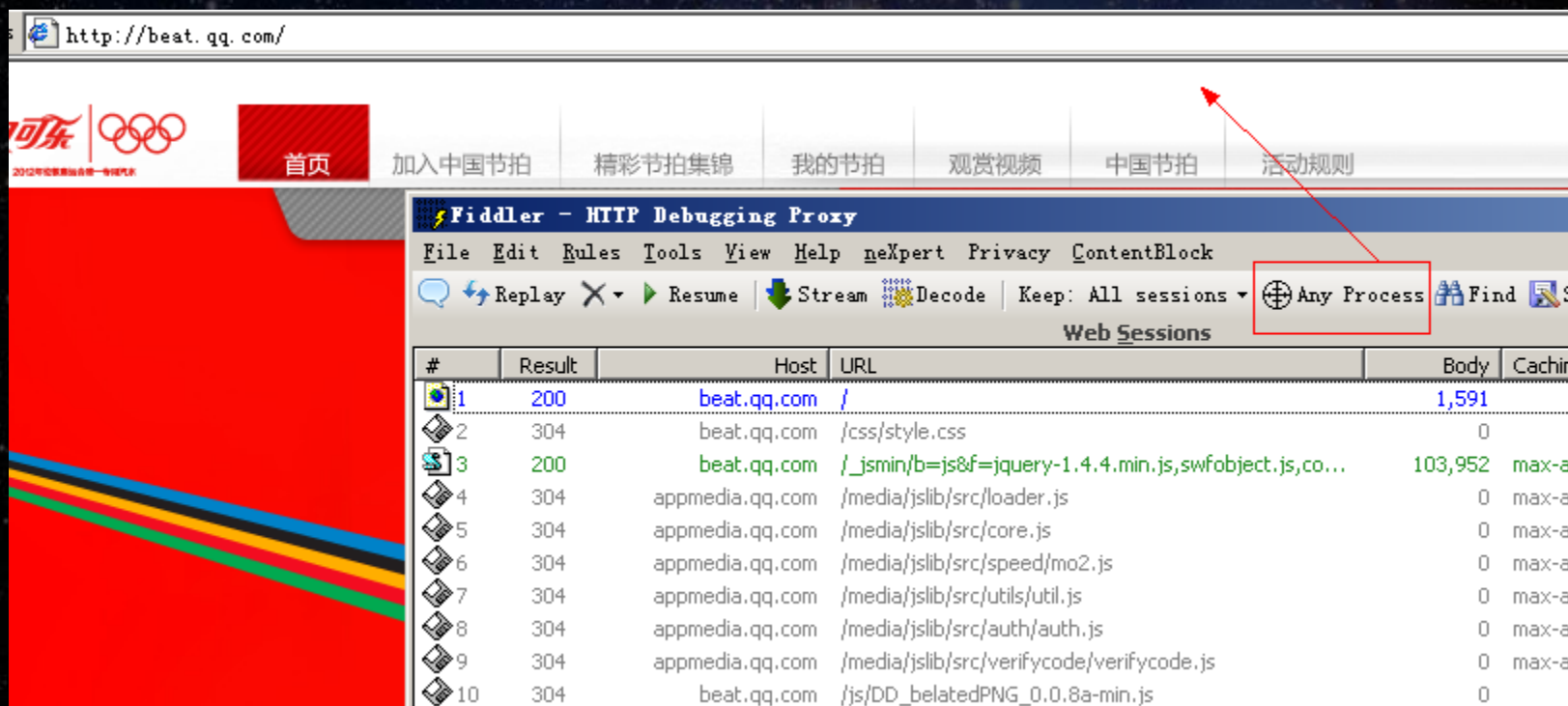
☐ Delete request header

☒ Set request header

Referer

http://www.qq.com

针对某一浏览器进程进行捕获



QuickExec - 命令行辅助工具

- 选择类 : *?text*、*>size*、*<size*、*=status*、*@host*、
- *blod text*、*select*、*allbut*、*keeponly*
- 断点类 : *bpafter*、*bps*、*bpv*、*bpm*、*bpu*
- 控制类 : *hide*、*start*、*stop*、*show*、*quit*
- 其他 : *cls/clear*、*dump*、*g/go*、*help*、*urlreplace*

- 光标移动快捷键 : ALT+Q


- <http://www.fiddler2.com/fiddler/help/quickexec.asp>
- (中文
<http://blog.csdn.net/spring21st/article/details/5843495>)

有关数据分析。。。通常会用到。。。。

不同的图标对应的数据类型和状态：

-  正在将请求数据发往服务器
-  正在从服务器下载返回数据
-  请求过程中暂停
-  返回过程中暂停
-  请求中使用了HTTP HEAD方法; 返回中应该没有body内容
-  请求中使用了HTTP CONNECT方法, 建立HTTPS连接通道
-  返回的内容类型是HTML
-  返回的内容类型是图片
-  返回的内容类型是Javascript
-  返回的内容类型是CSS
-  返回的内容类型是XML
-  普通的成功的返回
-  返回内容为 HTTP/300,301,302,303 or 307 跳转
-  返回内容为HTTP/304: 使用本地缓存
-  返回内容为一个证书请求
-  返回内容是服务器错误
-  请求被客户端、Fiddler或服务器中断

Session查找



The image shows a 'Find Sessions' dialog box with a blue title bar and a close button. It contains a 'Find:' text field with 'qqcomlogo.png'. Below is an 'Options' section with two dropdown menus: 'Search:' set to 'Requests and responses' and 'Examine:' set to 'Headers and bodies'. There are six checkboxes: 'Match case', 'Regular Expression', 'Search binaries', 'Decode compressed content', 'Search only selected sessions', and 'Select matches' (all unchecked). The 'Unmark old results' checkbox is checked. At the bottom is a 'Result Highlight:' dropdown set to 'Yellow'. Two buttons, 'Find Sessions' and 'Cancel', are at the bottom right.

Find Sessions

Find:

Options

Search:

Examine:

☐ Match case ☐ Regular Expression

☐ Search binaries

☐ Decode compressed content

☐ Search only selected sessions

☐ Select matches ☒ Unmark old results

Result Highlight:

