

Михаил Баранов

# Средства для разработчиков – какое вкуснее?





# Поиск ошибок «от забора и до обеда»

**1996<sup>год</sup>**  
**или около того**



# **Firebug**

**getFirebug.com**  
**+ getFirebug.ru**

**Web Standards Days | Рига**  
22.05.2010



# Чтение кода

```

<html><head><meta http-equiv="Content-Type" content="text/html; charset=utf-8"><title>Яндекс</title><link rel="shortcut icon" href="http://yandex.st/logo/2.2.8/common/block/b-service-icon/_ico/b-service-icon_serp.ico"><base target="_top"><style type="text/css">*{font-size:100.01%;margin:0}body(font:.8em Arial,sans-serif;background:#fff url(http://www.tns-counter.ru/V13a****yandex_ru/ru/CP1251/tmsec=yandex_ya/0)}body,a{color:#999)a:hover{color:#f00!important}table{width:100%;height:100%}table table{width:65%;max-width:1000px;min-width:300px;margin:auto}table table td{padding:.25em}#text,#text input{font:100% Arial,sans-serif;width:100%}p(padding:5em 2.2em 13px)body,ul,li(padding:0;list-style:none)span(white-space:nowrap)#head(float:left;width:100%)#head li{font:85% Verdana,sans-serif;padding:5px 10px 7px 0}#head a{color:#000} #head .s{float:left;padding-left:10px}#head .s a{float:left;color:#ee7b00} #head .s i{position:absolute;width:16px;height:16px;margin-left:-19px;background:url(http://img.yandex.net/i/switch-yaru.png) no-repeat} #mail{float:right}#head .user,#head .user *{text-decoration:underline}#head .user *(color:#f00) #head .exit{color:#E03A3A}</style><script type="text/javascript">var ieHomeCheck={ URL:"http://ya.ru/", linkId:"sethome", clids:[41124], _checkClids:function(){ var D=-1; document.body.style.behavior="url(#default#homepage)"; if(document.body.isHomePage("http://ya.ru/"))||document.body.isHomePage(this.URL)){ return 0 } for(var C=0;C<this.clids.length;C++){ if(document.body.isHomePage(this.URL+"?clid="+this.clids[C])){ return this.clids[C] } } return D }, _hide:function(){ document.getElementById(this.linkId).style.display="none"}, _cH:function(F,G){ var E=function(C,A,B){ return location.protocol+"//clck.yandex.ru/"+B+" /dtype="+C+"/pid=132/cid=2039/path="+A+"/rnd="+(new Date()).getTime()+Math.round(Math.random()*100)+"-"+G }; var H=document.createElement("script"); H.src=E("stred",F,"jclk"); document.documentElement.getElementsByTagName("head")[0].appendChild(H), action:function(){ this.URL=location.protocol+"//"+location.hostname+"/"; var B=this._checkClids(); if(B>0){ this._hide(); this._cH("nextdistrib.homepage,"+B,this.URL) } else{ if(B==0){ this._hide(); this._cH("nextdistrib.homepage",this.URL) } } }; function c(A,B,C){ new Image().src=location.protocol+"//clck.yandex.ru/click/dtype=stred/pid="+B+"/cid="+C+"/rnd="+(new Date()).getTime()+Math.round(Math.random()*100)+"-"+(A.href?A.href:"") } function setHome(A,B){ try{ A.style.behavior="url(#default#homepage)"; A.setHomePage(B); return false } catch(C){} } function createElement(B,A){ var D=document.createElement(B); for(var C in A){ D[C]=A[C] } return document.getElementsByTagName("head")[0].appendChild(D) }; </script></head><body><table cellpadding="0" cellspacing="0"><tbody><tr><td colspan="2" valign="top" height="1"><ul id="head"><li class="s"><a id="sethome" href="http://help.yandex.ru/start" onclick="c(this,17,1755);return setHome(this,'http://ya.ru/?clid='+location.href.match(/clid=(\d+)/)?location.href.match(/clid=(\d+)/)[1]:'41124')">Сделать стартовой</a></li><li id="mail"><a href="http://mail.yandex.ru" onclick="c(this,17,1080)">Войти в почту</a></li></ul><!--if IE--><script type="text/javascript">ieHomeCheck.action();</script><!--endif--></td></tr><tr><td colspan="2" align="center"><form action="http://yandex.ru/yandsearch" onsubmit="var clid=location.href.match(/clid=(\d+)/);location.href=this.action+"<?text=" + encodeURIComponent(this.text.value)+(clid?"&amp;"+clid[0]:""),return false" ><table class="b-search__wrap"><tbody><tr><td><a href="http://www.yandex.ru" onclick="c(this,17,1081)"></a></td><td id="text"><div><input id="text" name="text" autocomplete="off" size="50" maxlength="300" type="search"></div></td><td><input onclick="c(this,17,1082)" value="Найти" type="submit"></td></tr></tbody></table><input value="/h0/tm6/s1" id="stpar2" name="stpar2" type="hidden"><input value="/s1" id="stpar4" name="stpar4" type="hidden"></form></td></tr><tr valign="bottom"><td width="50%" height="1"><p align="right"><span>© 1997–2010</span> <<a href="http://www.yandex.ru" onclick="c(this,17,1083)">Яндекс</a>></p></td><td width="50%"><p>Дизайн — <a href="http://www.artlebedev.ru" onclick="c(this,17,1084)">Студия Артемия Лебедева</a></p></td></tr></tbody></table><script type="text/javascript">var suggestEnabled = 1; if(self.parent.frames.length!=0) self.parent.location=document.location; else { var t=document.forms[0].text; try{t.type='search'}catch(e){}; t.focus() } setTimeout(function(){ createElement('script', { type: 'text/javascript', charset:'UTF-8', src: 'http://www.yandex.ru/data/mail.js?yaru=y' }); setTimeout(loadSuggest, 300); }, 9);function AE(c, n, f) { c[n] = function(e) { return f(e || event); } } function $(id) { return document.getElementById(id); } function initSuggest() { var f = window.Suggest; if (f) { new f({ input: document.forms[0].text, noNavi: true, suggestUrl: 'http://suggest.yandex.ru/suggest-ya.cgi?ct=text/html&part=#1&v=2' }); suggest.status(true); } else { setTimeout(initSuggest, 100); } } window.loadSuggest = function() { if (!window.Suggest && suggestEnabled) { var text = document.forms[0].text; var parent = text.parentNode; var value = text.value; parent.focus(); parent.innerHTML = '<input id="text" type="search" name="text" autocomplete="off" size="50" maxlength="300">'; parent.firstChild.value = value; createElement('link', {rel: 'stylesheet', href: '/b-suggest.css'}); if(window.navigator.appName == 'Microsoft Internet Explorer'){ createElement('link', {rel: 'stylesheet', href: '/b-suggest-ie.css'}); } createElement('script', {type: 'text/javascript', src: 'http://suggest.yandex.ru/itsuggest-1.9.js'}); document.forms[0].text.focus(); setTimeout(initSuggest, 100); setTimeout(function(){document.forms[0].text.focus();}, 200); setTimeout(function(){document.forms[0].text.focus();}, 500); } }</script></body></html>

```

The screenshot shows the Firebug developer tool interface. The left panel displays the DOM tree for a page. The root node is `<html>`. It contains `<head>`, `<body>`, and a `<script type="text/javascript">` element. The `<body>` node has a child `<table cellspacing="0" cellpadding="0">`. This table has a `<tbody>` child, which in turn has `<tr>`, `<tr>`, and `<tr valign="bottom">` children. The last `<tr>` node is highlighted with a blue selection bar. Inside this selected `<tr>` node is a `<td valign="top" height="1" colspan="2">` element, which contains a `<ul id="head">` element. The right panel shows the CSS styles for this selected `<ul id="head">` element. The styles listed are:

- `#head { float: left; width: 100%; }`
- `body, ul, li { list-style-image: none; list-style-position: outside; list-style-type: none; padding: 0; }`
- `* { font-size: 100.01%; margin: 0; }`

Below these, under "Inherited from td", is another style:

- `* { font-size: 100.01%; }`

Further down, under "Inherited from tr" and "Inherited from tbody", are additional styles:

- `* { font-size: 100.01%; }`

Finally, under "Inherited from table", is one more style:

- `* { font-size: 100.01%; }`

# Анализ структурь кода

Firebug – Web Standards Days

Консоль HTML CSS Сценарий DOM Сеть Pixel Perfect

Редактировать time < p < header#header < div#page < body < html

<html lang="ru-RU">  
 <head>  
 <script type="text/javascript" defer="" src="http://mc.yandex.ru/watch/545187?rn=975098&cnt-class=0&page-ref=&page-url=http%3A%2F%2Fwebstandardsdays.ru%2F&browser-info=j:1:s:1440x900x24:f:10.1.52:w:1440x697:z:180:i:201005220245:wmode=3">  
 <div id="page">  
 <header id="header" role="banner">  
 <h1>Web Standards Days</h1>  
 <p>  
 <time datetime="2010-05-22">22 мая 2010</time>  
 Рига  
 </p>  
 </header>  
 <nav id="navigation">  
 <ul>  
 </nav>  
 <section id="main" class="content content-primary" role="main">  
 <aside id="twitter" class="content content-secondary">  
 <aside id="sponsors">  
 </div>  
 <script type="text/javascript" src="//mc.yandex.ru/metrika/watch.js">  
 <script type="text/javascript">  
 <noscript> &lt;img src="//mc.yandex.ru/watch/545187" alt="" style="position:absolute"&gt; </noscript>  
 </body>  
 </html>

