

Михаил Баранов

Средства для разработчиков — какое вкуснее?

Поиск ошибок «от забора и до обеда»



1996^{год}
или ОКОЛО ТОГО



Web Standards Days | Рига
22.05.2010



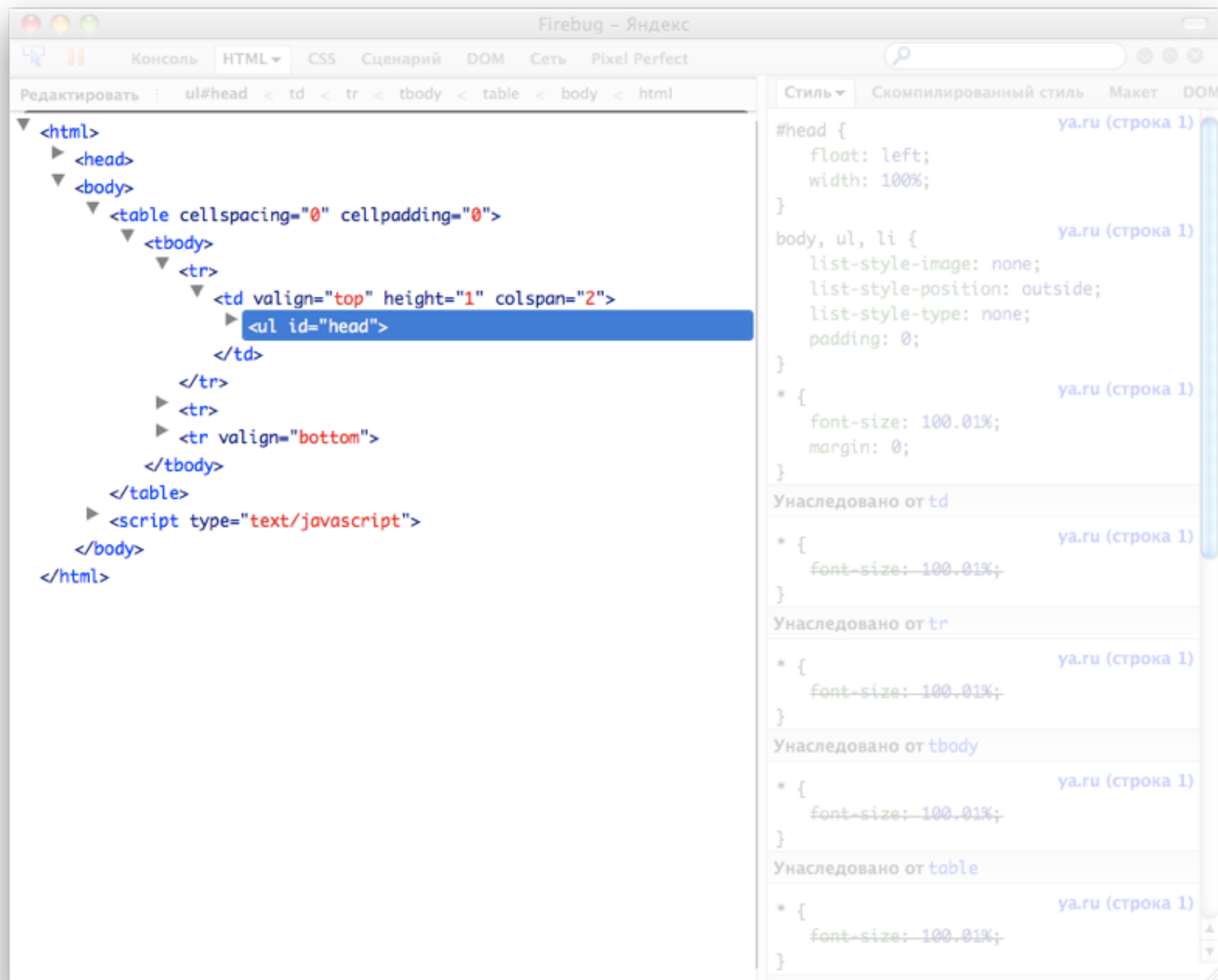
Firebug

getFirebug.com
† getFirebug.ru

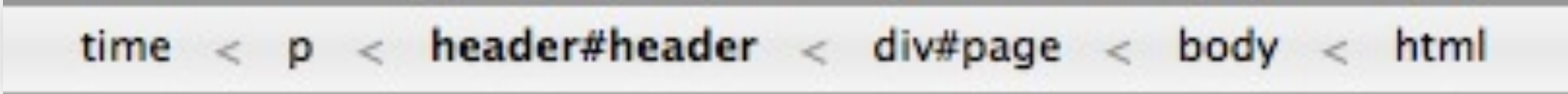
Чтение кода

```
Исходный код: http://ya.ru/

<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))/1000+G }; var
H=document.createElement("script"); H.src=E("stred","F","jclck"); document.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))/1000+((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></td><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="/n0/tm6/s1" id="stpar2" name="stpar2" type="hidden">
<input value="/s1" id="stpar4" name="stpar4" type="hidden"></form></td><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
/suggest-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>
```