各种session查看器

HTTP Compression

☐ No Compression

☒ GZIP Encoding

☐ DEFLATE Encoding

☐ BZIP2 Encoding

Response Headers

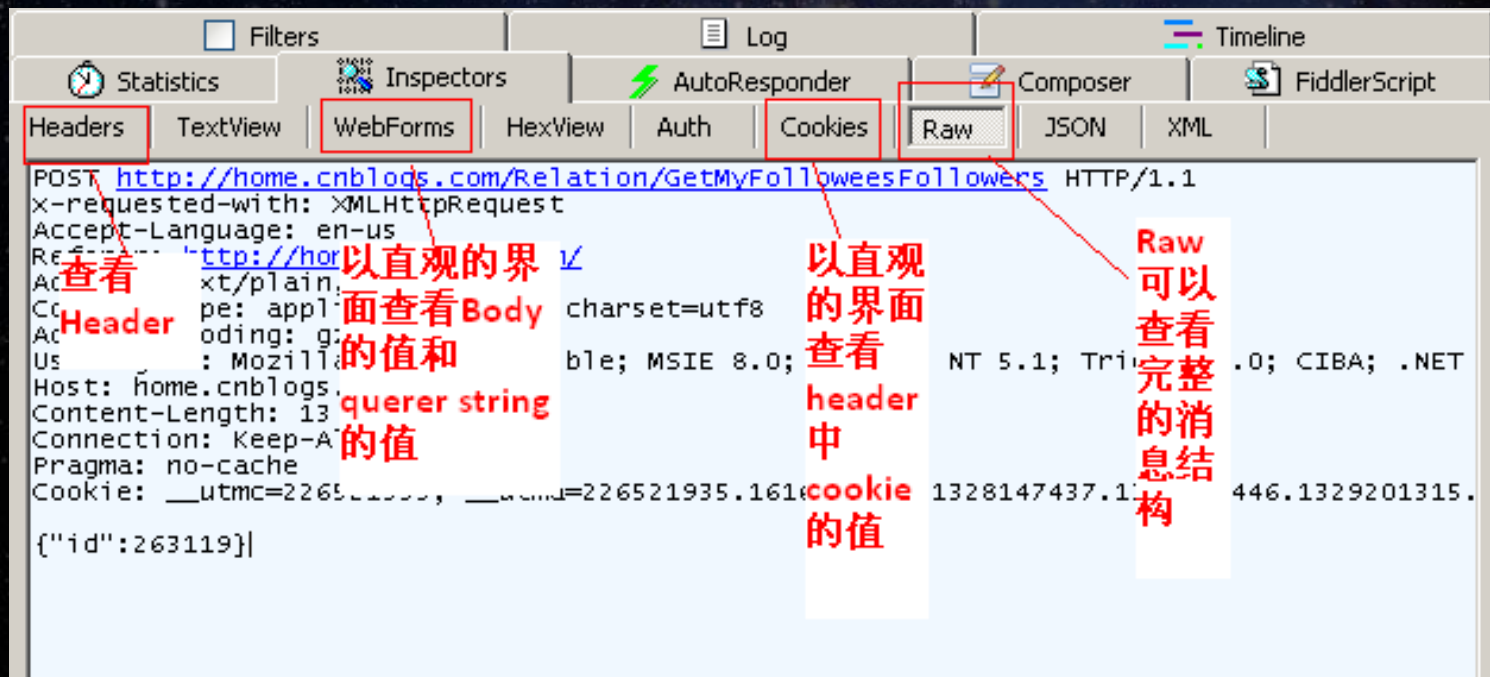
HTTP/1.1 200 OK

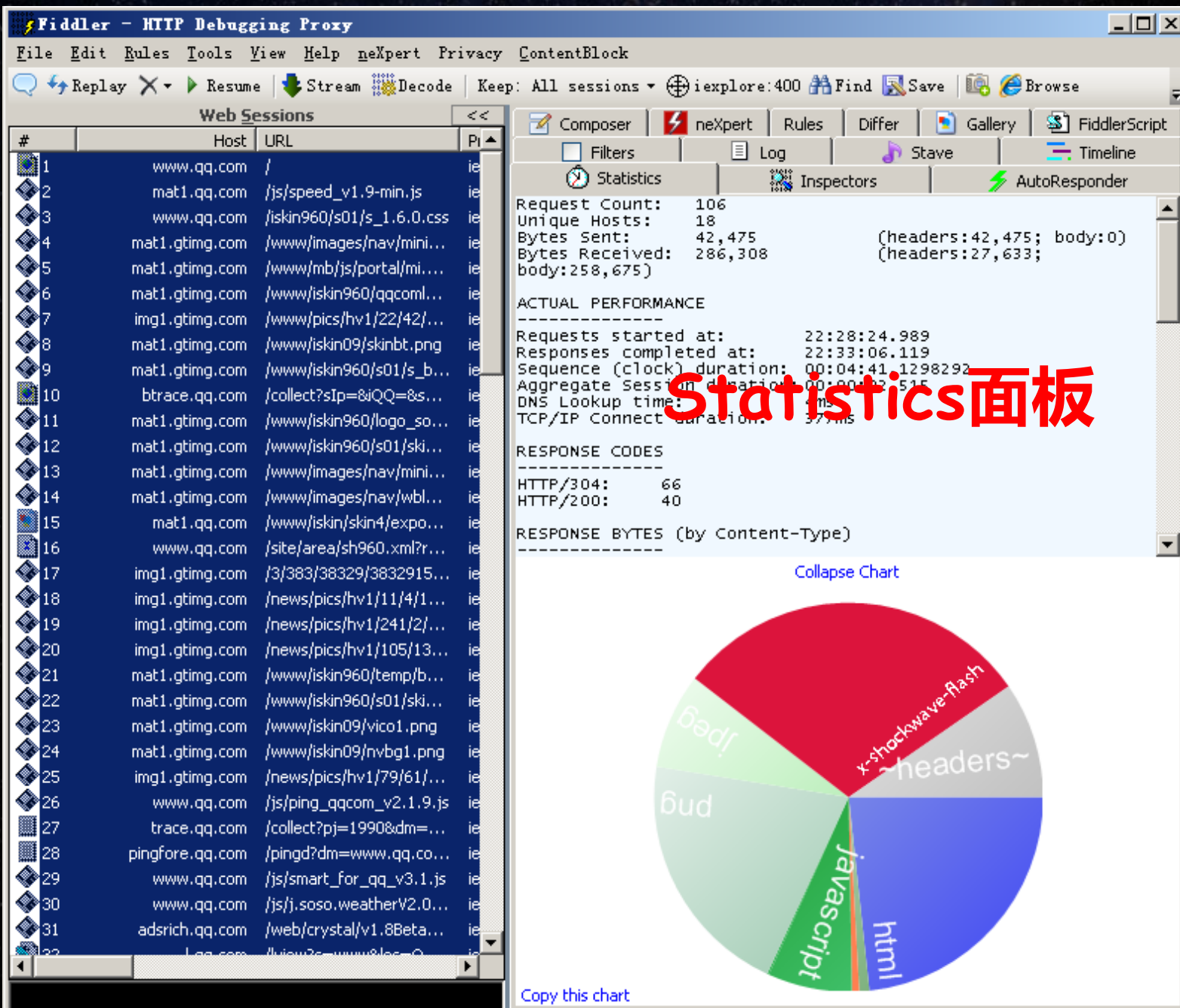
- Cache**
 - Cache-control: private
 - Date: Sat, 10 Oct 2009 20:46:27 GMT
- Entity**
 - Content-Length: 377
 - Content-Type: text/plain
- Miscellaneous**
 - MicrosoftOfficeWebServer: 5.0_Pub
 - Server: Microsoft-IIS/6.0
 - X-Powered-By: ASP.NET
- Transport**
 - Connection: Keep-Alive
 - Proxy-Connection: Keep-Alive
 - Via: 1.1 RED-PRXY-21