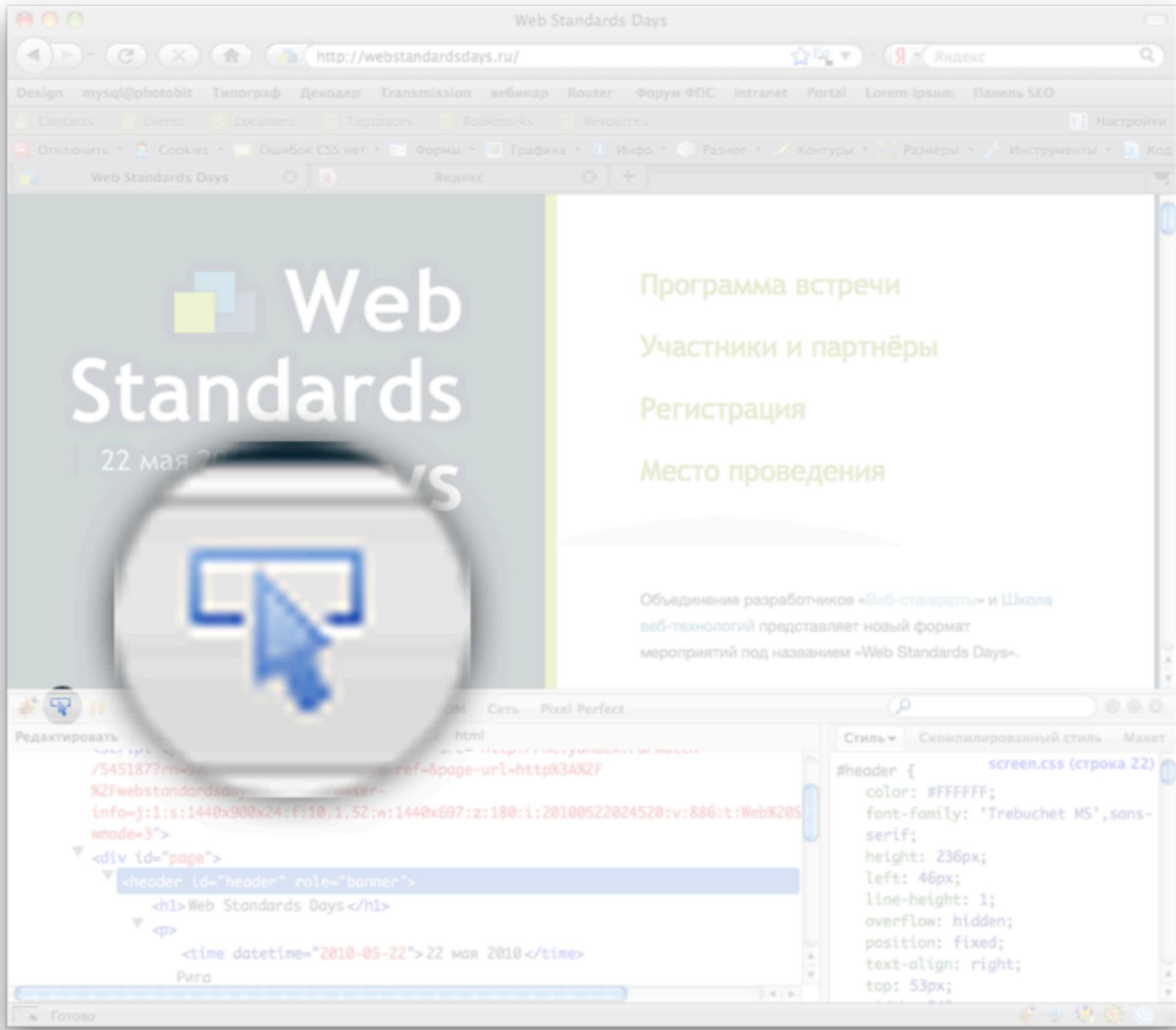
Стиль Скомпилированный стиль Макет DOM

#header { screen.css (строка 22)  
 color: #FFFFFF;  
 font-family: 'Trebuchet MS', sans-serif;  
 height: 236px;  
 left: 46px;  
 line-height: 1;  
 overflow: hidden;  
 position: fixed;  
 text-align: right;  
 top: 53px;  
 width: 343px;  
}  
article, aside, audio, bb, canvas, datagrid, datalist, details, dialog, figure, footer, header, mark, menu, meter, nav, output, progress, section, time, video {  
 display: block;  
}  
Унаследовано от div#page  
reset.css (строка 4)  
html, body, div, span, applet, object, iframe, h1, h2, h3, h4, h5, h6, p, blockquote, pre, a, abbr, acronym, address, big, cite, code, del, dfn, em, font, input, select, table, tr, td

time < p < header#header < div#page < body < html

**Проще тыкнуть,  
чем найти**

**Ctrl+Shift+C**



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22.05.2010

$$T = a + b \log_2(D/W + 1)$$



Ну...  
и что дальше?



# CSS

**Наследование  
Переопределение  
Стили браузера**

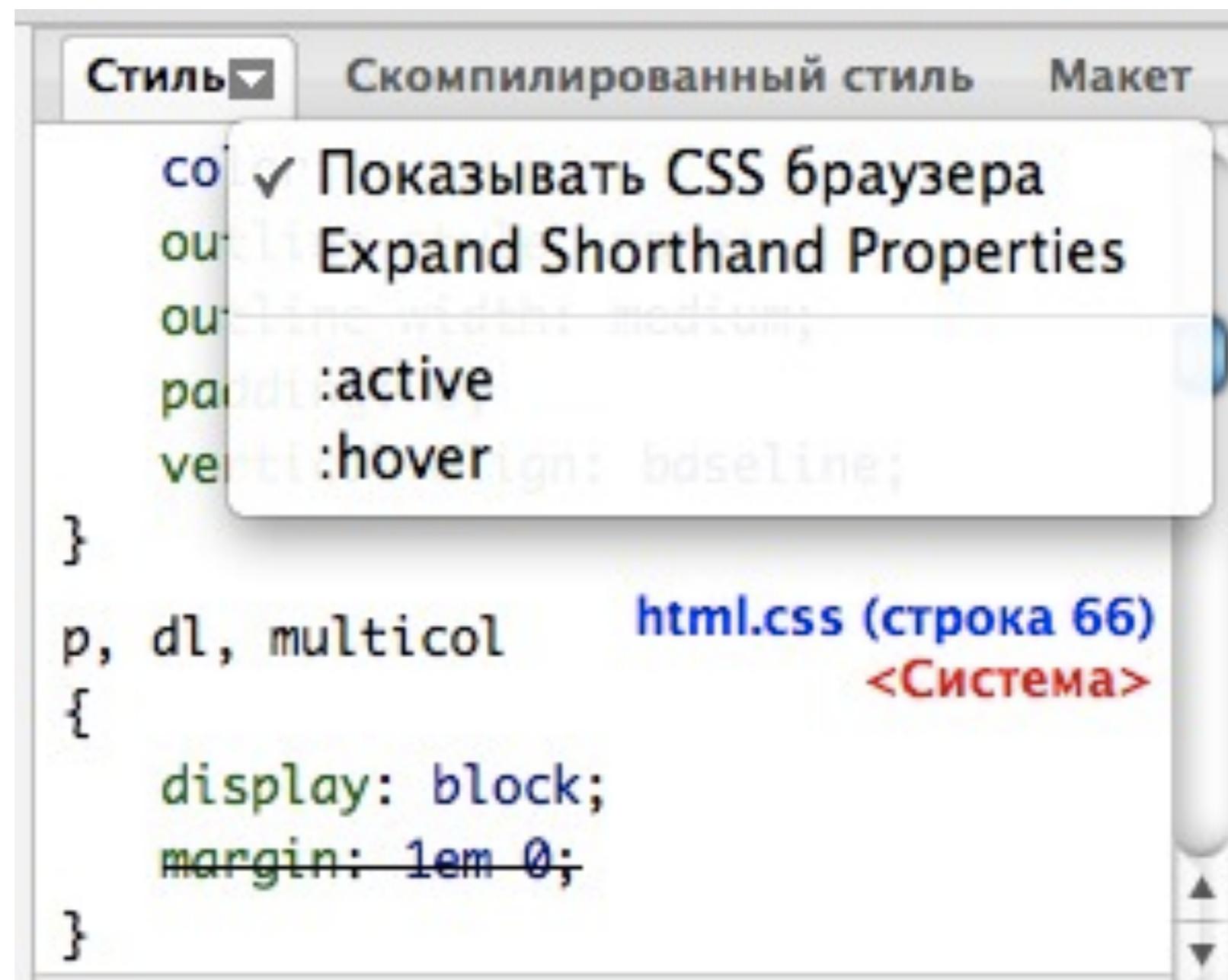


Стиль ▾ Скомпилированный стиль Макет

```
#header h1 {      screen.css (строка 35)
    font-size: 72px;
    position: relative;
    z-index: -1;
}
th, b, strong,
h1, h2, h3, h4,
h5, h6 {          reset.css (строка 20)
    font-weight: normal;
}
```

```
    fieldset, form,  
    label, legend,  
    table, caption,  
    tbody, tfoot,  
    thead, tr, th,  
    td {  
        font-family: inherit;  
        font-size: 100%;  
    }
```

---



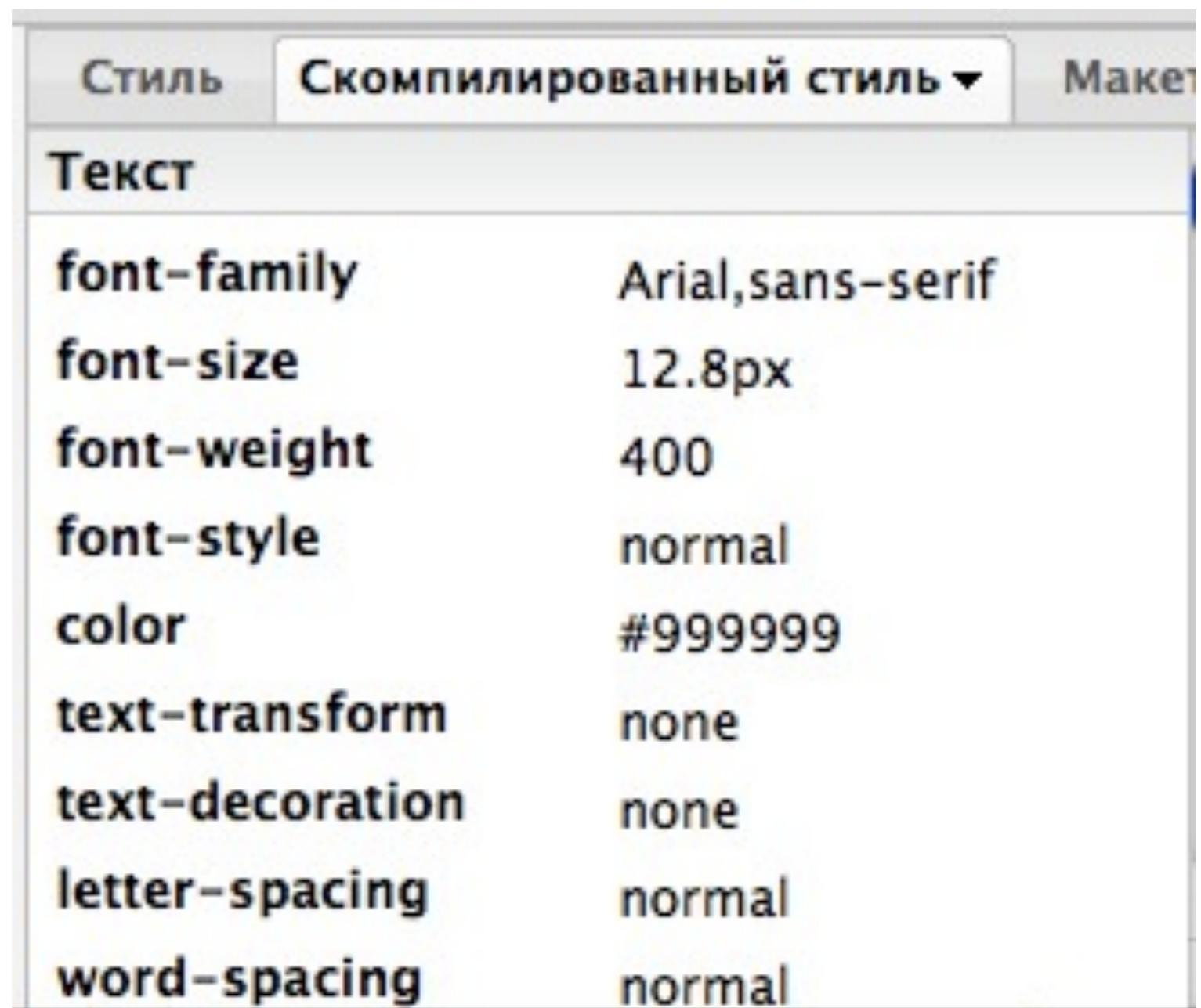
Стиль Скомпилированный стиль Макет

checkbox Показывать CSS браузера  
output Expand Shorthand Properties  
output  
radio :active  
radio :hover  
p, dl, multicol  
{  
display: block;  
margin: 1em 0;  
}