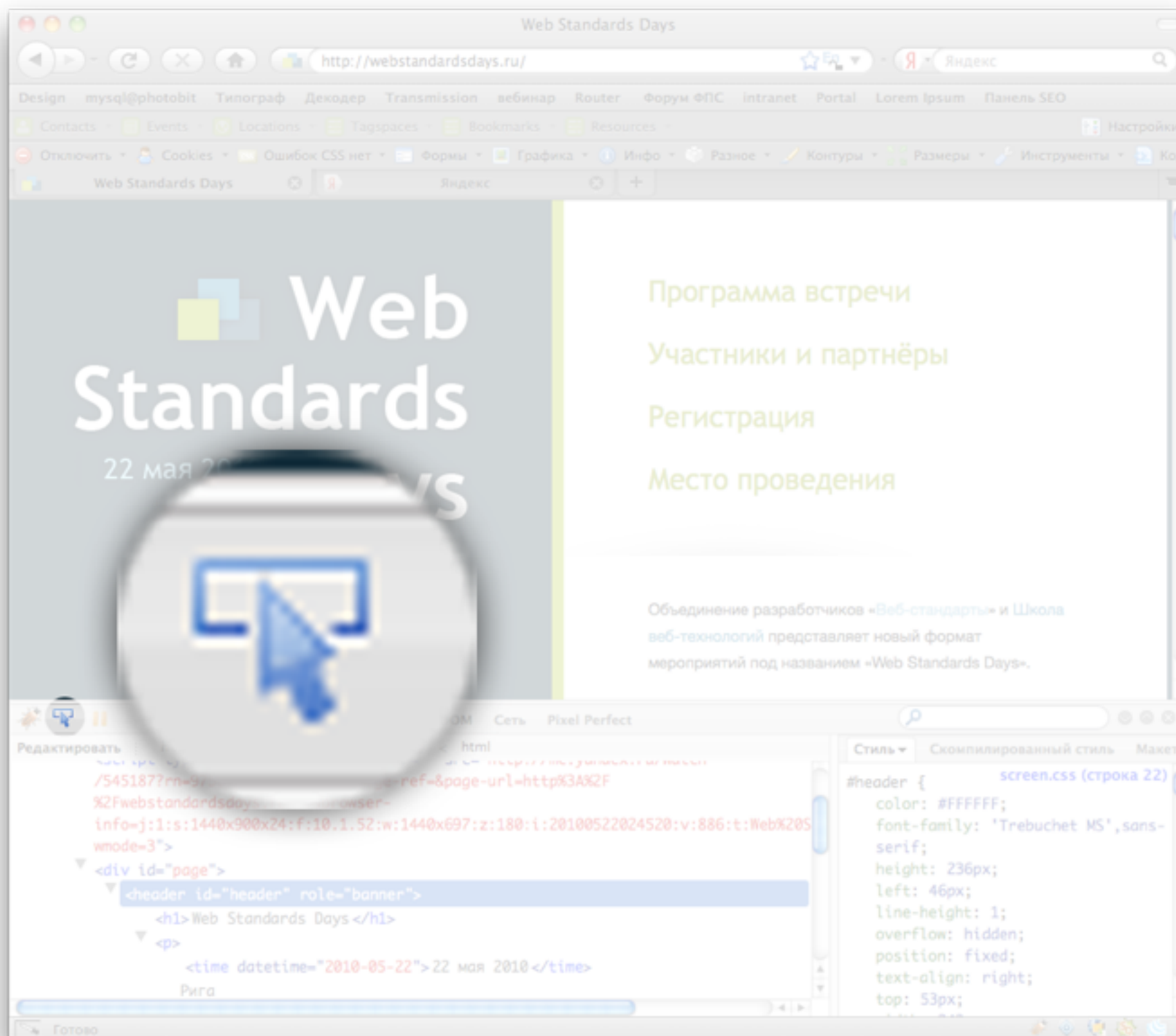


Анализ структуры кода



Проще тыкнуть, чем найти

Ctrl+Shift+C



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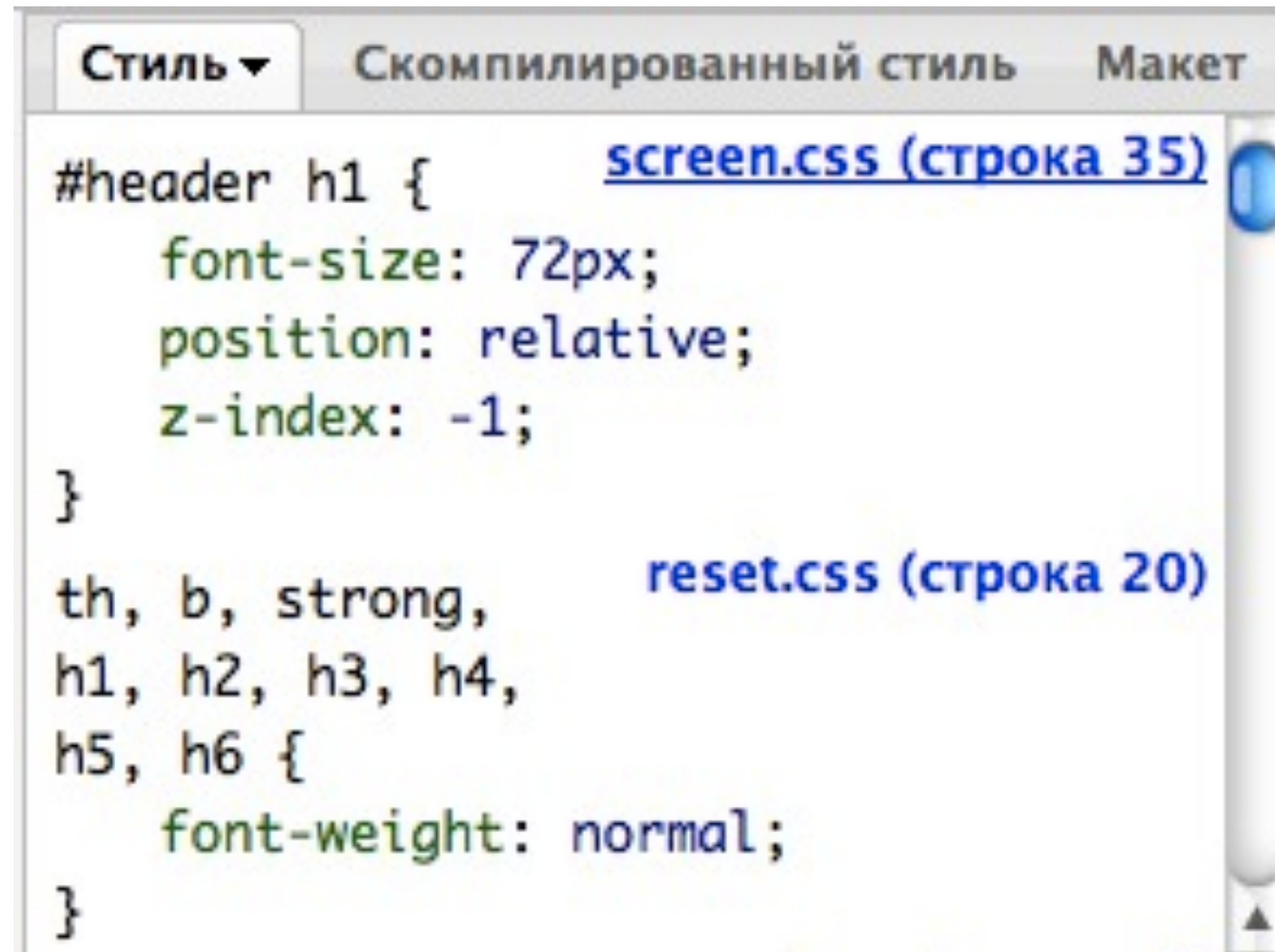
$$T = a + b \log_2(D/W + 1)$$



Ну...
и что дальше?

CSS

Наследование
Переопределение
Стили браузера



Стиль ▼ Скомпилированный стиль Макет

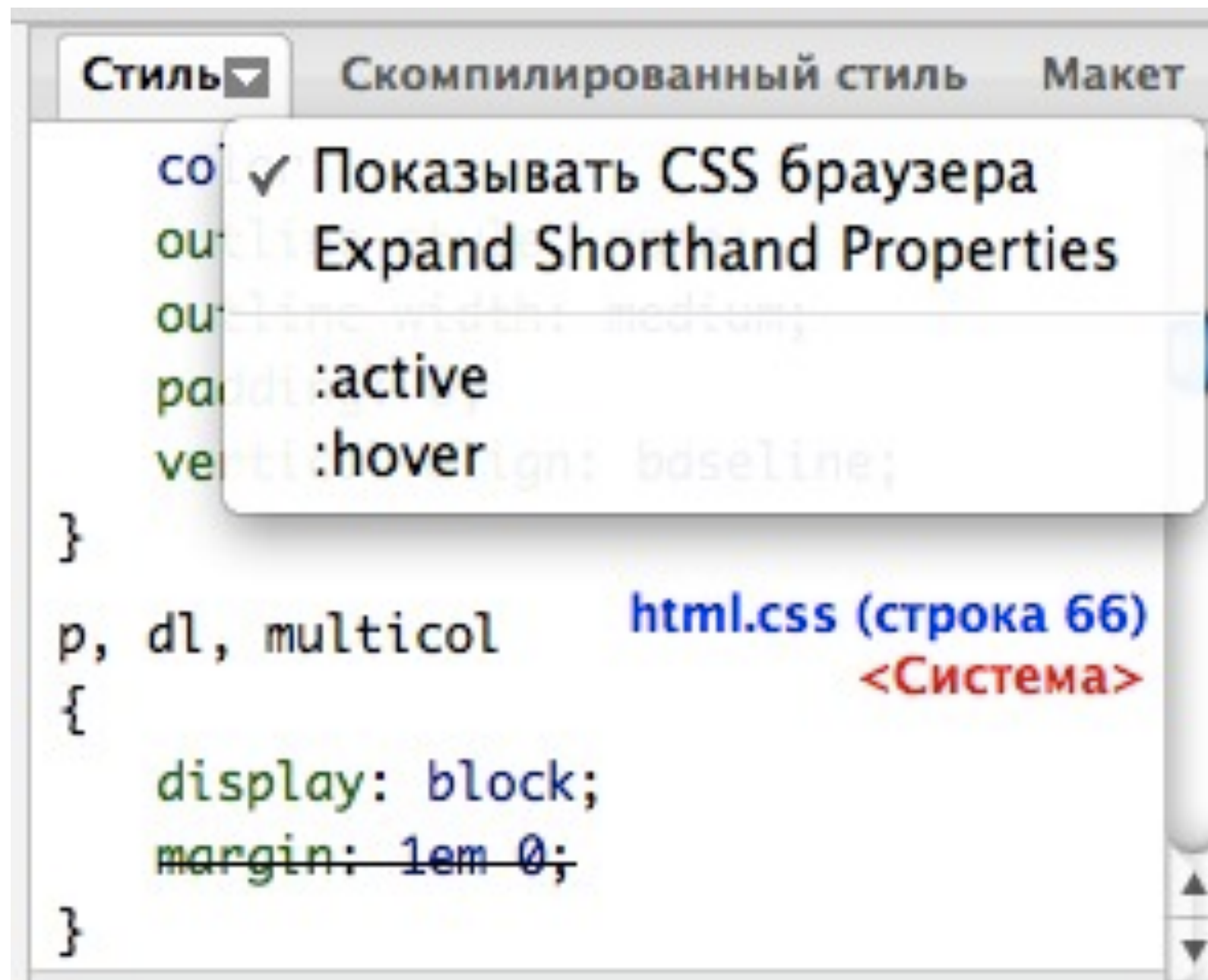
[screen.css \(строка 35\)](#)

```
#header h1 {  
    font-size: 72px;  
    position: relative;  
    z-index: -1;  
}
```

