



- HowTo Profile in Firebug
  - Open and Activate Firebug
  - Toggle Console  On
  - Make something happen, eg reload page
  - Toggle Console  Off
  - Examine performance info
  - A Tip for the Anonymous User
- Demo
  - Compare Firebug locales to en-US
  - AJAX to load locales
  - Compute diffs, show in UI



Status of Firebug Localizations - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://enki-pcshih.almaden.ibm.com:63636/ProjectExplorer/MarchOfFirebugs/WebContent/LocaleCheck.htm

Getting Started Latest Headlines

Firebug

Open Firebug

fr-FR	73 missing	150 valid
HU-hu	31 missing	192 valid
it-IT	82 missing	141 valid

Done

The screenshot shows a Mozilla Firefox browser window displaying the "Status of Firebug Localizations" page. The browser's address bar shows the URL: http://enki-pcshih.almaden.ibm.com:63636/ProjectExplorer/MarchOfFirebugs/WebContent/LocaleCheck.htm. The page features the Firebug logo and a navigation bar with links for "Getting Started" and "Latest Headlines". Below the logo, there is a prominent "Open Firebug" button, which is highlighted with a red arrow. The main content area displays a table of localization statistics for three languages: fr-FR (73 missing, 150 valid), HU-hu (31 missing, 192 valid), and it-IT (82 missing, 141 valid). The status bar at the bottom of the browser window shows "Done".



The screenshot shows the Firebug interface. At the top, there is a menu bar with options: "Inspect", "Clear", "Profile", and "Disabled". Below the menu bar is a tabbed interface with tabs for "Console", "HTML", "CSS", "Script", "DOM", and "Net". The "Console" tab is selected. Below the tabs, there is a section titled "Console panel is disabled" with a firebug icon. The text below the title reads: "Use this page to enable or disable following panels. Notice that enabling these panels will reduce Firefox performance and also requires page reload." Below this text is a table with three rows, each representing a panel that is currently disabled. The first row is "Console" (Support for Console logging, disabled), the second is "Script" (Support for JavaScript debugging, disabled), and the third is "Net" (Support for Network monitoring, disabled). The checkboxes for "Console", "Script", and "Net" are all checked. A red circle highlights the "Console" and "Script" rows. To the right of the table, there is a red arrow pointing to a button labeled "Enable selected panels for enki-pcshih.almaden.ibm.com". Above the arrow, the text "Enable Console+Script" is written in red. At the bottom left of the interface, there are three right-pointing chevrons (&gt;&gt;&gt;).



firebug.properties

locale firebug.properties

bg 60 missing 163 valid

ca-AD 12 missing 211 valid

da-DK 50 missing 164 valid

Inspect Clear Profile Enabled

Console HTML CSS Script DOM Net

The profiler is running. Click 'Profile' again to see its report.

Then reload (or other action that runs Javascript).

>>>

Done



firebug.properties

locale firebug.properties  
 bg 60 missing 163 valid  
 ca-AD 12 missing 211 valid  
 da-DK 50 missing 164 valid

Push Profile Button to end profile  
 Report appears in Console

Inspect Clear Profile Enabled

Console HTML CSS Script DOM Net

Profile (4375ms, 143843 calls)

Function	Calls	Percent	Own Time	Time	Avg	Min	Max	File
onComplete()	17	31.07%	1359.375ms	3828.125ms	225.184ms	187.5ms	437.5ms	Local
addClassName()	7702	26.07%	1140.625ms	1421.875ms	0.185ms	0ms	187.5ms	protot
_methodized()	19247	11.79%	515.625ms	2359.375ms	0.123ms	0ms	187.5ms	protc
hasClassName()	7702	4.29%	187.5ms	203.125ms	0.026ms	0ms	15.625ms	protot
request()	35	4.29%	187.5ms	203.125ms	5.804ms	0ms	46.875ms	protot
createProperty	7601	3.57%	156.25ms	156.25ms	0.021ms	0ms	15.625ms	Local
hide()	3811	3.57%	156.25ms	203.125ms	0.053ms	0ms	15.625ms	protot
\$A	19821	3.21%	140.625ms	140.625ms	0.007ms	0ms	15.625ms	protc
_getElementsByXPath()	34	2.86%	125ms	125ms	3.676ms	0ms	15.625ms	protot
(?)()	7957	2.5%	109.375ms	296.875ms	0.037ms	0ms	15.625ms	protc

>>>

Done



firebug.properties

```

locale firebug.properties
bg 60 missing 163 valid
ca-AD 12 missing 211 valid
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```

Inspect Clear Profile Enabled

Console HTML CSS Script DOM Net

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Check this one

Reduce these calls?