html.css (строка 66)  
**<Система>**

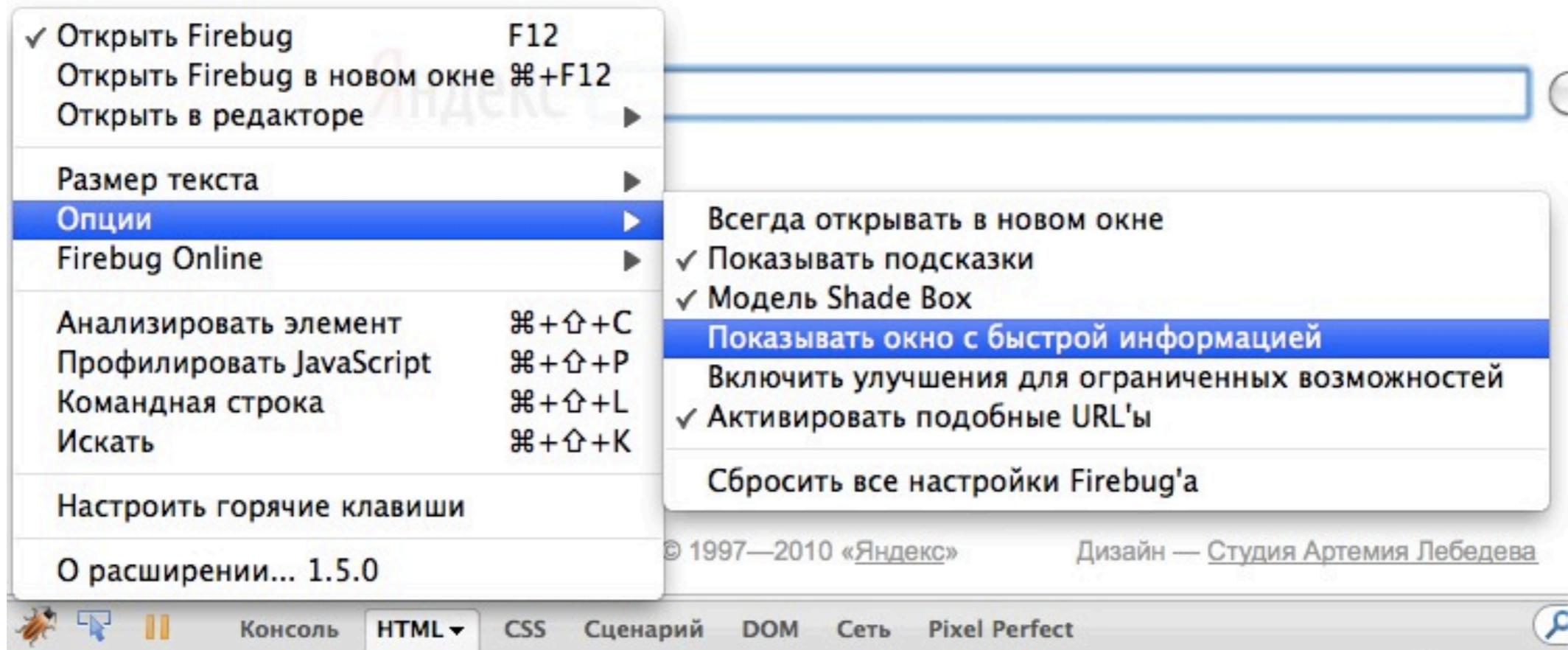
```
checkbox Показывать CSS браузера
output Expand Shorthand Properties
output
radio :active
radio :hover
p, dl, multicol
{
display: block;
margin: 1em 0;
}
```





The screenshot shows a browser's developer tools or style editor interface. The top navigation bar includes tabs for 'Стиль' (Style), 'Скомпилированный стиль' (Compiled Style) with a dropdown arrow, and 'Макет' (Layout). The main content area is titled 'Текст' (Text) and lists the following CSS properties and values:

<b>font-family</b>	Arial, sans-serif
<b>font-size</b>	12.8px
<b>font-weight</b>	400
<b>font-style</b>	normal
<b>color</b>	#999999
<b>text-transform</b>	none
<b>text-decoration</b>	none
<b>letter-spacing</b>	normal
<b>word-spacing</b>	normal



Быстрая информация

nodeName: HEADER

id: header

offsetWidth: 343

offsetHeight: 236

Скомпилированный стиль

width: 343px

height: 236px

position: fixed

top: 53px

right: 575px

bottom: 125px

left: 46px

margin-top: 0px

margin-right: 0px

margin-bottom: 0px

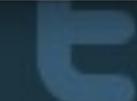
margin-left: 0px

color: #FFFFFF

display: block

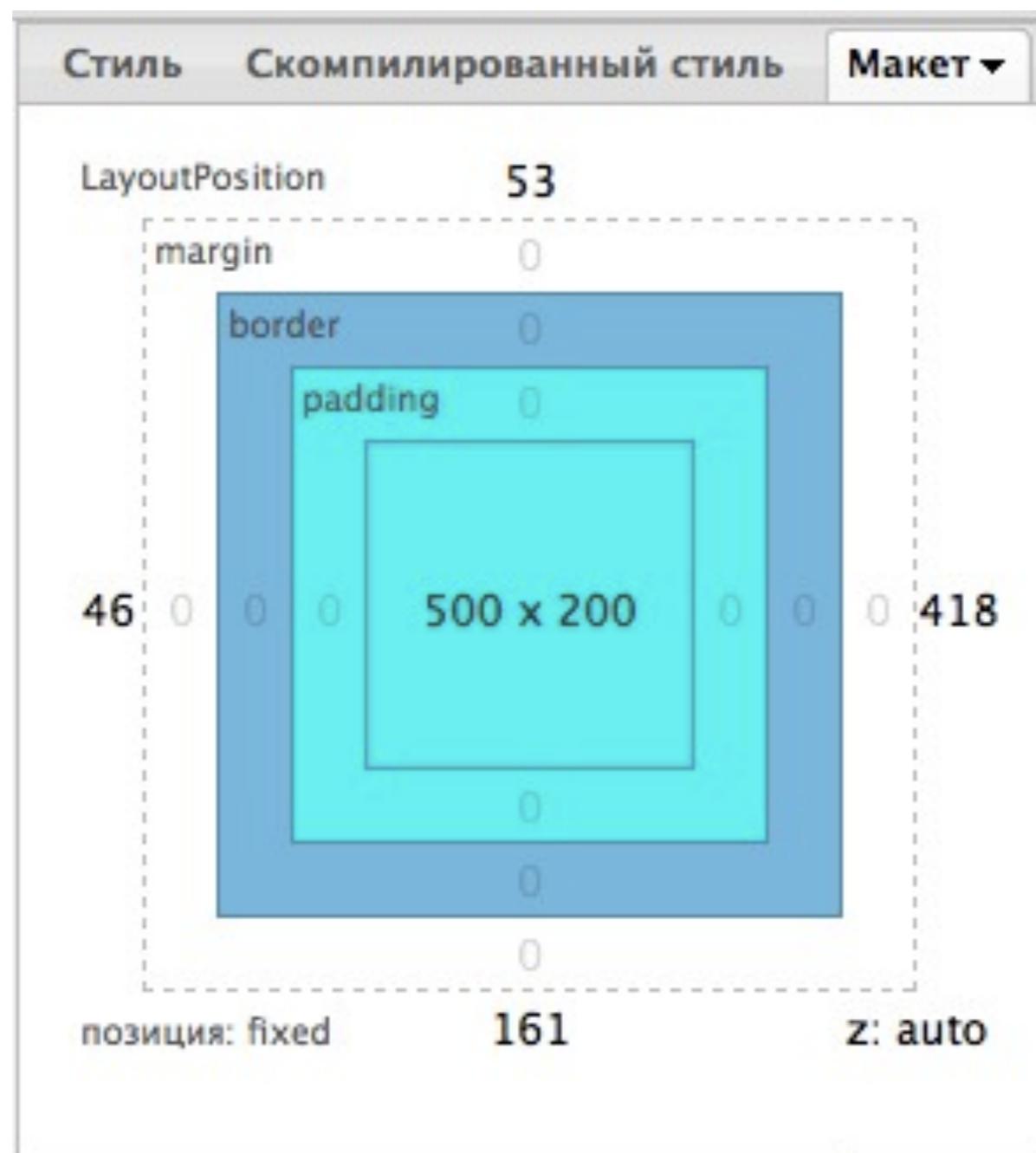
visibility: visible

# Web standards Days



@webstandards\_ru

[Написать про Web Standards Days](#)