[reset.css \(строка 20\)](#)

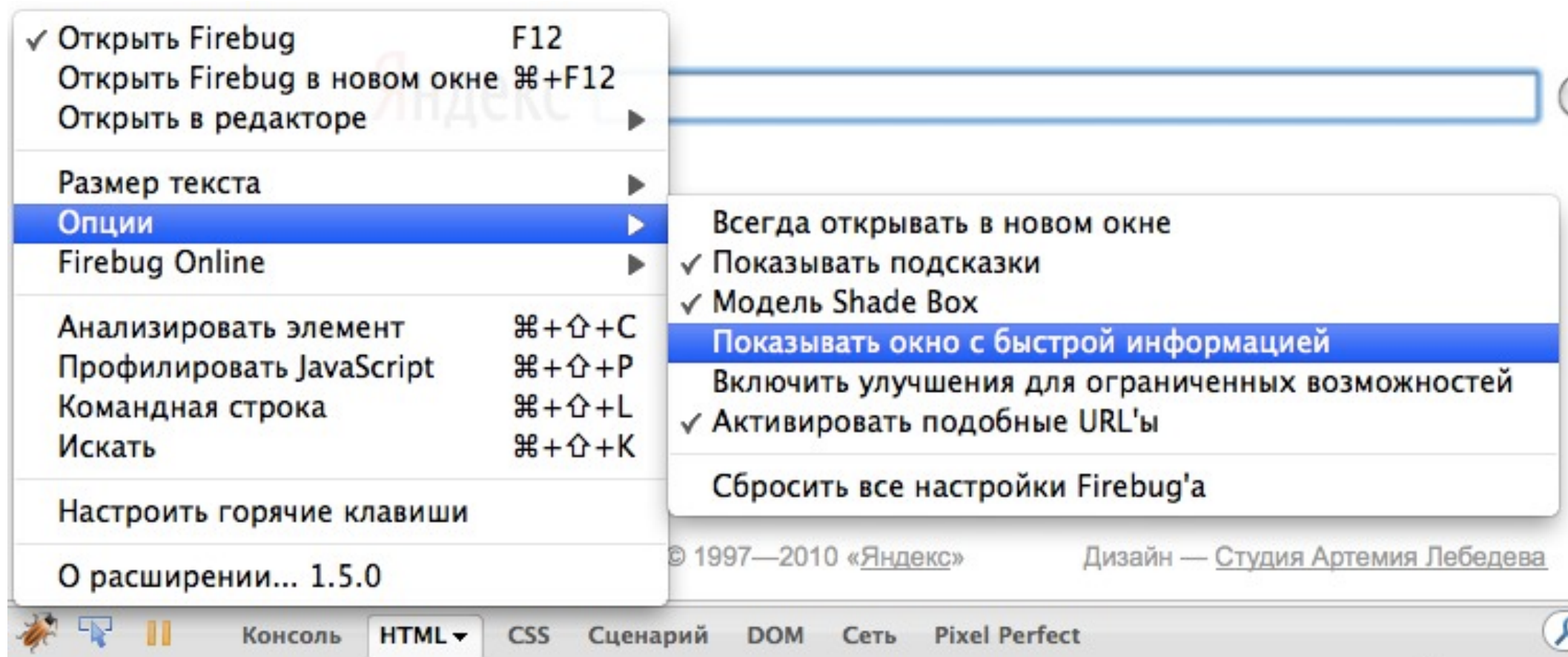
```
th, b, strong,  
h1, h2, h3, h4,  
h5, h6 {  
    font-weight: normal;  
}
```

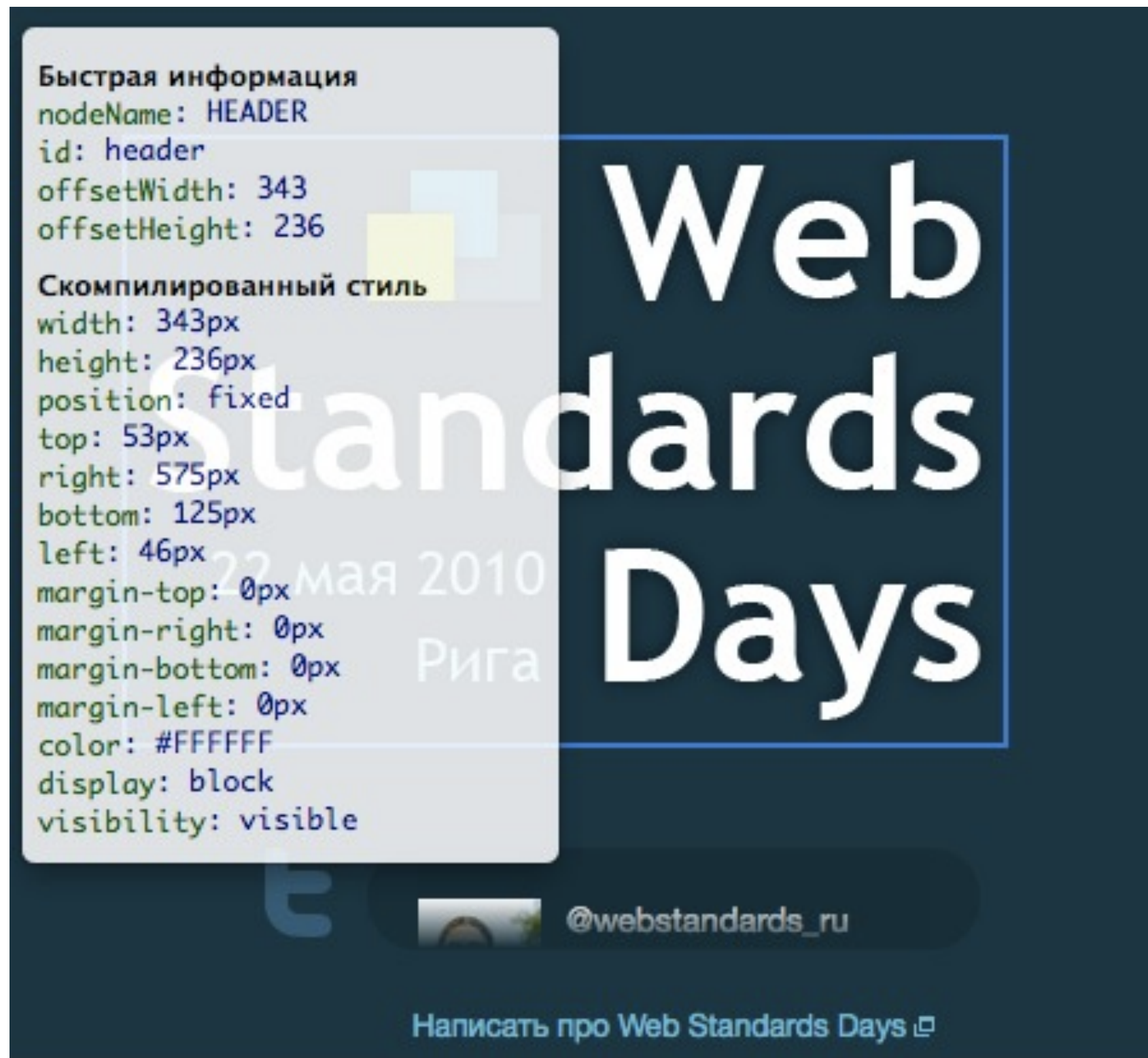
```
fieldset, form,  
label, legend,  
table, caption,  
tbody, tfoot,  
thead, tr, th,  
td {  
    font-family: inherit;  
    font-size: 100%;  
}
```