```
firebug.properties

locale firebug.properties
bg    60 missing 163 valid
ca-AD 12 missing 211 valid
da-DK 59 missing 164 valid

new Ajax.Request(propertiesURL,
{
  method: 'get',
  onComplete: function(transport)
  {
    var propertyMissingControl = document.createElement("td");
    propertyMissingControl.className = "propertyMissingControl";
    localeDiv.appendChild(propertyMissingControl);

    var propertyValidControl = document.createElement("td");
    propertyValidControl.className = "propertyValidControl";
    localeDiv.appendChild(propertyValidControl);

    var propertiesRow = document.createElement("tr");
```



firebug.properties

locale firebug.properties  
 bg 60 missing 163 valid  
 ca-AD 12 missing 211 valid  
 de-DK 50 missing 164 valid

4 seconds down to 2 second after 3 rounds of changes and profiling.

Inspect Clear Profile Enabled

Console HTML CSS Script DOM Net

Profile: (2062.5ms, 31783 calls)

Function	Calls	Percent	Own Time	Time	Avg	Min	Max	File
buildPropertiesList	17	37.88%	781.25ms	781.25ms	45.956ms	31.25ms	62.5ms	LocaleC
createProperty	7601	26.52%	546.875ms	546.875ms	0.072ms	0ms	15.625ms	LocaleC
request()	35	9.85%	203.125ms	203.125ms	5.804ms	0ms	140.625ms	protot
_getElementsByXPath()	136	6.06%	125ms	125ms	0.919ms	0ms	15.625ms	protot
(?)()	7991	4.55%	93.75ms	671.875ms	0.084ms	0ms	15.625ms	protc
initialize()	136	1.52%	31.25ms	78.125ms	0.574ms	0ms	15.625ms	protot
getHeader()	263	1.52%	31.25ms	31.25ms	0.119ms	0ms	31.25ms	protot
initialize()	266	1.52%	31.25ms	62.5ms	0.235ms	0ms	31.25ms	protot
compileMatcher()	136	1.52%	31.25ms	31.25ms	0.23ms	0ms	15.625ms	protot
toQueryParams()	35	0.76%	15.625ms	15.625ms	0.446ms	0ms	15.625ms	protc

>>>

Done



Console	HTML	CSS	Script	DOM	Net						
\$				19284	1.08%	46.875ms	109.375ms	0.006ms	0ms	15.625ms	proto
isString()				19320	1.08%	46.875ms	46.875ms	0.002ms	0ms	15.625ms	proto
each()				366	1.08%	46.875ms	375ms	1.025ms	0ms	31.25ms	proto
respondToReadyState()				197	0.72%	31.25ms	4171.875ms	21.177ms	0ms	390.625ms	proto
(?) ()				23026	0.72%	31.25ms	31.25ms	0.001ms	0ms	15.625ms	pro
get()				70	0.72%	31.25ms	31.25ms	0.446ms	0ms	31.25ms	proto
isUndefined()				620	0.36%	15.625ms	15.625ms	0.025ms	0ms	15.625ms	proto
dispatch()				232	0.36%	15.625ms	15.625ms	0.067ms	0ms	15.625ms	proto
setRequestHeaders()				35	0.36%	15.625ms	15.625ms	0.446ms	0ms	15.625ms	proto
initialize()				232	0.36%	15.625ms	15.625ms	0.067ms	0ms	15.625ms	proto
bind()				567	0.36%	15.625ms	31.25ms	0.055ms	0ms	15.625ms	proto
concat()				34	0.36%	15.625ms	15.625ms	0.46ms	0ms	15.625ms	proto

>>>

When Firebug can't get a function name

Name your functions:

```
this._each(function(value) {
  iterator(value, index++);
});
```

```
this._each(function applyIterator(value) {
  iterator(value, index++);
});
```



**Original LocaleCheck**

**Optimized LocaleCheck**



## **Firebug makes Javascript Profiling Simple**

- Incorporate profiling in your development process
- Firebug 1.2 supports event handler and eval() profiling
- More cool things possible with Firebug profiling...