# Редактирование

**«Не отходя от кассы»**

**HTML**

**CSS**

**JavaScript**



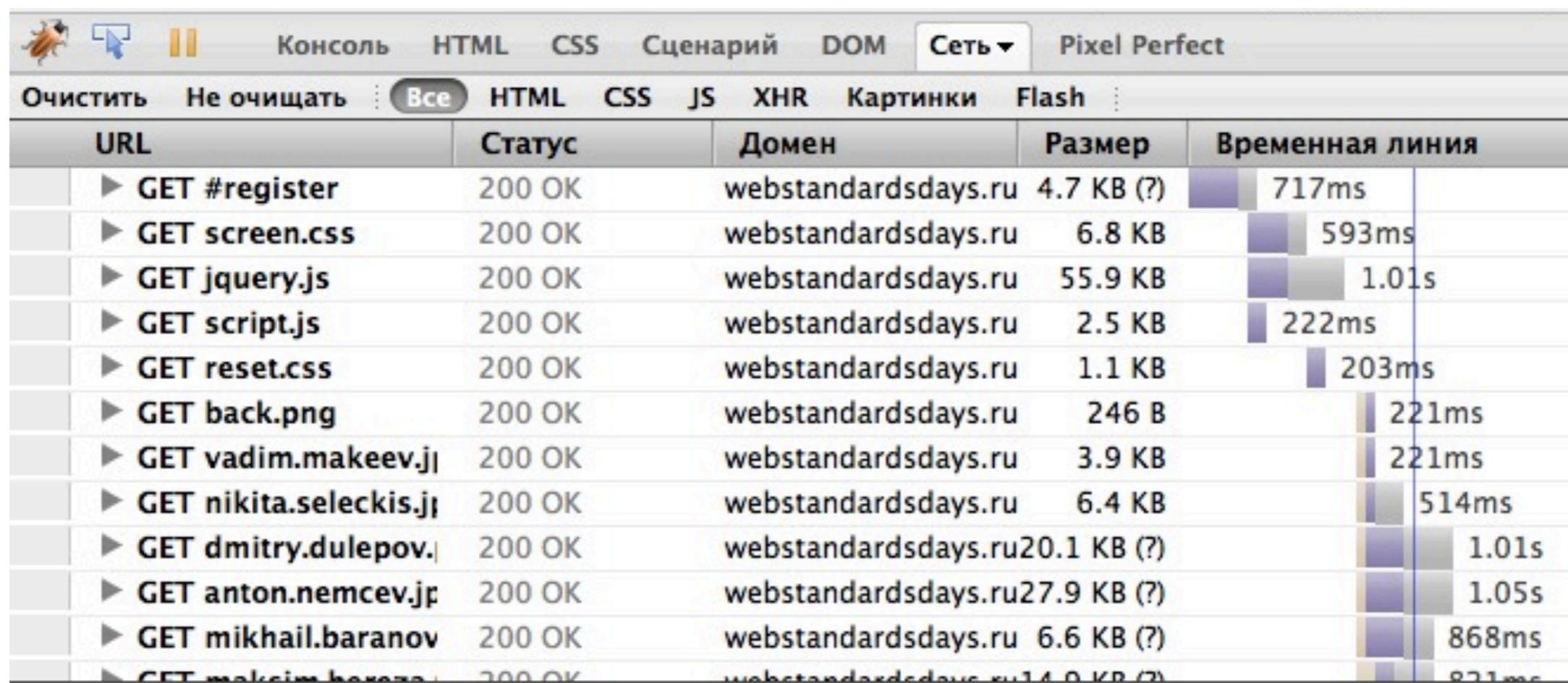
# **Загрузка страницы**

**Скорость**

**Порядок загрузки**

**Headers**

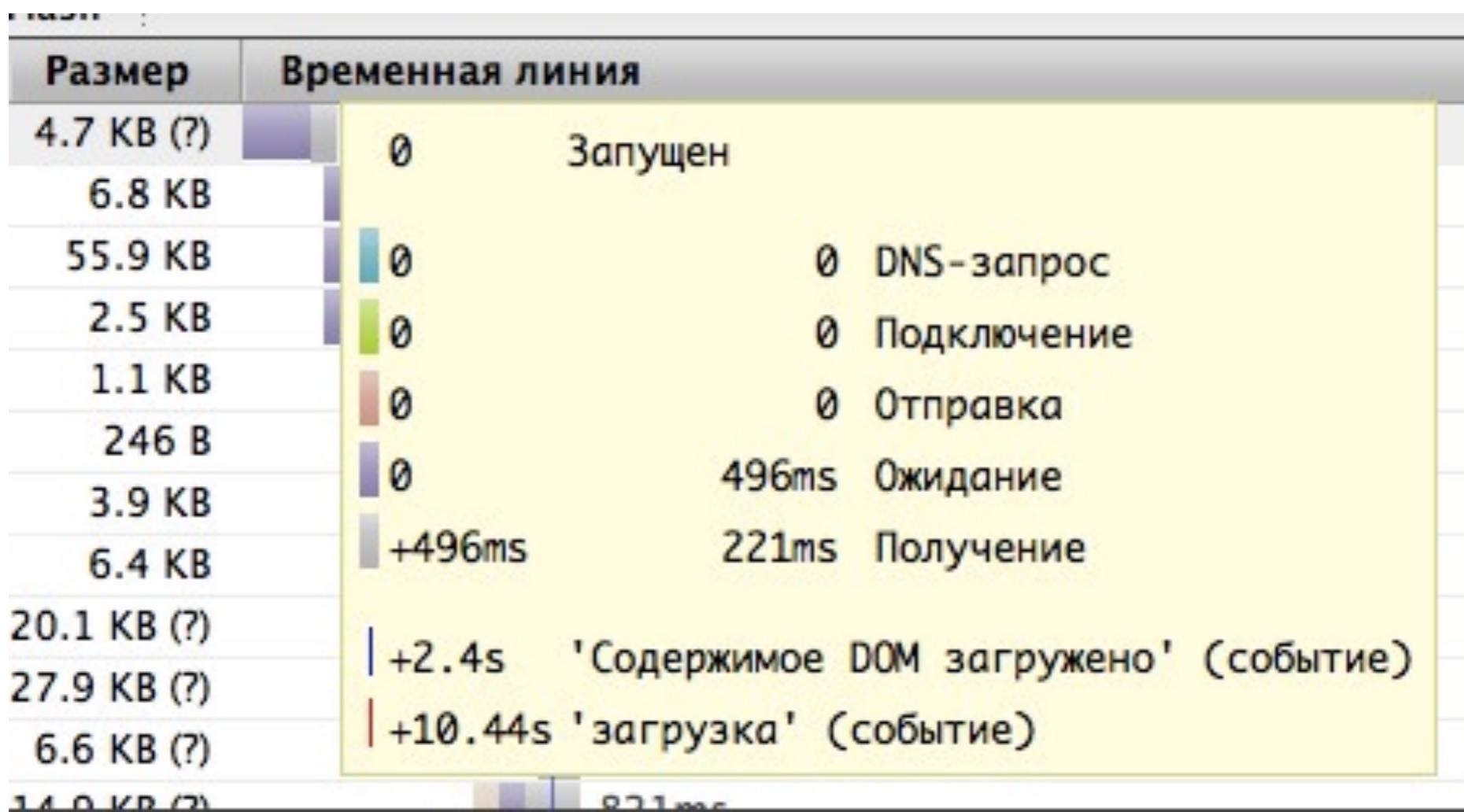




The screenshot shows the Firebug Network panel with the following details:

- Toolbar:** Includes icons for bug, zoom, and pause, followed by tabs: Консоль (Console), HTML, CSS, Сценарий (Script), DOM, Сеть (Network), Pixel Perfect.
- Filter Bar:** Includes очистить (Clear) and Не очищать (Do not clear) buttons, and a dropdown menu set to Все (All).
- Table Headers:** URL, Статус (Status), Домен (Domain), Размер (Size), Временная линия (Timeline).
- Table Data:** A list of network requests:
 

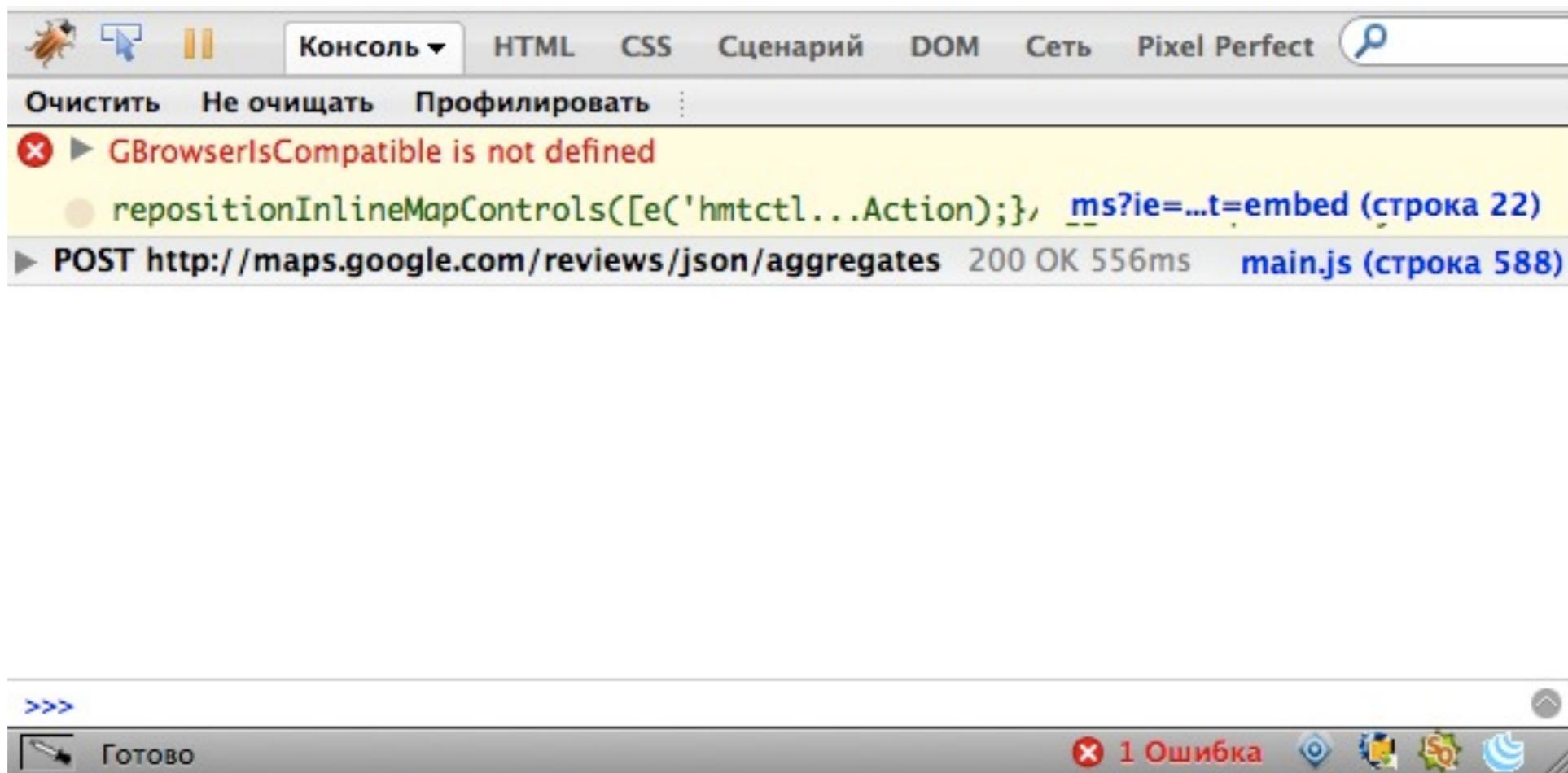
URL	Статус	Домен	Размер	Временная линия
▶ GET #register	200 OK	webstandardsdays.ru	4.7 KB (?)	717ms
▶ GET screen.css	200 OK	webstandardsdays.ru	6.8 KB	593ms
▶ GET jquery.js	200 OK	webstandardsdays.ru	55.9 KB	1.01s
▶ GET script.js	200 OK	webstandardsdays.ru	2.5 KB	222ms
▶ GET reset.css	200 OK	webstandardsdays.ru	1.1 KB	203ms
▶ GET back.png	200 OK	webstandardsdays.ru	246 B	221ms
▶ GET vadim.makeev.js	200 OK	webstandardsdays.ru	3.9 KB	221ms
▶ GET nikita.selectkis.js	200 OK	webstandardsdays.ru	6.4 KB	514ms
▶ GET dmitry.dulepov.js	200 OK	webstandardsdays.ru	20.1 KB (?)	1.01s
▶ GET anton.nemcev.js	200 OK	webstandardsdays.ru	27.9 KB (?)	1.05s
▶ GET mikhail.baranov.js	200 OK	webstandardsdays.ru	6.6 KB (?)	868ms
▶ GET maxim.borodin.js	200 OK	webstandardsdays.ru	14.0 KB (?)	971ms