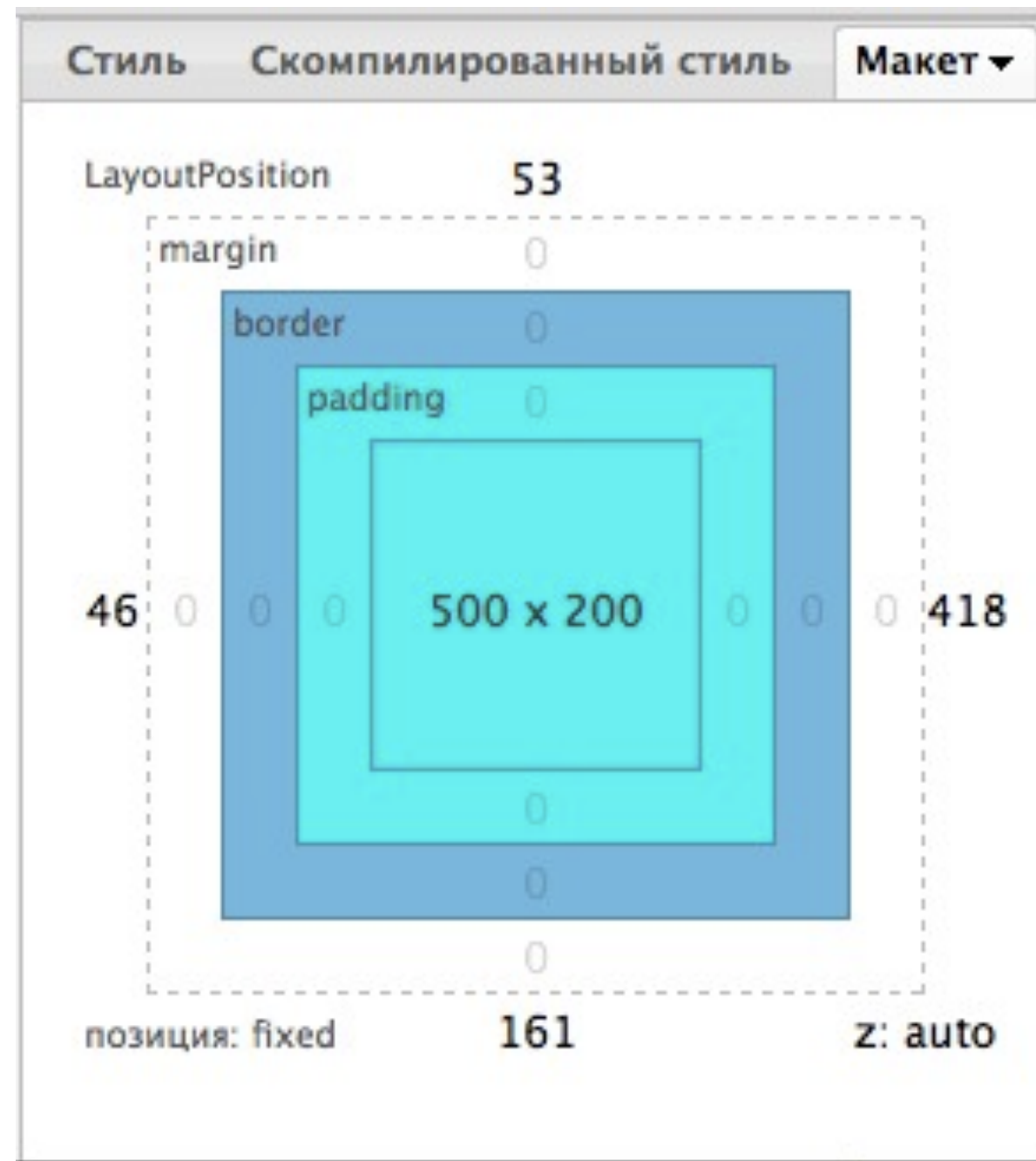




Стиль		Скомпилированный стиль ▼	Макет
Текст			
font-family		Arial,sans-serif	
font-size		12.8px	
font-weight		400	
font-style		normal	
color		#999999	
text-transform		none	
text-decoration		none	
letter-spacing		normal	
word-spacing		normal	







Редактирование

«Не отходя от кассы»

HTML

CSS

JavaScript

Загрузка страницы

Скорость

Порядок загрузки

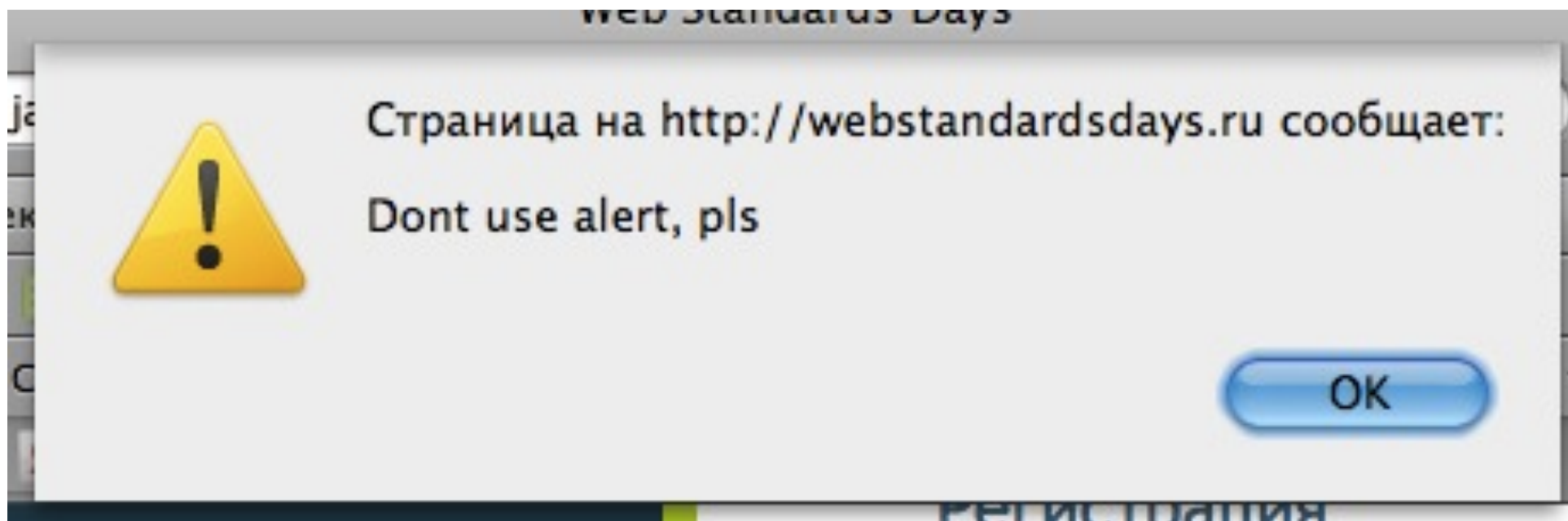
Headers

   Консоль HTML CSS Сценарий DOM Сеть Pixel Perfect				
Очистить Не очищать Все HTML CSS JS XHR Картинки Flash				
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.jl	200 OK	webstandardsdays.ru	3.9 KB	221ms
▶ GET nikita.seleckis.jl	200 OK	webstandardsdays.ru	6.4 KB	514ms
▶ GET dmitry.dulepov.jl	200 OK	webstandardsdays.ru	20.1 KB (?)	1.01s
▶ GET anton.nemcev.jp	200 OK	webstandardsdays.ru	27.9 KB (?)	1.05s
▶ GET mikhail.baranov	200 OK	webstandardsdays.ru	6.6 KB (?)	868ms
▶ GET maksim.kozlov	200 OK	webstandardsdays.ru	14.0 KB (?)	821ms