Transformer	Headers	TextView	SyntaxView	ImageView	HexView	WebView	Auth
4	<head>						
5	<link REL="StyleSheet" HREF="Bayden.css" TYPE="text/css">						
6							
7	<title>Bayden Systems</title>						
8							
9	<link REL="alternate" HREF="http://baydensystems.blogspot.com/atom.xml"						
10							
11							
12	</head>						
13	<body BGCOLOR="#FFFFFF" LEFTMARGIN="0" TOPMARGIN="0" MARGINHEIGHT="0" M						
14							
15	<!--Graphic Masthead-->						

00000000	48 54 54 50 2F 31 2E 31 20 32 30 30 20 4F 4B 0D	HTTP/1.1 200 OK.
00000010	0A 43 6F 6E 74 65 6E 74 2D 54 79 70 65 3A 20 74	.Content-Type: t
00000020	65 78 74 2F 68 74 6D 6C 0D 0A 43 61 63 68 65 2D	ext/html..Cache-
00000030	63 6F 6E 74 72 6F 6C 3A 20 70 72 69 76 61 74 65	control: private
00000040	0D 0A 43 6F 6E 74 65 6E 74 2D 4E 63 6F 64 69	..Content-Encodi
00000050	6E 67 3A 20 67 7A 69 70 0D 0A 0D 0A 1F 8B 08 00	ng: gzip.....
00000060	F1 F2 D0 4A 00 FF 95 58 6D 73 DB B8 11 FE EC 9B	ñòDJ.ÿ.XmsÛ,.pi.
00000070	B9 FF 80 E3 4D E2 76 6A 91 92 ED 9C 1D 5B 54 4E	ÿ.âMâvj..í..[TN
00000080	96 18 5B AD FC 72 92 AE 69 3F 65 20 12 22 51 93	..[-ür.öi?e."Q.