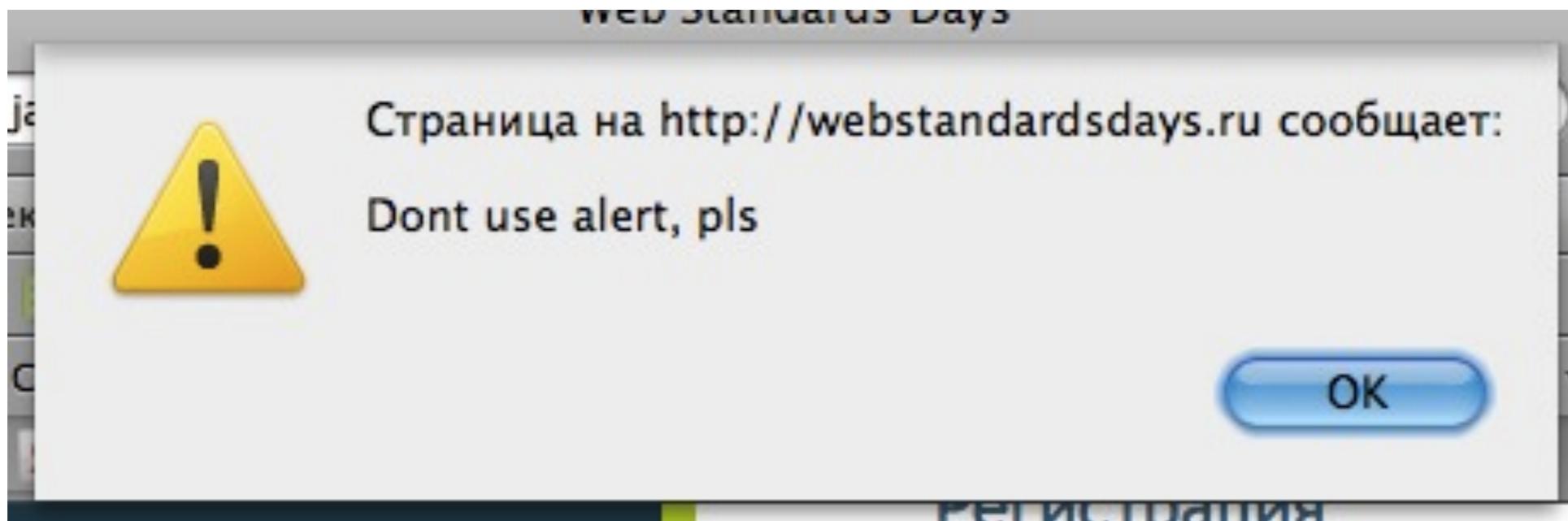


# JavaScript

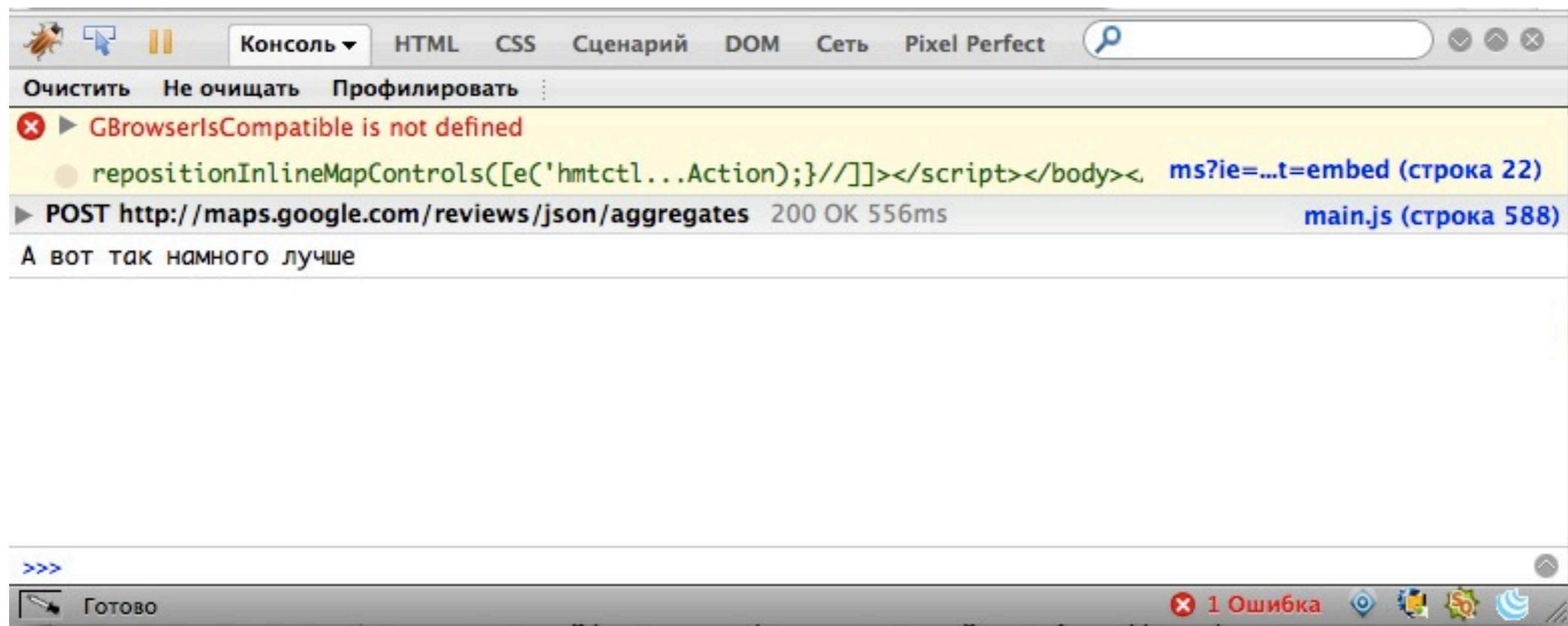


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# console.log('А вот так намного лучше');



<http://getfirebug.com/>  
wiki/  
index.php/  
Console API

# Ложка дёгтя

## Совместимость Firebug и Firefox

# Где лого?



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STAR WARS  
EPISODE II  
SEND IN THE CLONES



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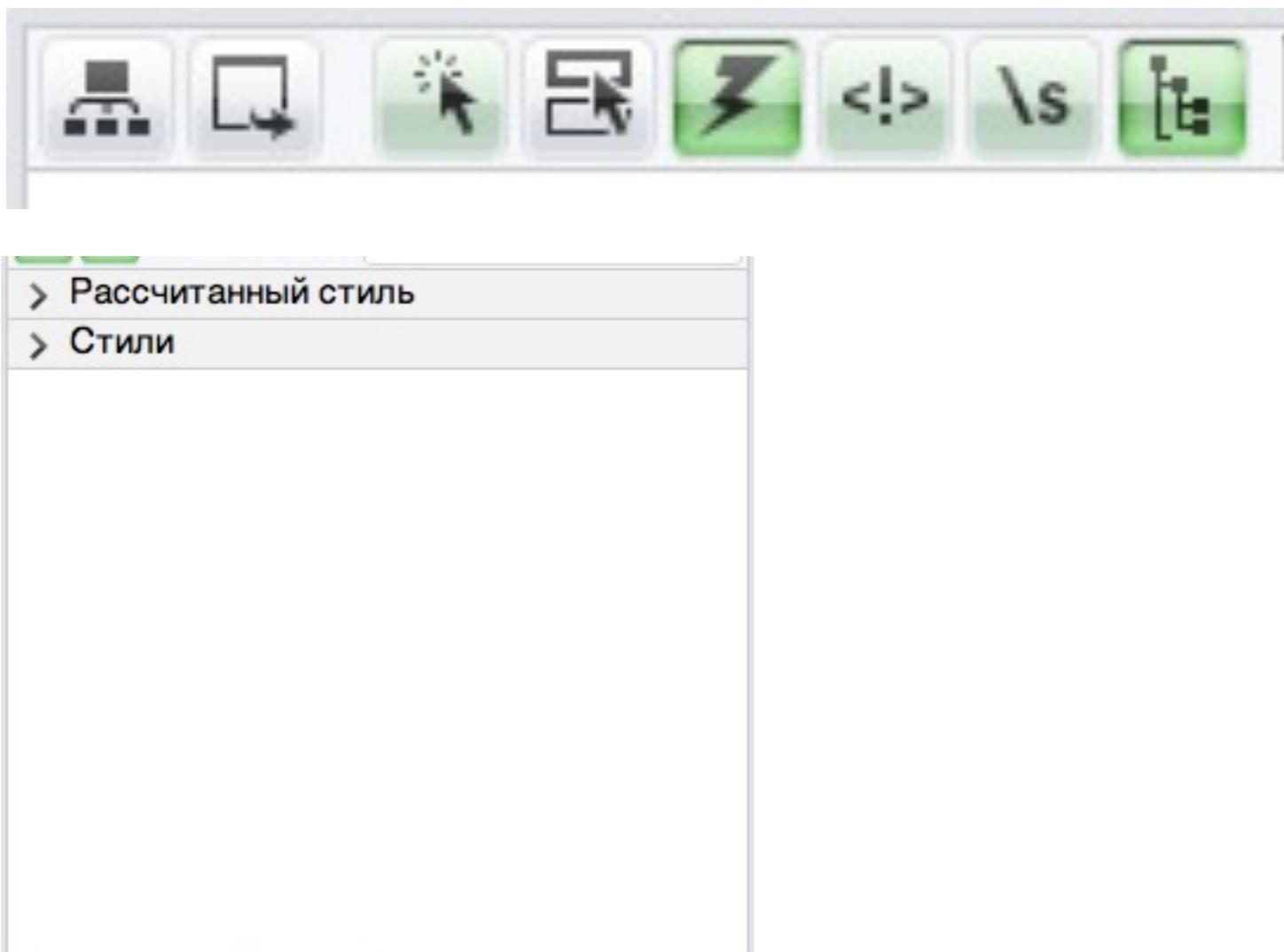
**9.5**