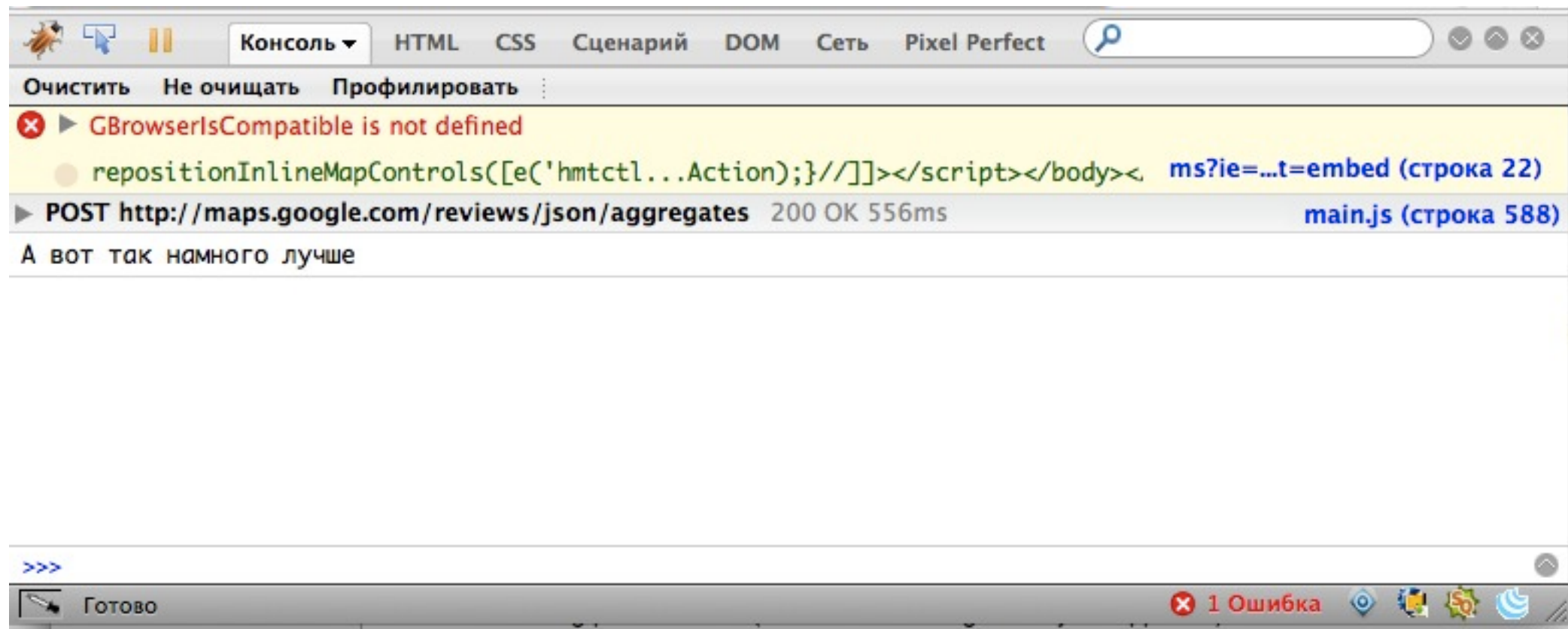
Размер	Временная линия		
4.7 KB (?)	0	Запущен	
6.8 KB			
55.9 KB	0	0	DNS-запрос
2.5 KB	0	0	Подключение
1.1 KB	0	0	Отправка
246 B	0	496ms	Ожидание
3.9 KB	+496ms	221ms	Получение
6.4 KB			
20.1 KB (?)	+2.4s 'Содержимое DOM загружено' (событие)		
27.9 KB (?)	+10.44s 'загрузка' (событие)		
6.6 KB (?)			
14.0 KB (?)			

JavaScript





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



[http://getfirebug.com/
wiki/
index.php/
Console_API](http://getfirebug.com/wiki/index.php/Console_API)

Ложка дёгтя

Совместимость Firebug и Firefox

Где лого?



STAR WARS
EPISODE II
SEND IN THE CLONES



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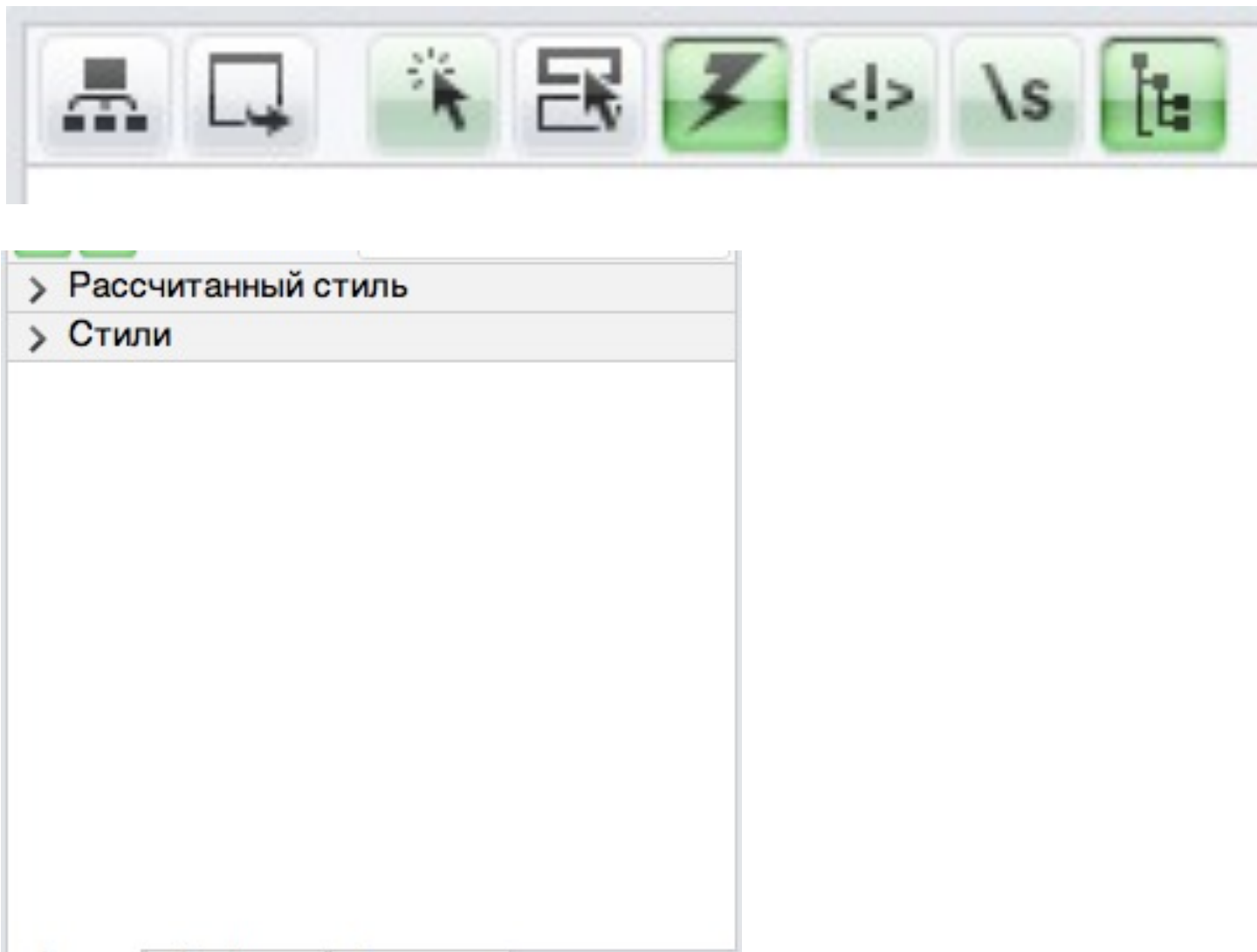