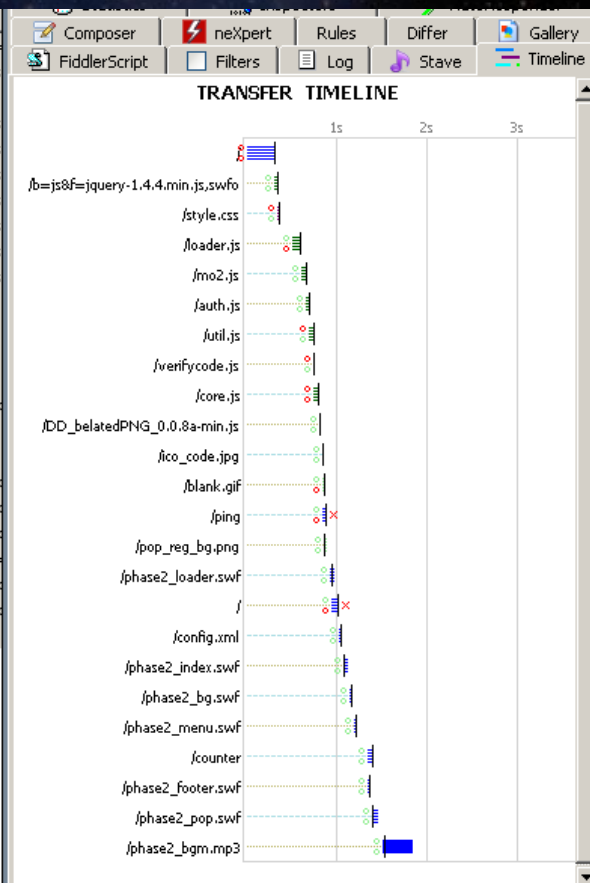
Inspectors面板





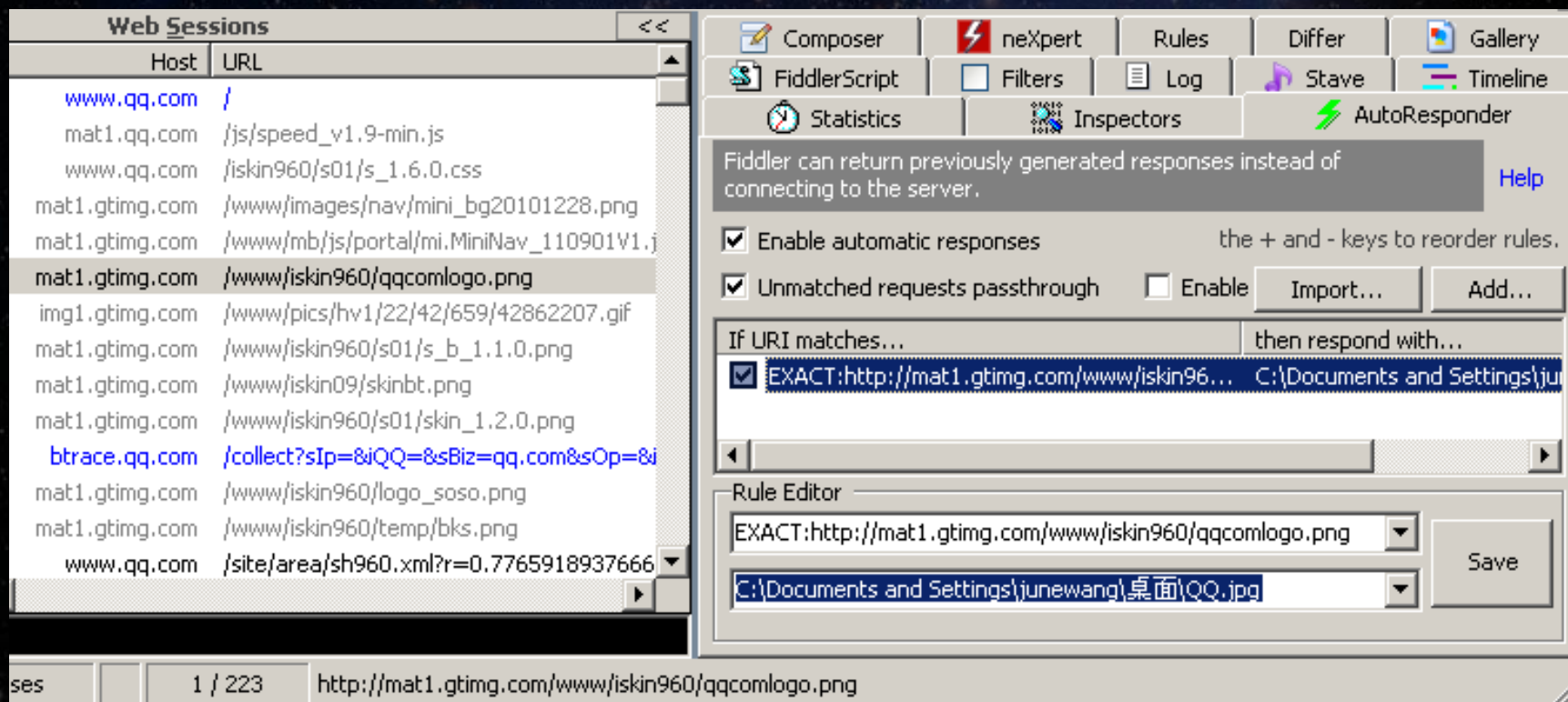
Timeline面板

#	Result	Host	URL	Body	Caching	Content-Type
1	200	beat.qq.com	/	1,591		text/html; charset=...
2	200	beat.qq.com	/_jsmin/b=js&f=jquery-1.4.4.min.js,swfobject.js,co...	103,952	max-age=18...	application/x-javas...
3	200	beat.qq.com	/css/style.css	18,593		text/css
4	200	appmedia.qq.com	/media/jslib/src/loader.js	6,850	max-age=36...	application/x-javas...
5	200	appmedia.qq.com	/media/jslib/src/speed/mo2.js	8,400	max-age=36...	application/x-javas...
6	200	appmedia.qq.com	/media/jslib/src/auth/auth.js	2,986	max-age=36...	application/x-javas...
7	200	appmedia.qq.com	/media/jslib/src/utlis/utli.js	9,436	max-age=36...	application/x-javas...
8	200	appmedia.qq.com	/media/jslib/src/verifycode/verifycode.js	8,617	max-age=36...	application/x-javas...
9	200	appmedia.qq.com	/media/jslib/src/core.js	2,510	max-age=36...	application/x-javas...
10	200	beat.qq.com	/js/DD_belatedPNG_0.0.8a-min.js	7,019		application/x-javas...
11	200	beat.qq.com	/images/ico_code.jpg	2,127		image/jpeg
12	200	beat.qq.com	/images/blank.gif	43		image/gif
13	200	t.l.qq.com	/ping?t=m&cpid=641009589&url=http%3A//beat.q...	0	no-cache,no-...	text/html;
14	200	beat.qq.com	/images/pop_reg_bg.png	124,649		image/png
15	200	beat.qq.com	/swf/phase2_loader.swf	150,552		application/x-shock...
16	200	dp3.qq.com	/play/?ua=ie6&domain=beat.qq.com&QosS=022275...	0	no-cache Ex...	text/html;
17	200	beat.qq.com	/xml/config.xml	2,263		application/xml
18	200	beat.qq.com	/swf/phase2_index.swf	406,296		application/x-shock...
19	200	beat.qq.com	/swf/phase2_bg.swf	105,707		application/x-shock...
20	200	beat.qq.com	/swf/phase2_menu.swf	63,818		application/x-shock...
21	200	beat.qq.com	/beat/counter	76		text/html; charset=...
22	200	beat.qq.com	/swf/phase2_footer.swf	22,481		application/x-shock...
23	200	beat.qq.com	/swf/phase2_pop.swf	265,076		application/x-shock...
24	200	beat.qq.com	/swf/phase2_bgm.mp3	3,291,872		audio/mpeg



有关数据修改。。。通常会用到。。。。

AutoResponder



Requestbuilder

Statistics

Inspectors

AutoResponder

Request Builder

Use this page to handcraft a HTTP Request. You can clone a prior request by dragging and dropping a session from the Web Sessions list.

Execute

ParsedRawOptions

POSThttp://www.debugtheweb.com/sandbox/FileForm.aspHTTP/1.1

Request Headers

Accept: image/gif, image/jpeg, application/x-shockwave-flash, image/pjpeg, application/>Referer: http://www.debugtheweb.com/sandbox/FileForm.aspAccept-Language: en-usUser-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.2; WOW64; Trident/4.0; dContent-Type: multipart/form-data; boundary=-----7d915e2b2790c26Accept-Encoding: gzip, deflateHost: www.debugtheweb.comContent-Length: 210260Proxy-Connection: Keep-AlivePragma: no-cacheCookie: ASPSESSIONIDCQACQATC=NCNEPAICNIACHOCKIHHBJONO

Request Body

-----7d915e2b2790c26Content-Disposition: form-data; name="1"1_-----7d915e2b2790c26Content-Disposition: form-data; name="fileentry"; filename="keep-wordpress-secure[1]"Content-Type: text/html<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org' type='text/javascript'%3E%3C/script%3E"));</script><script type="text/javascr.org/development/2003/04/welcome/" /><link rel="prev" title="WordPress 2.8.4: Securi lass="button" value="Go" /></form>

调试JS

The screenshot shows the Fiddler web proxy interface. On the left, a list of web sessions is displayed. A red box highlights the first session (ID 1) and a red arrow points to the 'Unlock for Editing' button. On the right, the 'AutoResponder' tab is selected, showing a list of rules. A red box highlights the first rule, and a red arrow points to the 'Edit' button. Below the AutoResponder tab, the 'Textview' tab is selected, showing the JavaScript code of the selected rule. A red box highlights the code, and a red arrow points to the 'Edit' button.

