

Y! YUI Library: ProfilerViewer Control

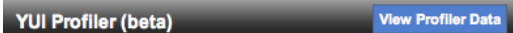
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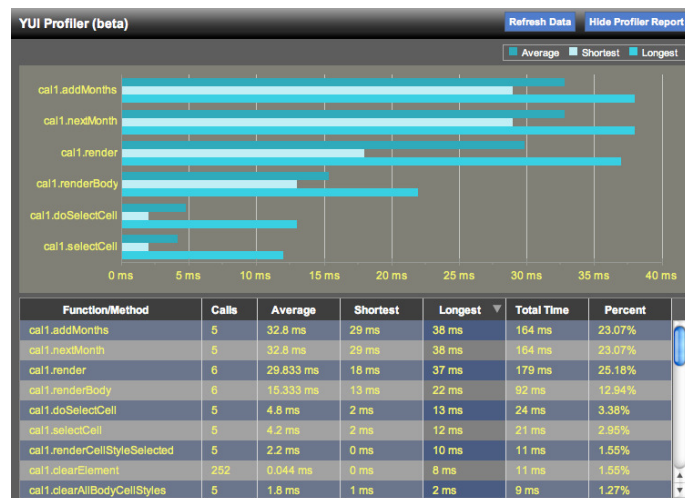
Simple Use Case: Profiling an Object

```
//assuming you have an object with functions called
"myObject":
YAHOO.tool.Profiler.registerObject("myObject",
    myObject); //see Profiler docs for more on how
//to set up your code profiles.
var pv = new YAHOO.widget.ProfilerViewer("myEl");
```

This code tells the Profiler to profile `myObject` and tells ProfilerViewer to create a viewer display in the DOM element whose id is `myEl`. ProfilerViewer will show all profiled functions; use the `filter` attribute to limit a viewer instance to a subset of profiled functions. Upon instantiation, the ProfilerViewer launcher is rendered:



Once the View Profiler Data button is clicked, ProfilerViewer will load the DataTable and Charts controls and display the viewing console. A ProfilerViewer console with default options will look like this:



Constructor: YAHOO.widget.ProfilerViewer

```
YAHOO.widget.ProfilerViewer([str | obj container, obj
    configuration])
```

Arguments:

- (1) **Container:** (Optional) A reference to a DOM element (by ID or direct reference) that will contain the ProfilerViewer display. For best results, use an element with at least 750px of viewable width. If no element is passed, a new element will be created as the first child of the `<body>` element.
- (2) **Configuration:** (Optional) An optional object containing your desired configuration options. See Configuration Options section for details.

Key ProfilerViewer Configuration Options

Field	Type	Description
base	string	Path to your YUI base directory, to be used by YUI Loader in pulling in dependencies on-demand. Default: YUI files will be served from yui.yahooapis.com.
filter	function	The filter used by ProfilerViewer in determining which profiled functions to show in the display. See Solutions below for more.
maxChart Functions	string	The maximum number of functions to profile in the Chart display. Default: 6.
showChart	boolean	Determines whether or not the Chart Control should be used to visualize profiling data. Default: <i>true</i> .
sortedBy	object	{key: string, dir: string} The default sort column and direction for data in the DataTable. Valid keys are: <i>fn</i> , <i>calls</i> , <i>avg</i> , <i>min</i> , <i>max</i> , <i>total</i> , <i>pct</i> . Valid dir values are: <i>YAHOO.widget.DataTable.CLASS_ASC</i> and <i>YAHOO.widget.DataTable.CLASS_DESC</i> .
swfUrl	string	Relative path or url to the YUI Charts Control .swf file. Defaults to current version hosted on yui.yahooapis.com.
tableHeight	string	Height of the DataTable portion of the console. Default: "15em".
visible	boolean	If <i>true</i> , the ProfilerViewer Console will render immediately upon instantiation. Otherwise, just the launcher will render initially. Default: <i>false</i> .

Configuration options should be set in the second argument of the constructor:

```
var pv = new YAHOO.widget.ProfilerViewer("myEl", {visible:true});
```

Key Interesting Moments in ProfilerViewer

Event	Description/Fields:
renderEvent	Event fires when the viewer canvas first renders. No arguments passed.
refreshDataEvent	Event fires when a data refresh is requested through the UI or programmatically.
sortedByChange	Event fires when the DataTable is resorted. Argument: {newValue: new value, oldValue: old value}.
visibleChange	Event fires when the viewer console is shown/hidden. Argument: {newValue: new value, oldValue: old value}
Subscribe: <code>pv.subscribe("visibleChange", function(o){});</code>	

Solutions:

Configure ProfilerViewer to **not use the Charts Control**:

```
var pv = new YAHOO.widget.ProfilerViewer("myEl",
    showChart: false);
```

Use a filter function to only display profiling data for functions that have been called at least once:

```
var pv = new YAHOO.widget.ProfilerViewer("myEl",
    filter: function(o) {return o.calls > 0;}
);
```

YAHOO.widget.ProfilerViewer Properties

STRINGS static member containing strings used in the UI; see API docs for the format of this object and examples for how to use this object to internationalize your ProfilerViewer console.

YAHOO.widget.ProfilerViewer Methods

getBodyEl() returns the element containing the console body (chart and table)
getChart() returns the Chart Control instance (if present)
getChartEl() returns the element containing the Chart Control and legend
getDataTable() returns the DataTable Control instance
getHeadEl() returns the element containing console header and buttons
getTableEl() returns the element containing DataTable's DOM structure.
refreshData() programmatically refreshes the data in the console

Dependencies

The ProfilerViewer Control requires the YUI Loader (which includes the Yahoo Global Object and the Get Utilitiy), Dom Collection, Event Utility, Profiler, and Element Utility. (The DataTable Control and Charts Control are brought in dynamically by YUI Loader when the ProfilerViewer UI is first made visible.)