opera
9.5
и выше

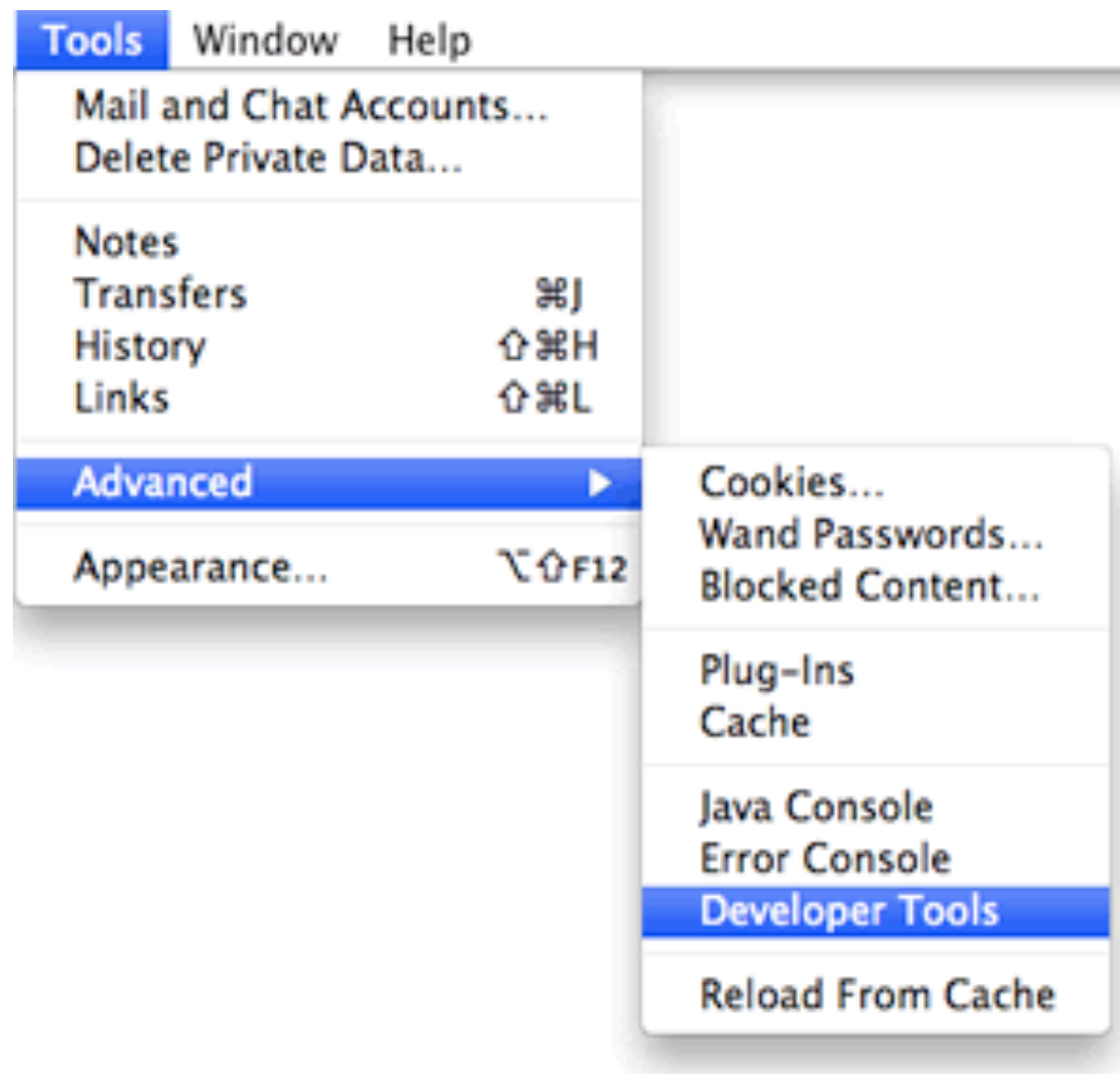


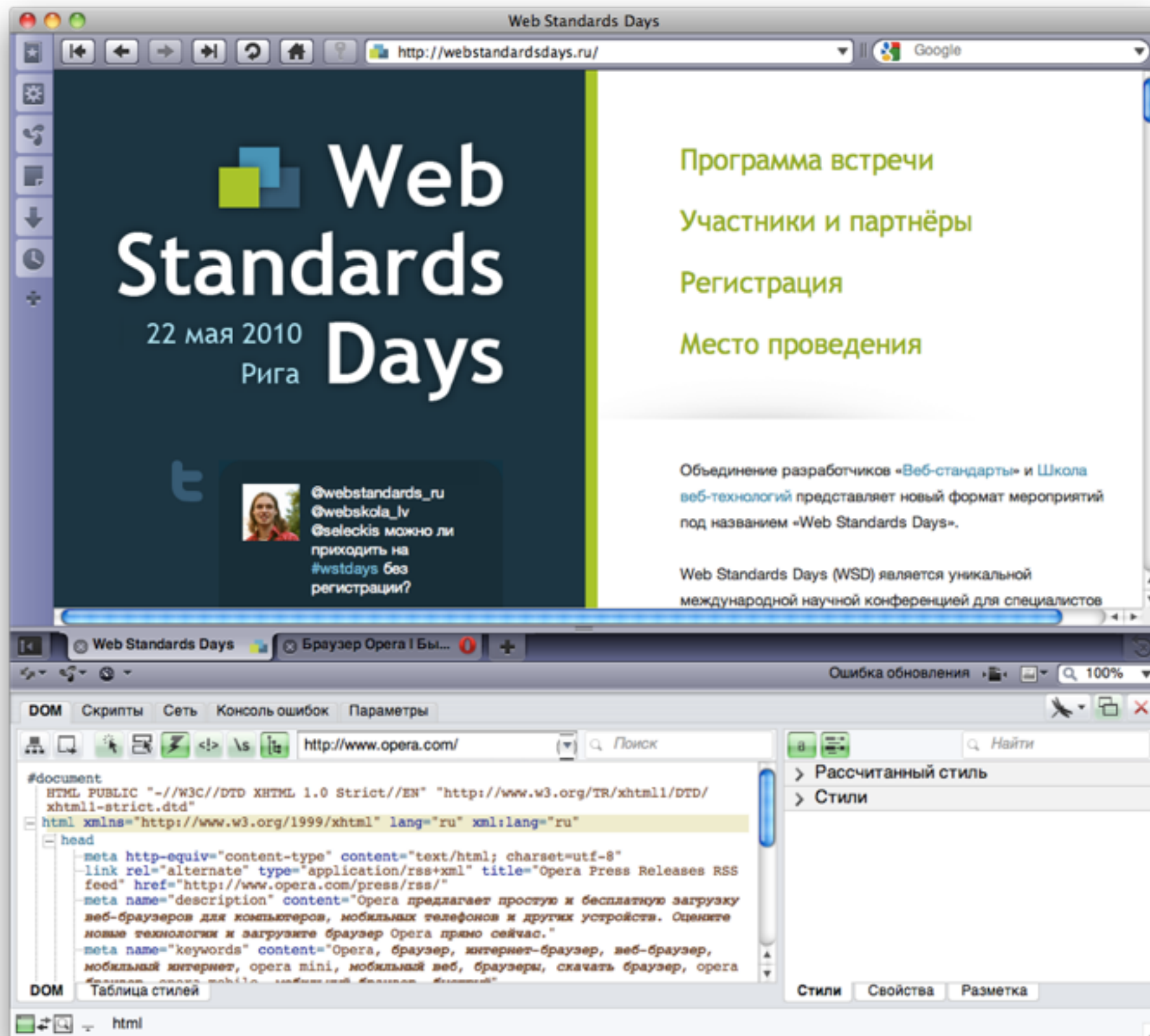
Плюсы

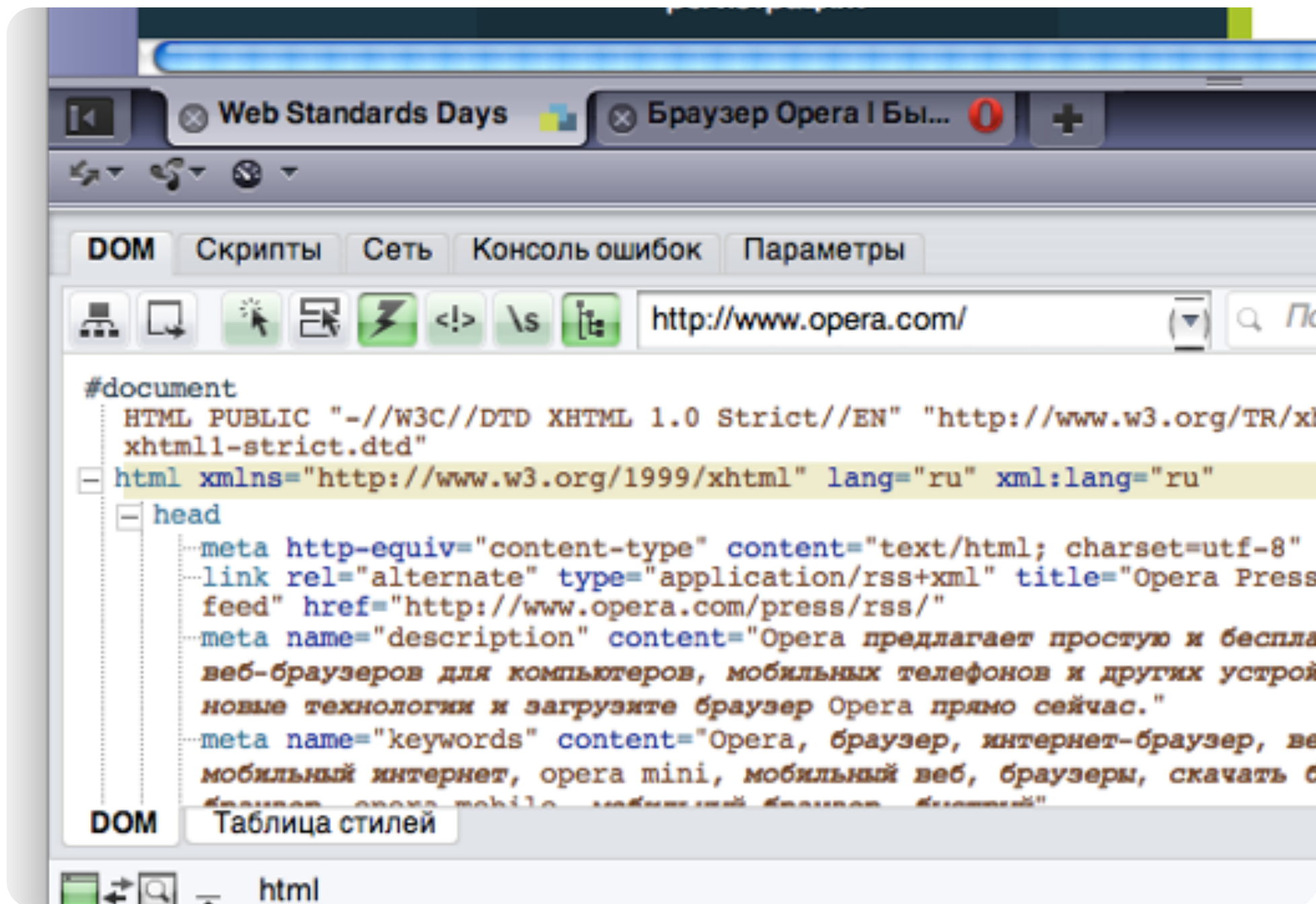