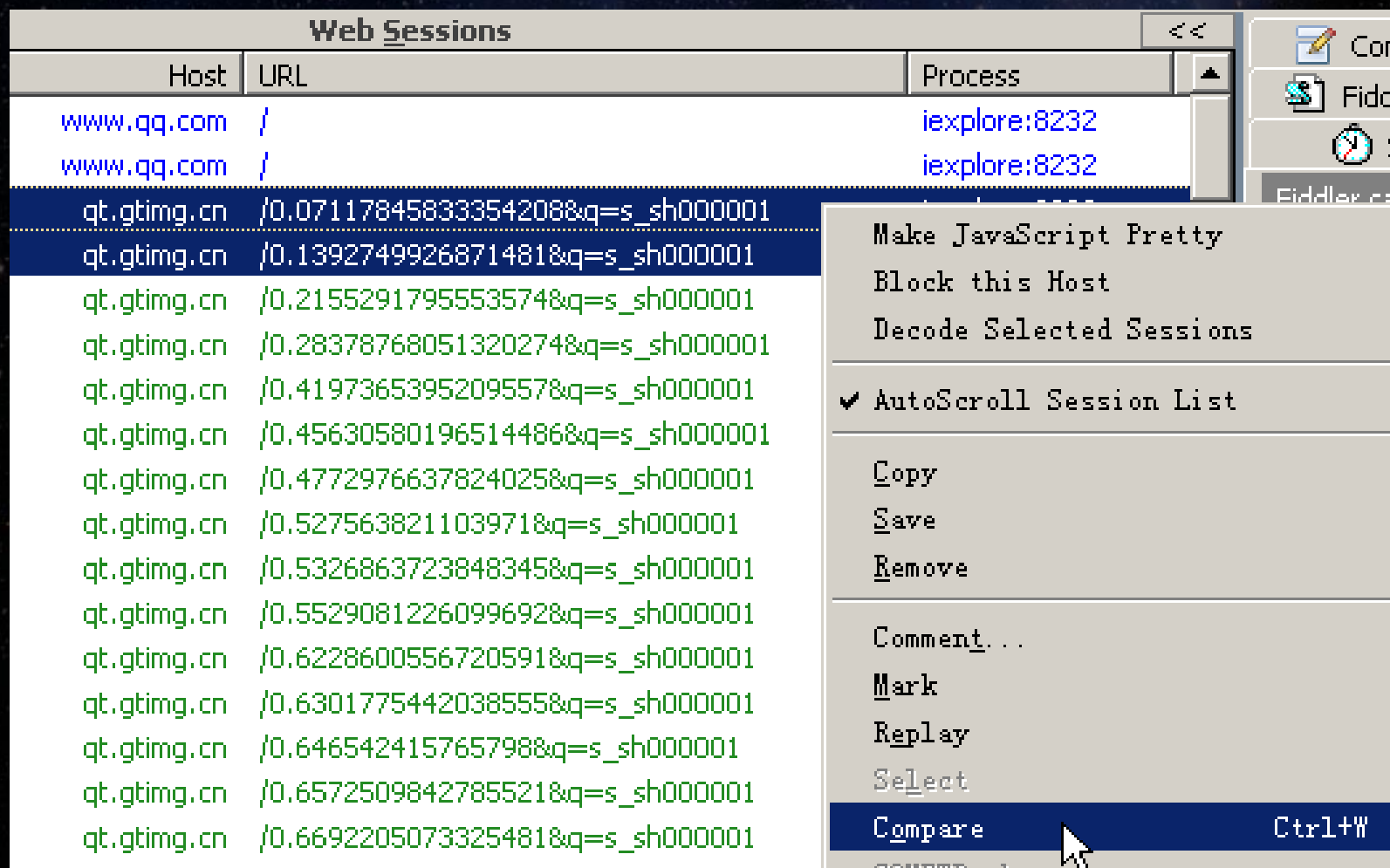
1. 右鍵 Unlock for Editing

3. 將 Session 拉到 AutoResponder 中

2. 修改已經抓回來的 JavaScript 內容

有关辅助功能。。。通常会用到。。。。

Session对比



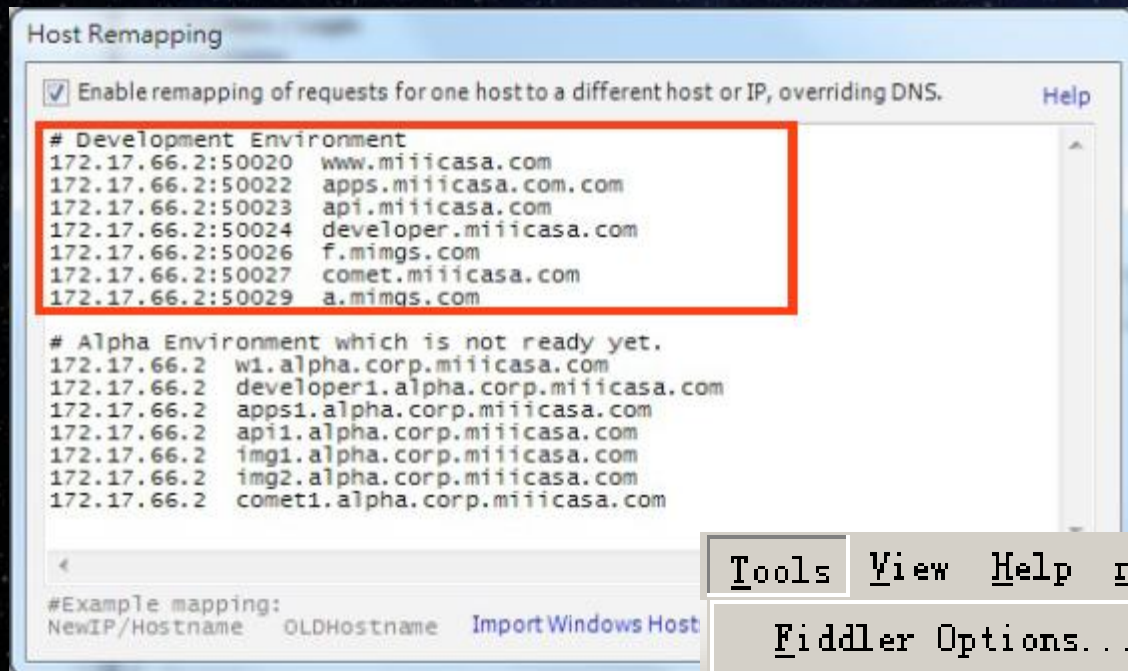
The screenshot shows the Fiddler Web Sessions window. The table lists sessions with columns for Host, URL, and Process. A context menu is open over the session list, showing various actions like 'Make JavaScript Pretty', 'Block this Host', 'Decode Selected Sessions', 'AutoScroll Session List', 'Copy', 'Save', 'Remove', 'Comment...', 'Mark', 'Replay', 'Select', 'Compare', and 'Ctrl+W'.

Host	URL	Process
www.qq.com	/	iexplore:8232
www.qq.com	/	iexplore:8232
qt.gtimg.cn	/0.07117845833354208&q=s_sh000001	
qt.gtimg.cn	/0.1392749926871481&q=s_sh000001	
qt.gtimg.cn	/0.2155291795553574&q=s_sh000001	
qt.gtimg.cn	/0.28378768051320274&q=s_sh000001	
qt.gtimg.cn	/0.4197365395209557&q=s_sh000001	
qt.gtimg.cn	/0.45630580196514486&q=s_sh000001	
qt.gtimg.cn	/0.4772976637824025&q=s_sh000001	
qt.gtimg.cn	/0.527563821103971&q=s_sh000001	
qt.gtimg.cn	/0.5326863723848345&q=s_sh000001	
qt.gtimg.cn	/0.5529081226099692&q=s_sh000001	
qt.gtimg.cn	/0.6228600556720591&q=s_sh000001	
qt.gtimg.cn	/0.6301775442038555&q=s_sh000001	
qt.gtimg.cn	/0.646542415765798&q=s_sh000001	
qt.gtimg.cn	/0.6572509842785521&q=s_sh000001	
qt.gtimg.cn	/0.6692205073325481&q=s_sh000001	

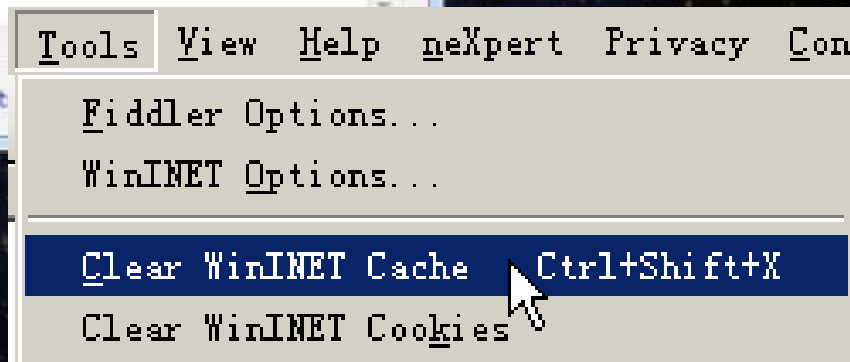
Context Menu Options:

- Make JavaScript Pretty
- Block this Host
- Decode Selected Sessions
- ✓ AutoScroll Session List
- Copy
- Save
- Remove
- Comment...
- Mark
- Replay
- Select
- Compare (Ctrl+W)