**opera**

**и выше**

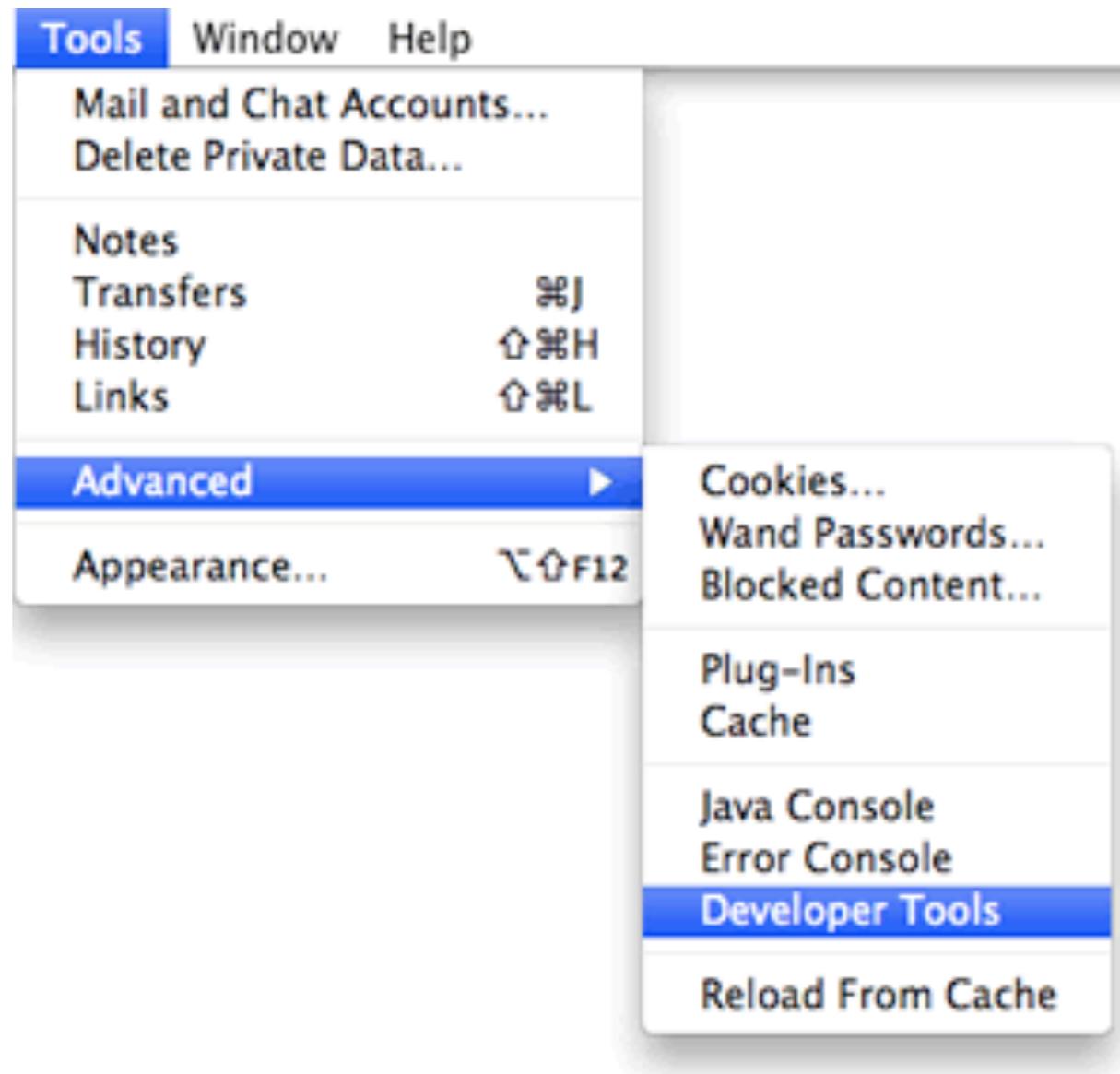


# Плюсы





# Не плюсы



The screenshot shows a web browser window for the "Web Standards Days" conference. The main content area displays the conference logo, date (22 мая 2010), location (Рига), and a sidebar with links for the program, participants, registration, and venue. A Twitter sidebar on the left shows a tweet from @webstandards\_ru. Below the browser window, the Opera DOM Inspector is open, showing the HTML structure of the page. The DOM tree includes the document node, an HTML element with attributes xmlns="http://www.w3.org/1999/xhtml" lang="ru" xml:lang="ru", and a head section containing meta and link elements. The status bar at the bottom of the browser indicates "Ошибка обновления" (Update error) and "100%".

Web Standards Days

22 мая 2010  
Рига

Программа встречи  
Участники и партнёры  
Регистрация  
Место проведения

Объединение разработчиков «Веб-стандарты» и Школа веб-технологий представляет новый формат мероприятий под названием «Web Standards Days».

Web Standards Days (WSD) является уникальной международной научной конференцией для специалистов

DOM Скрипты Сеть Консоль ошибок Параметры

#document

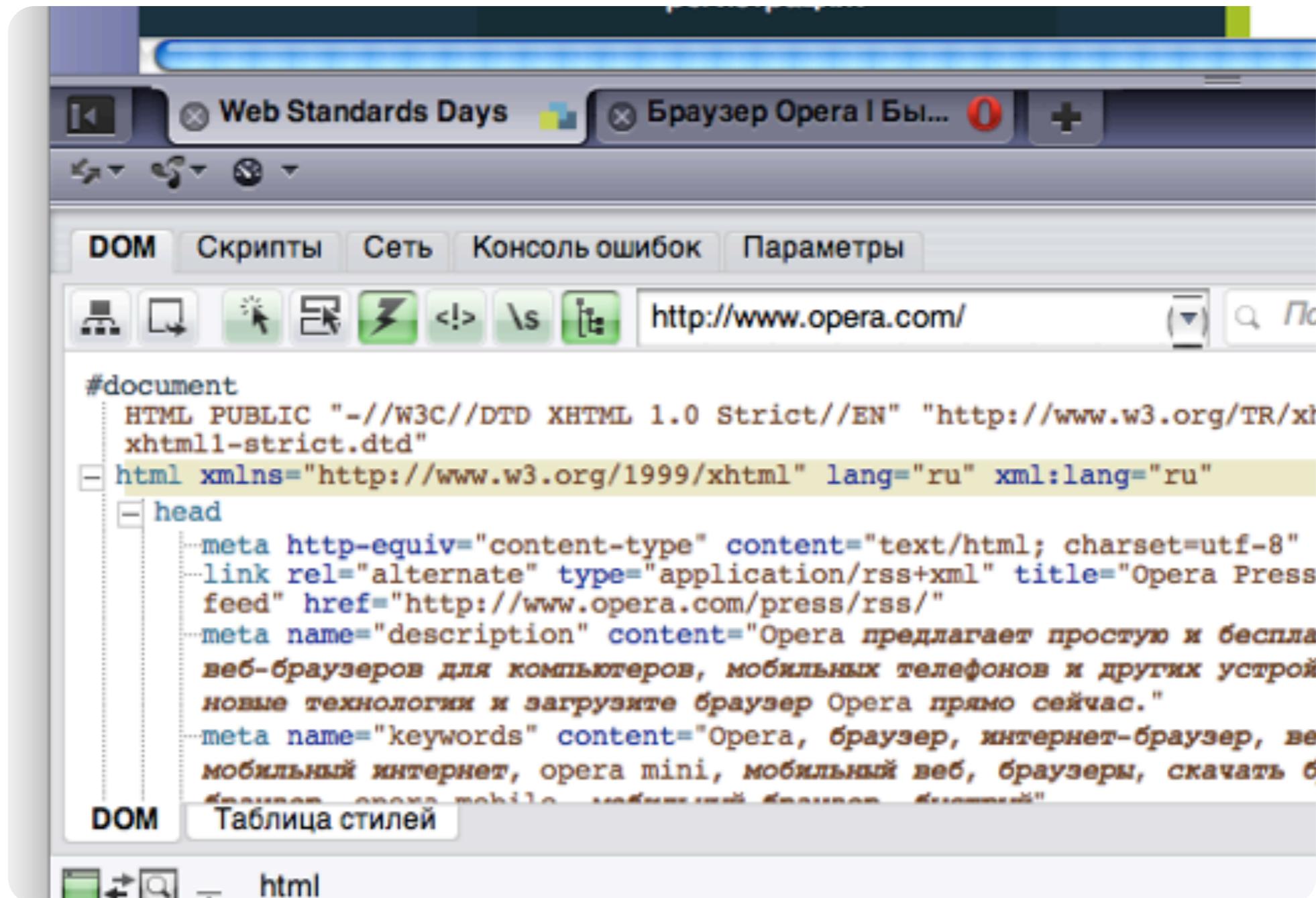
HTML PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd"

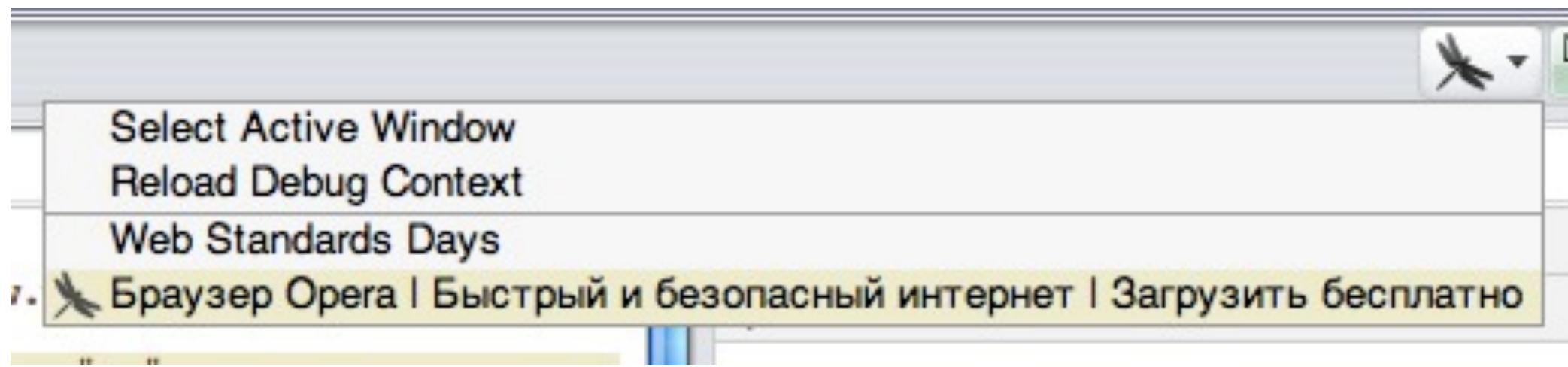
html xmlns="http://www.w3.org/1999/xhtml" lang="ru" xml:lang="ru"

head

meta http-equiv="content-type" content="text/html; charset=utf-8"

link rel="alternate" type="application/rss+xml" title="Opera Press Releases RSS feed" href="http://www.opera.com/press/rss/"/>