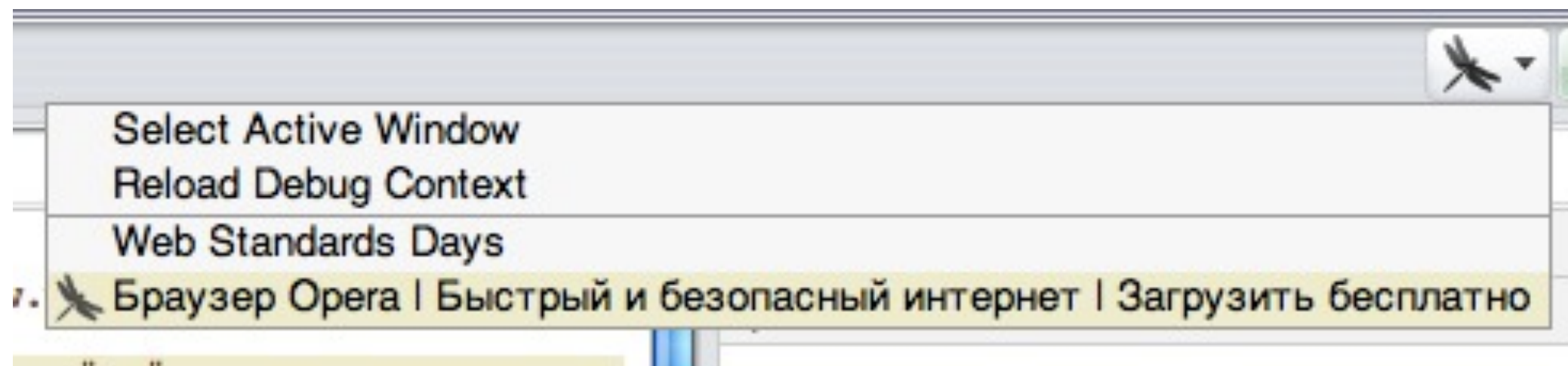


Не плюсы

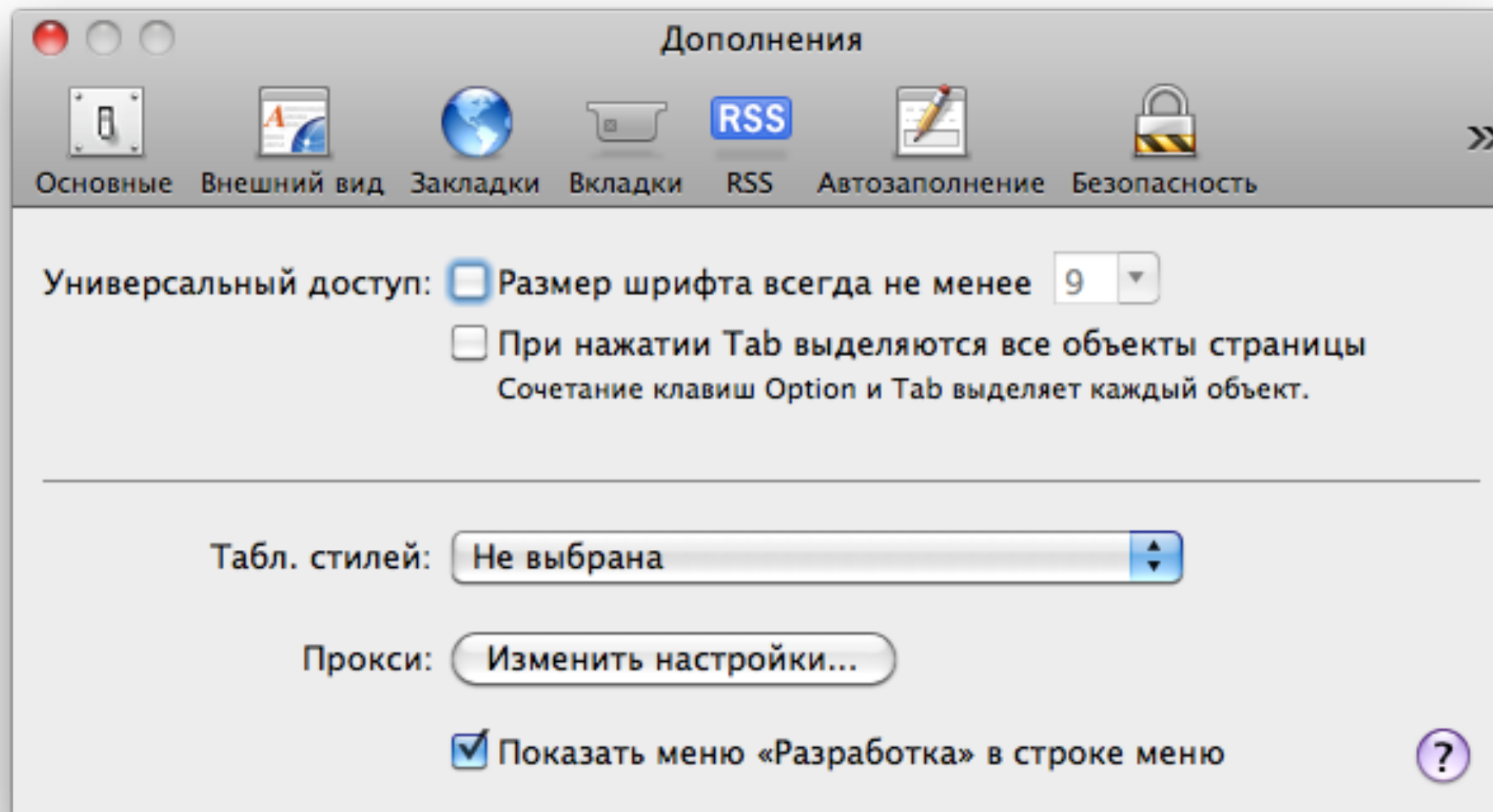




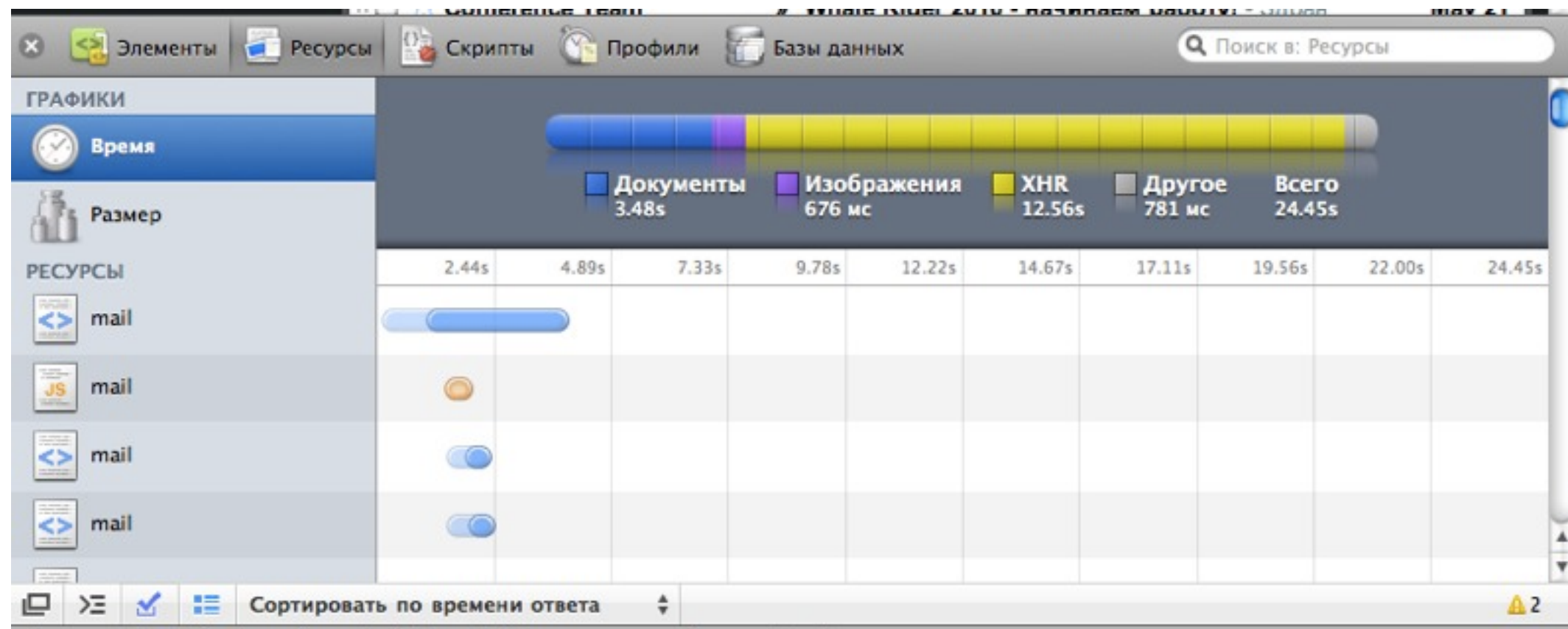