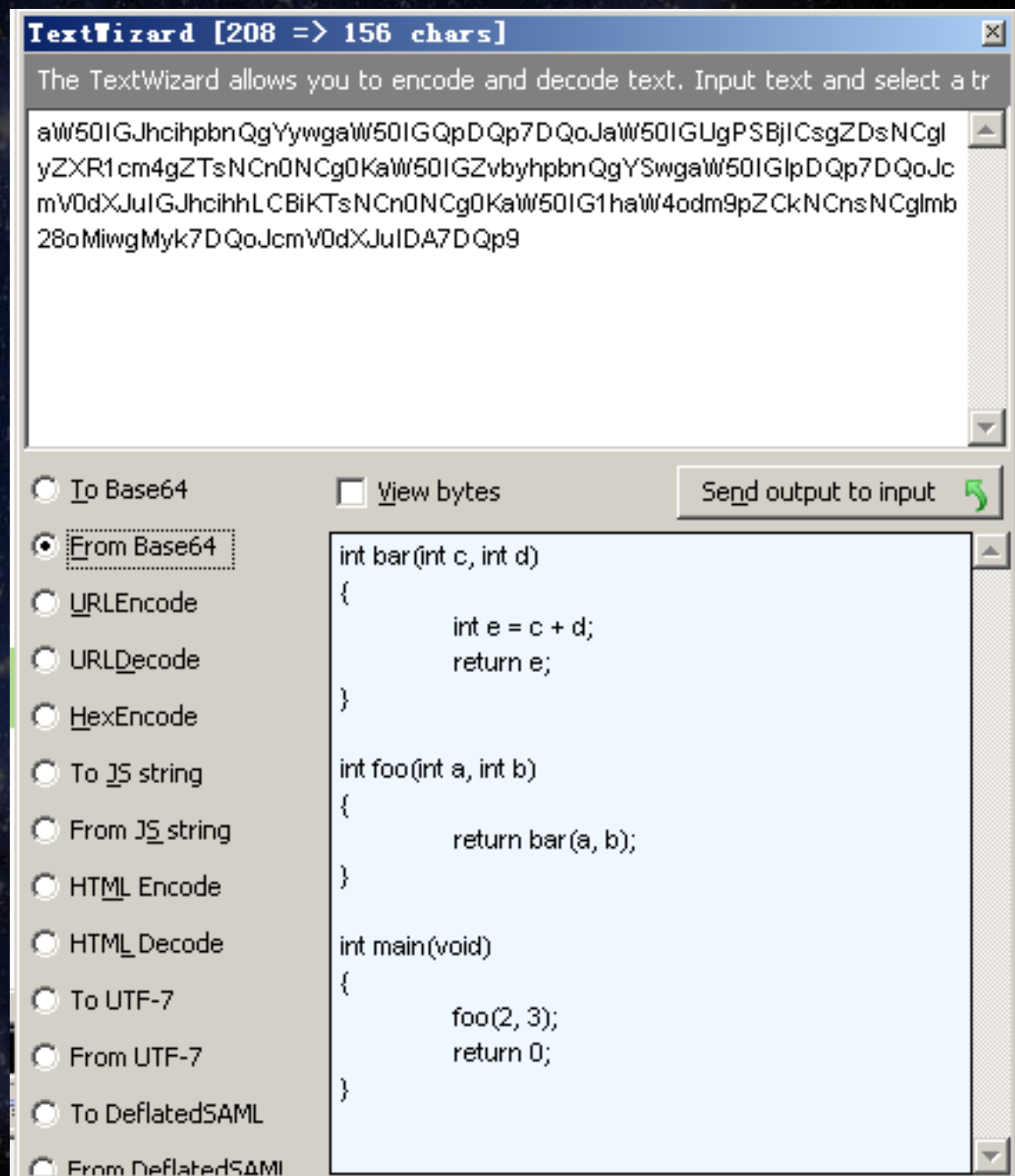
修改host，无需重启浏览器，但需要清缓存。。



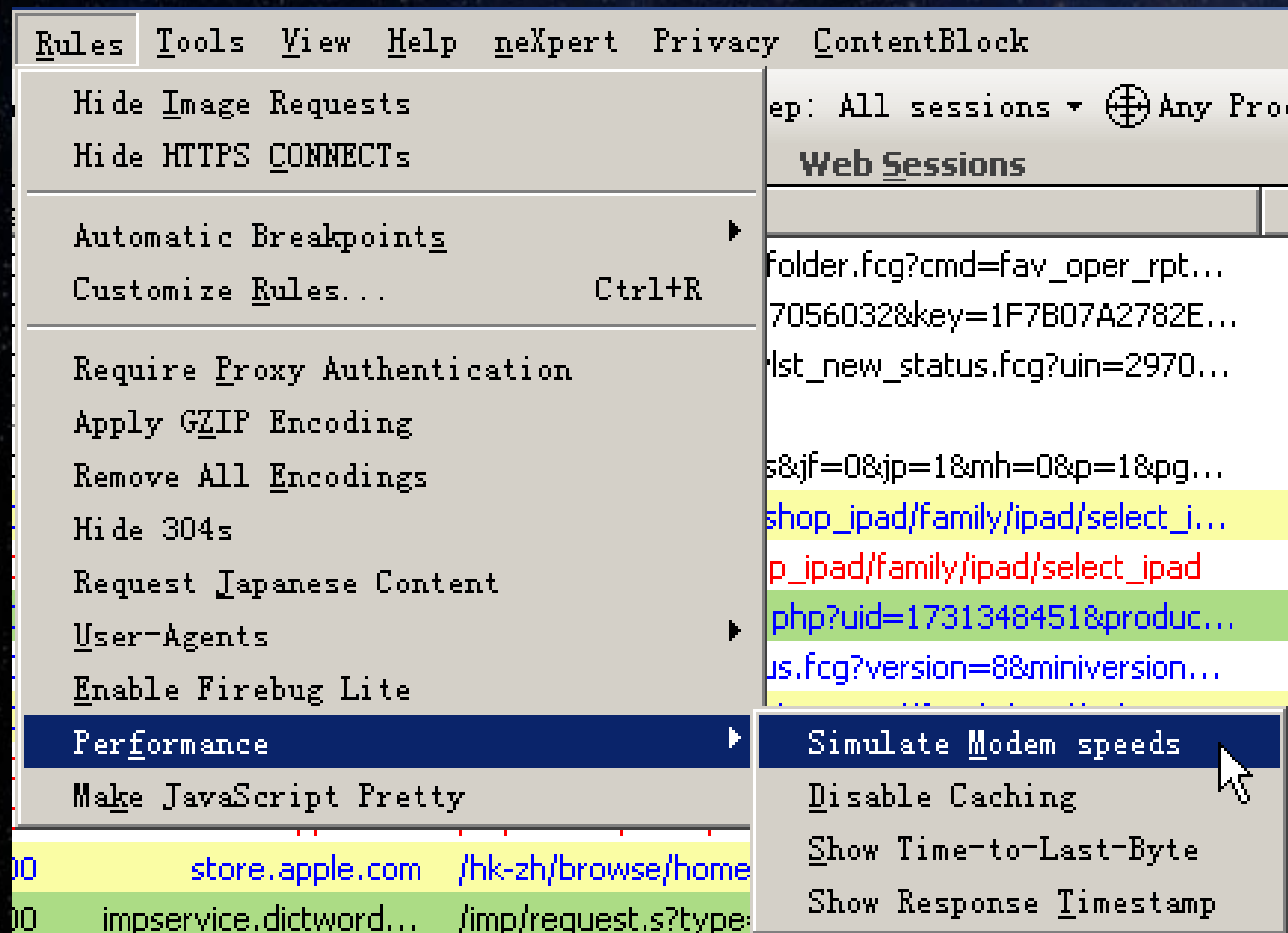
Tools -> HOSTS...