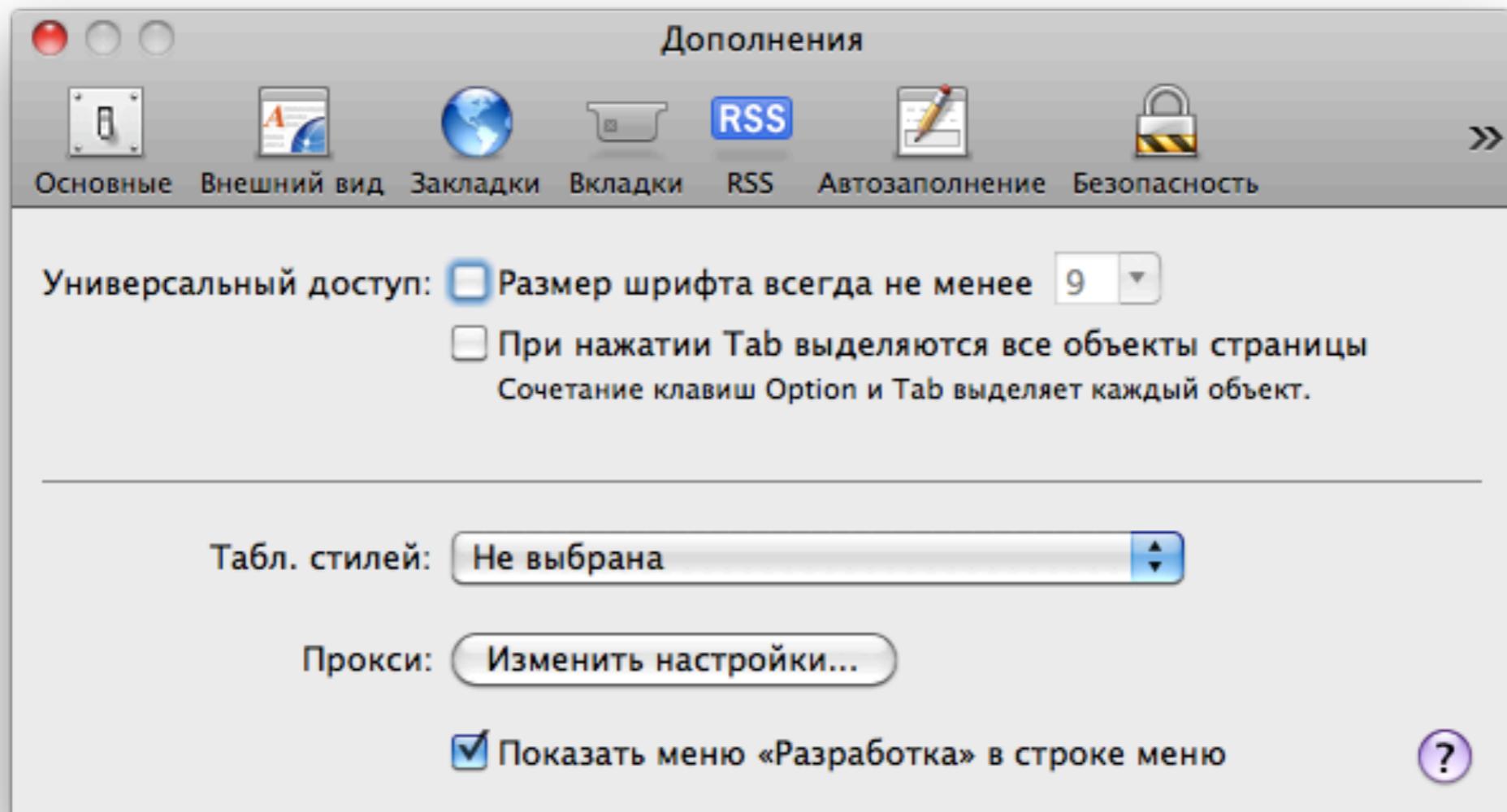




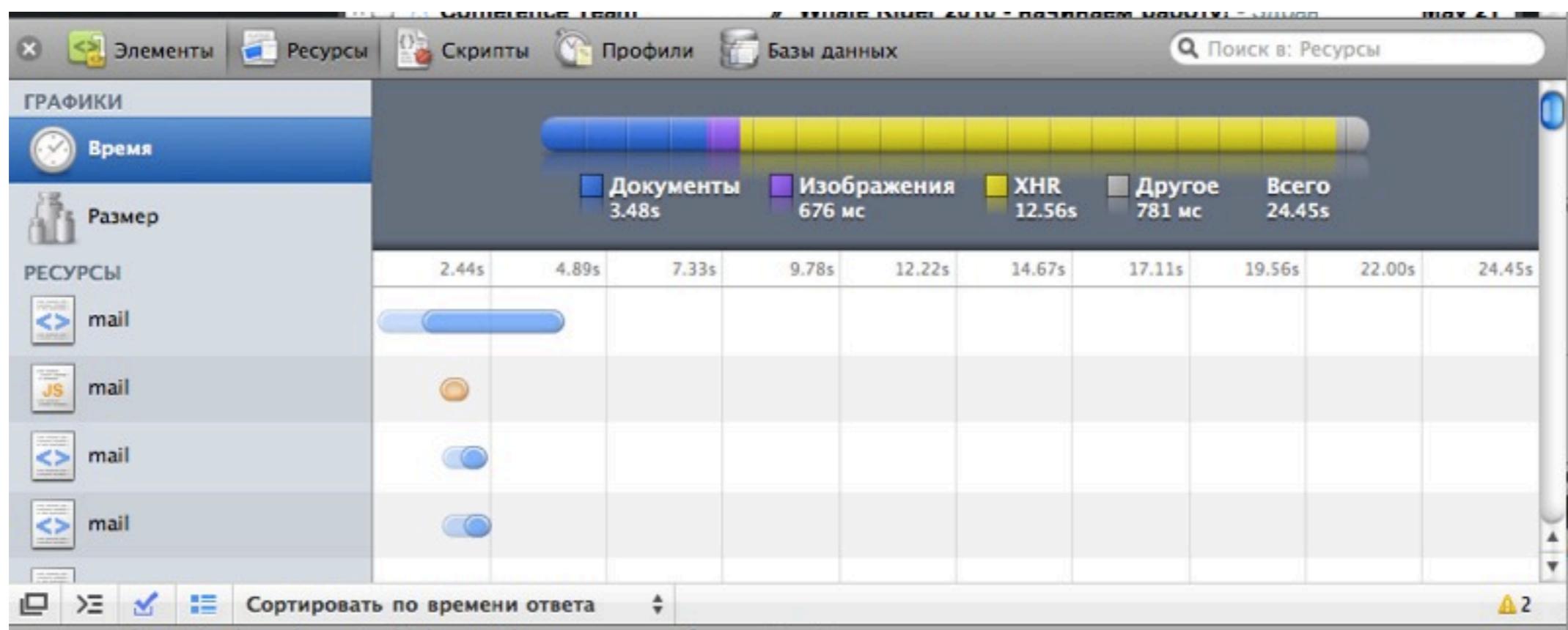


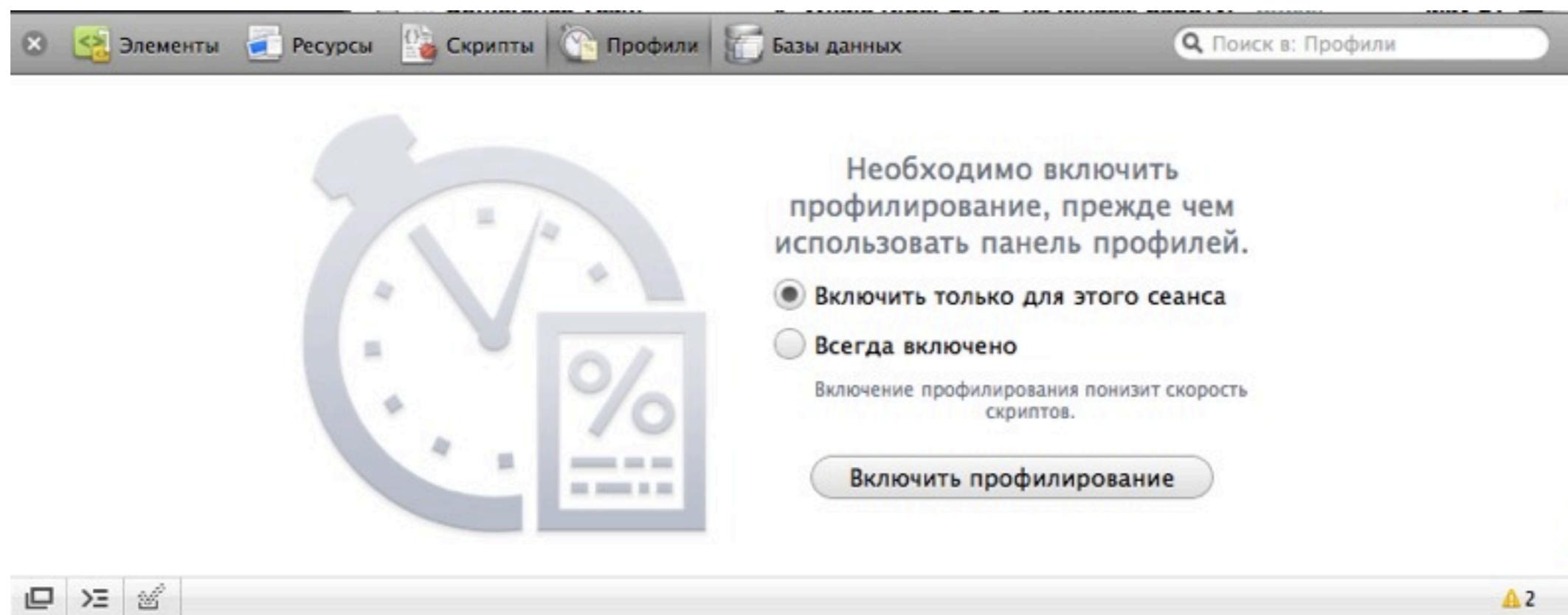
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- ▶ Стили
- ▶ Размеры
- ▶ Свойства







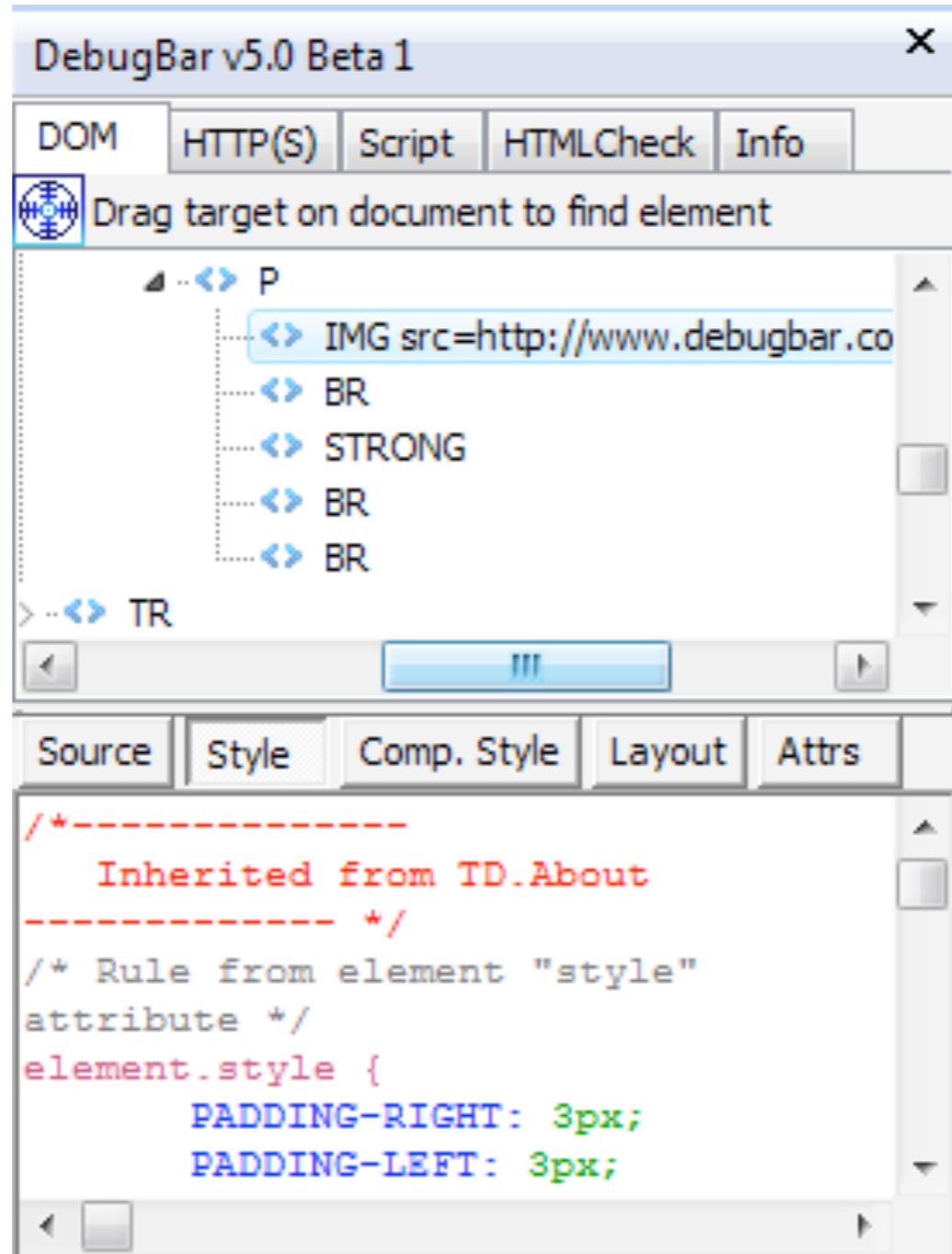
**IE 8+ – встроен**

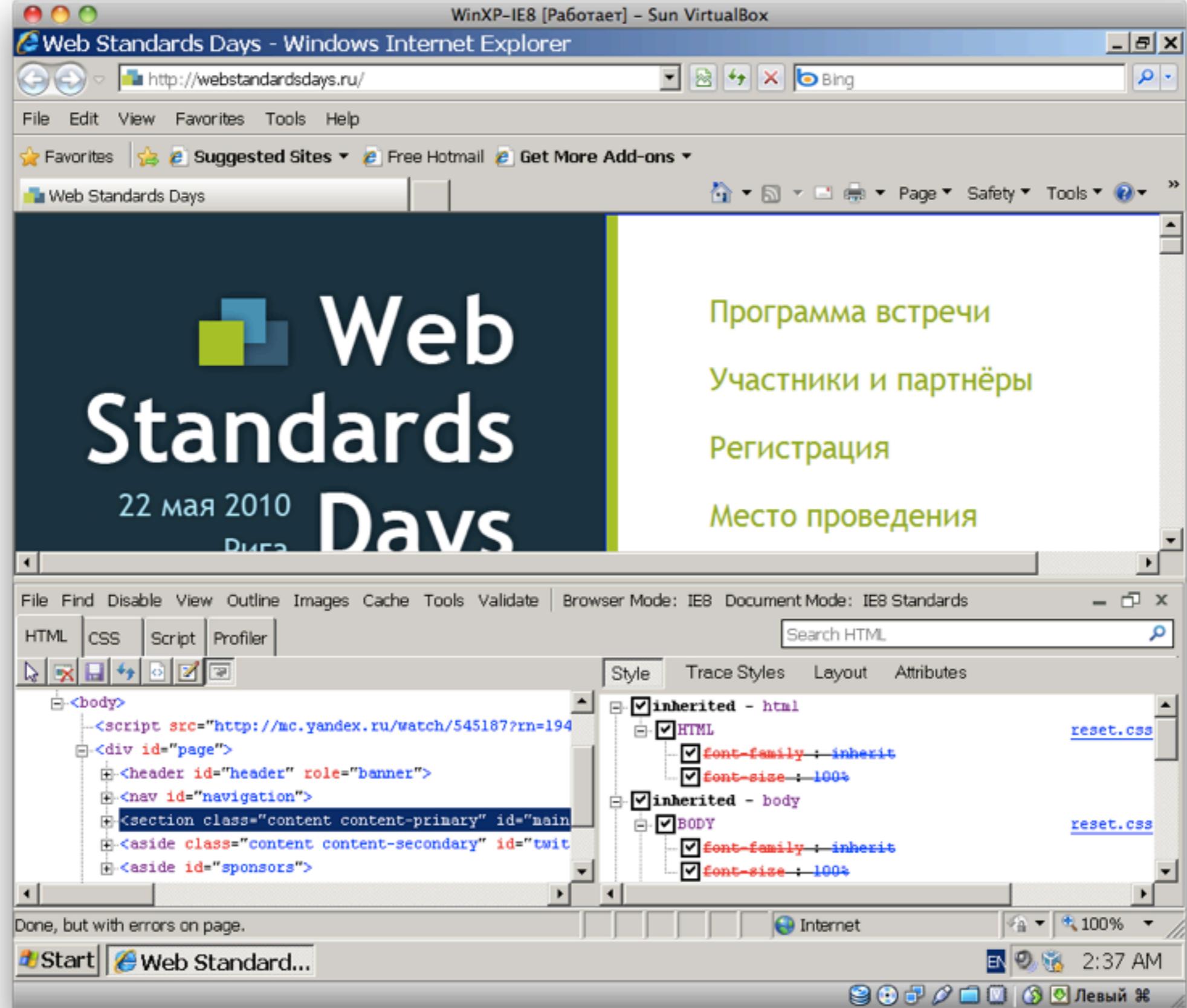
**IE 6-7**

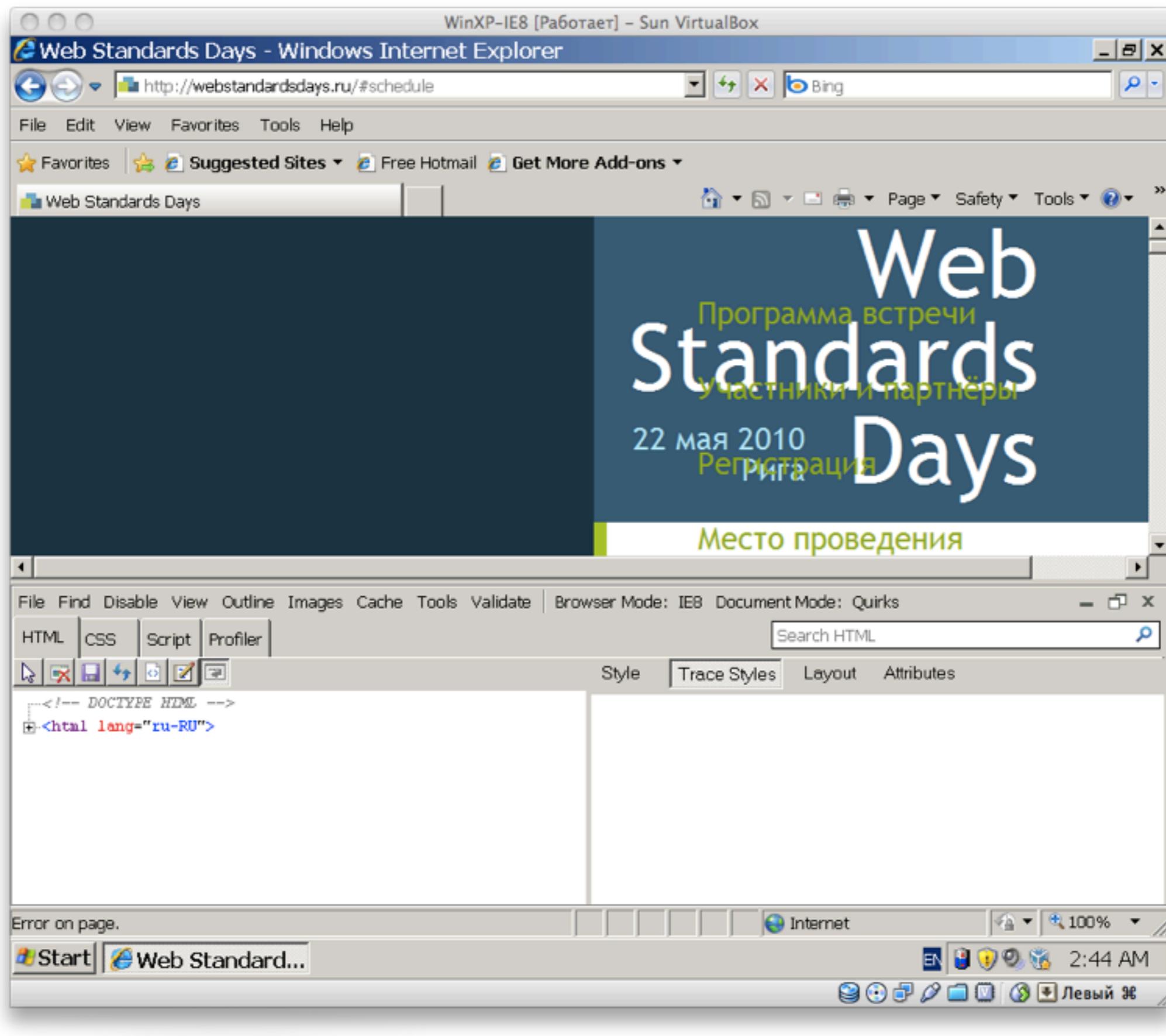
IE Developer Toolbar  
[microsoft.com](http://microsoft.com)

Debugbar  
[my-debugbar.com](http://my-debugbar.com)









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# Не файрбагом единым

Web Developer Toolbar

Pixel Perfect

YSlow

Меню «разработка»



# Кто вкуснее?





# Регулярное тестирование

## Поиск специфических багов

## Изучение возможностей браузеров



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## CSS Tools: Diagnostic CSS

Validation is great, but it won't catch everything. For example, if you have a link where you forgot to add a URL value to the `href` attribute, the validator won't complain. The syntax is valid, even if it's a broken experience. Similarly, the validator will be happy to let through empty `class` and `id` values.

Maybe you wanted things that way, but more likely not. That's where diagnostic styles come in.

With a diagnostic stylesheet, you can quickly see where your markup might have some trouble. If you want to see this in action, there are two demos to check out:

1. [The more advanced version](#), which uses the `:not()` syntax and outlines and so isn't suitable for IE7
2. [The IE7 version](#), which does much the same things but in a less straightforward manner and uses borders instead of outlines

# Михаил Барапов

mikhail@web-standards.ru

[twitter.com/mikhail\\_baranov](https://twitter.com/mikhail_baranov)