字符编码解码

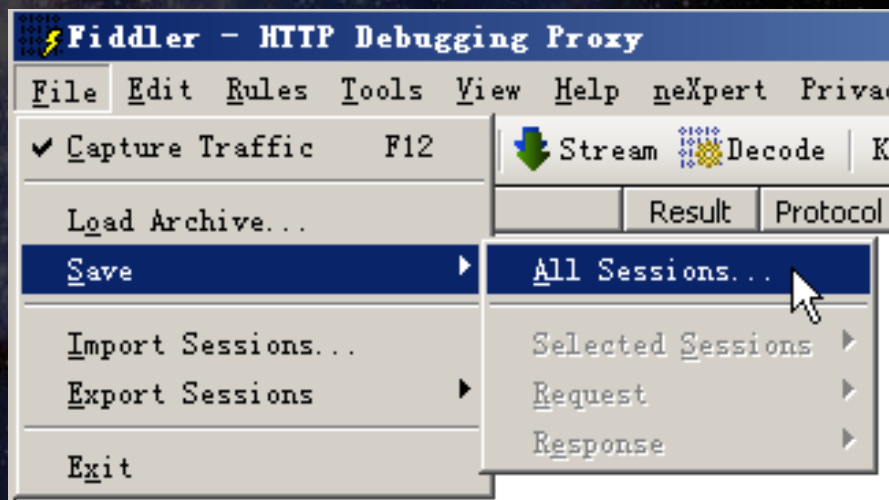


模拟慢网速（延时模式）



SAZ Files

- “Session Archive ZIP” 文件保存数据流.
- SAZ 文件压缩数据，可以设密码保护.
- SAZ 文件可以由 Fiddler 重新打开.
- FiddlerCap 可以由远程（一般是用户）录制，开发工程师打开分析数据流.



一、~~预热~~

二、~~Fiddler~~是什么

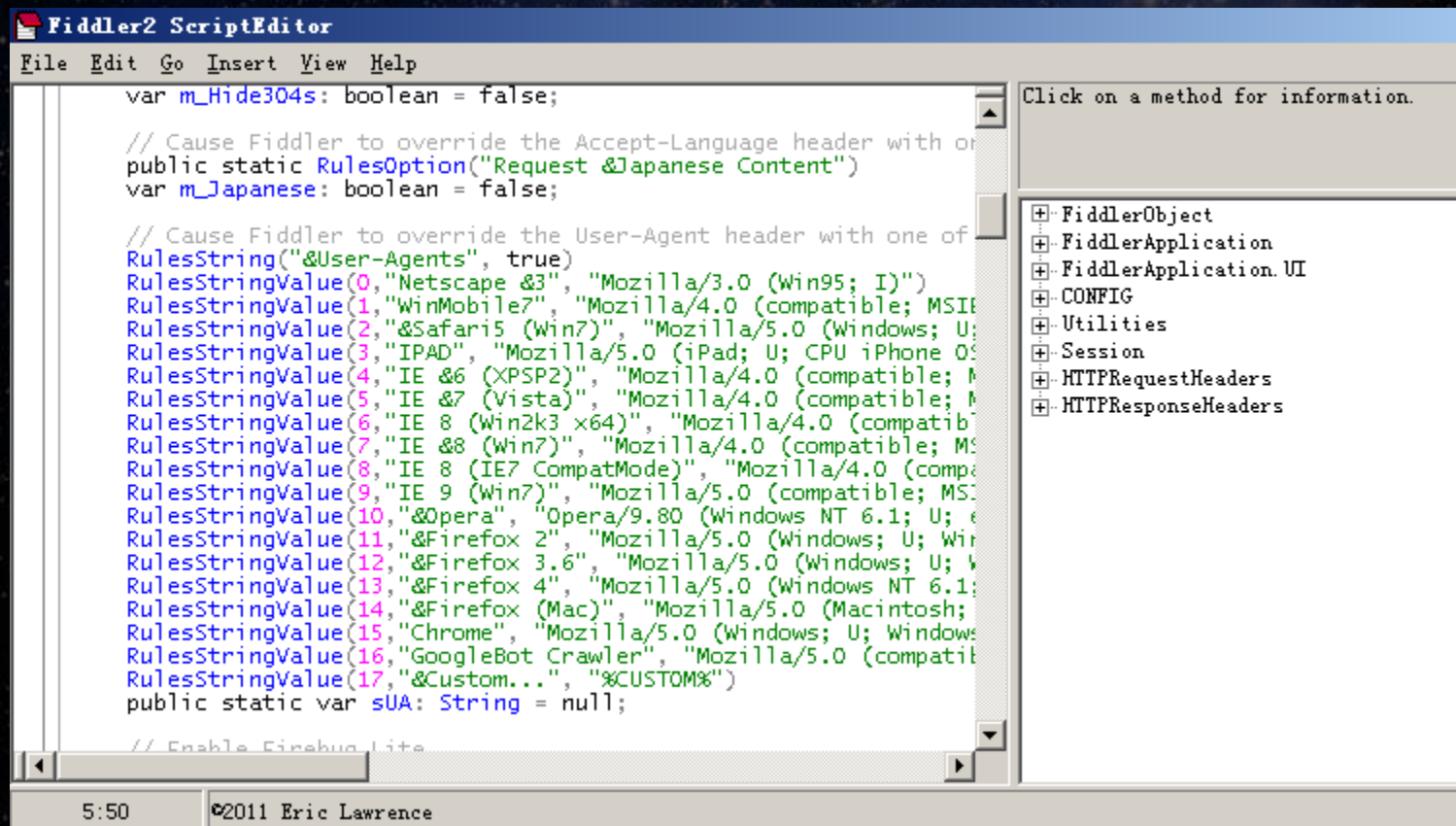
三、~~通常怎么用Fiddler~~

四、脚本化、插件&更高级的东西

五、举个栗子吧。。

- https嗅探
- Fiddler Customize Rules...编写
- 插件开发
- Fiddler 作为反向代理服务器
- 更多可用插件：
<http://www.fiddler2.com/Fiddler2/extensions.asp>

自定义规则



数据捕获 —— 插件

- Content Blocking

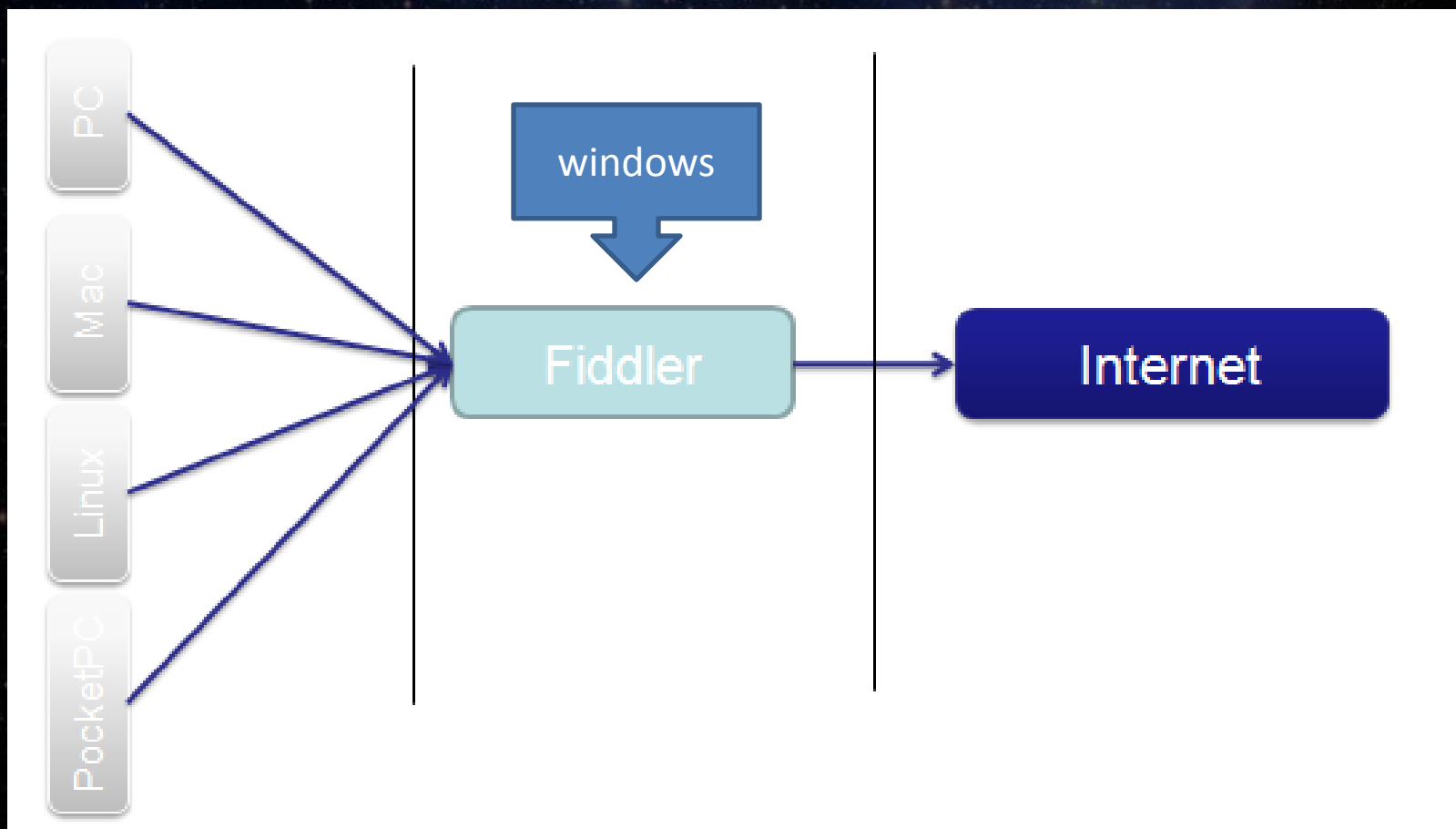
数据分析—— 多个请求分析插件

- · neXpert Performance Report Generator (性能分析插件)
- · Traffic Differ (多个请求分析)
- · Gallery (多个选中请求中的图片预览)

修改数据—— 插件

- • Delayed Responses (将请求延迟响应)
- • Stave/UrlReplace (请求转向)
- • Willow (请求转向)
- • Local Override (请求转向)

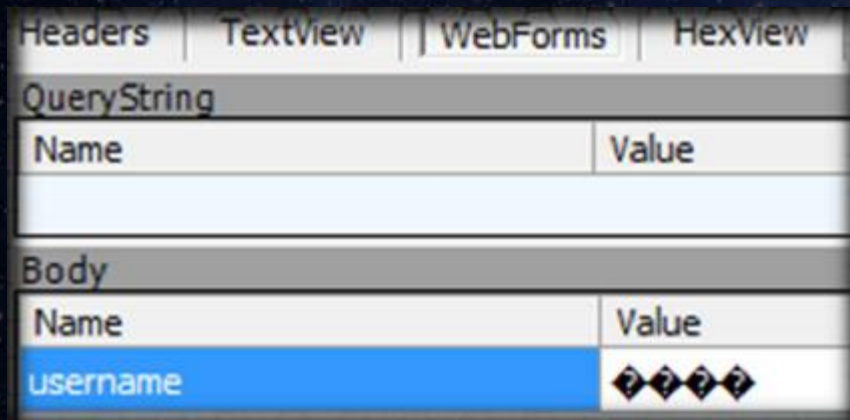
非window程序如何使用fiddler



Mac/linux 使用Fiddler

- 1、Windows (机器名 : Winbox1) 上开启Fiddler
- 2、Fiddler 选项
(Tools->Fiddler Options->Connections Tab)
Allow remote computers to connect打勾
- 3、Mac/Linux 上设置代理为
Address: Winbox1 Port: 8888

POST数据中文参数乱码问题



- 解决：打开注册表编辑器，找到
- HKCU\Software\Microsoft\Fiddler2\
- 在里面添加一个字符串值，名叫HeaderEncoding，
- 值设置为默认编码，建议设成GB18030

意外死机戒者Fiddler异常退出后无法上网

- 原因：Fiddler 异常退出，但是系统的代理仍然是 127.0.0.1:8888
- 解决办法：重新打开Fiddler，正常关闭

一、~~预热~~

二、~~Fiddler~~是什么

三、~~通常怎么用Fiddler~~

四、~~脚本化、插件&更高级的东西~~

五、~~举个栗子吧。。~~

例子

- bpafter <http://pizzahut.qq.com/flash/lotteryDraw>



题外话。。。

Webgame测试

- Webgame一般都用flash展现形式，不少的应用已经开始用AMF进行交互，AMF是以二进制形式与服务器端进行序列化和反序列化的，虽然传输数据能得到很好的压缩，但可读性较差，应运而生的就是针对AMF协议抓包的工具，
- fiddler在这点上支持不好，相比之下，Charles web debugging proxy就很好的解决了这个问题，它基本功能与fiddler类似
- 特别的是，它能在fiddler的基础上再加一层代理，将Charles的外部代理指向Fiddler，可以使他们在交互时截获同样的数据，通过Charles则能够完美的解析amf格式数据。

熬了两个夜晚的PPT，求撒花。。

没错，结束了。。