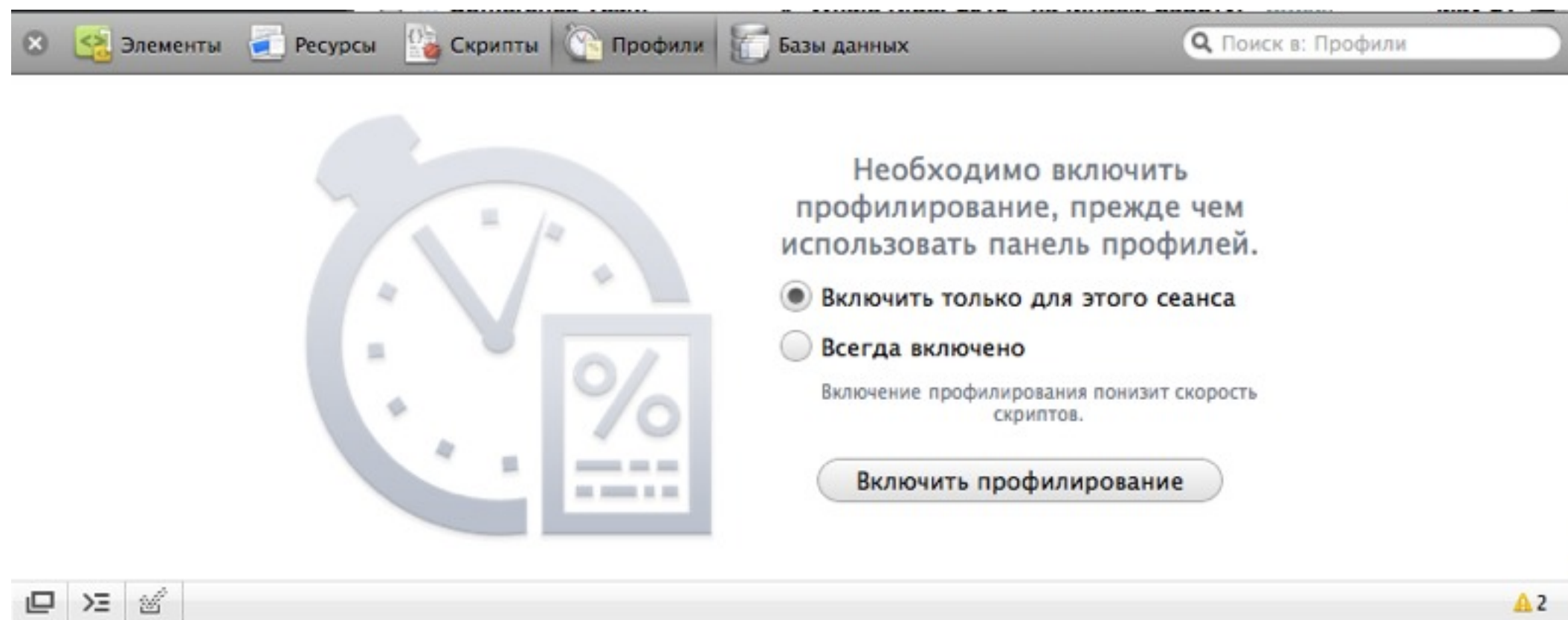






- ▶ Стили
- ▶ Размеры
- ▶ Свойства





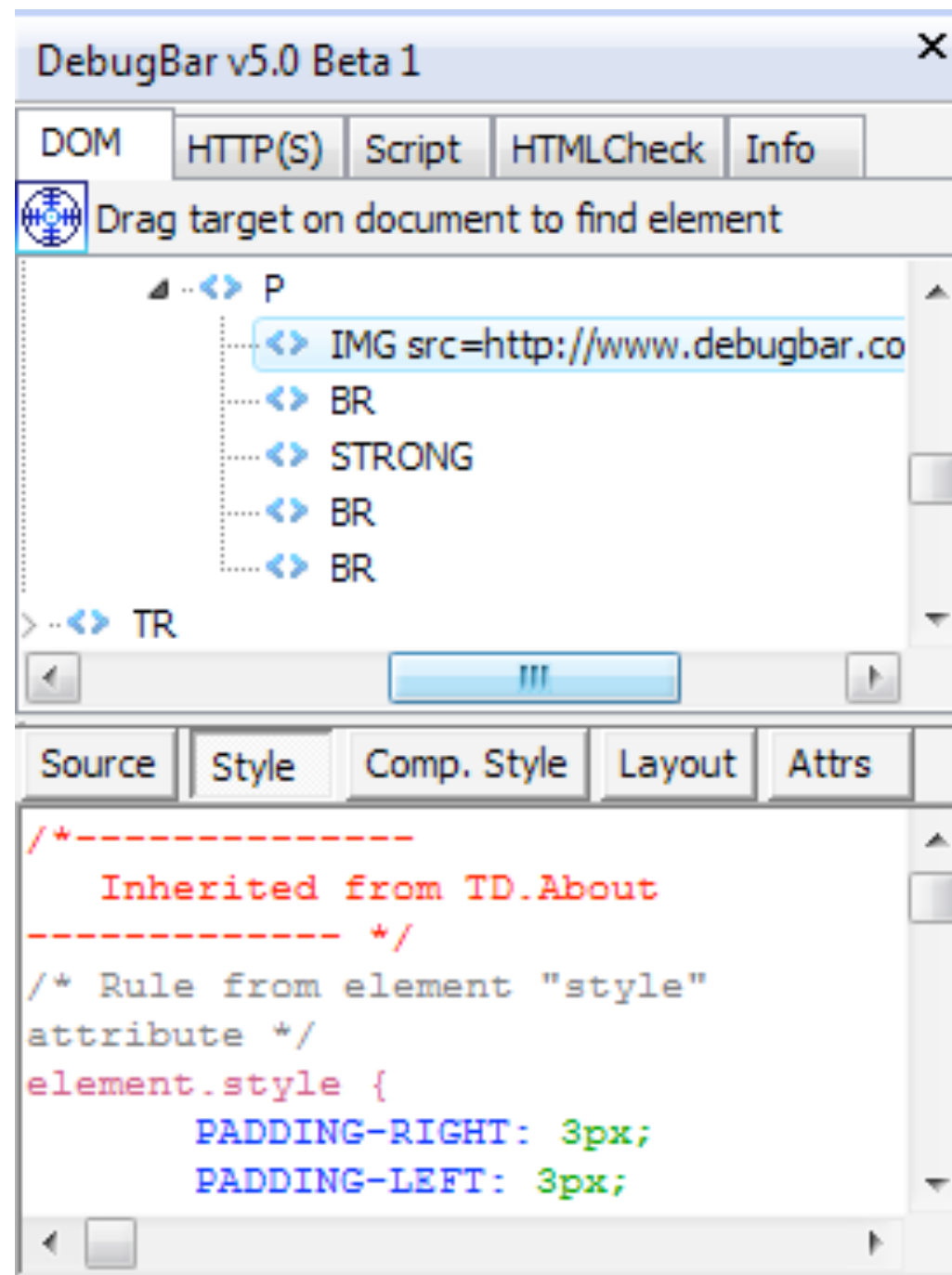


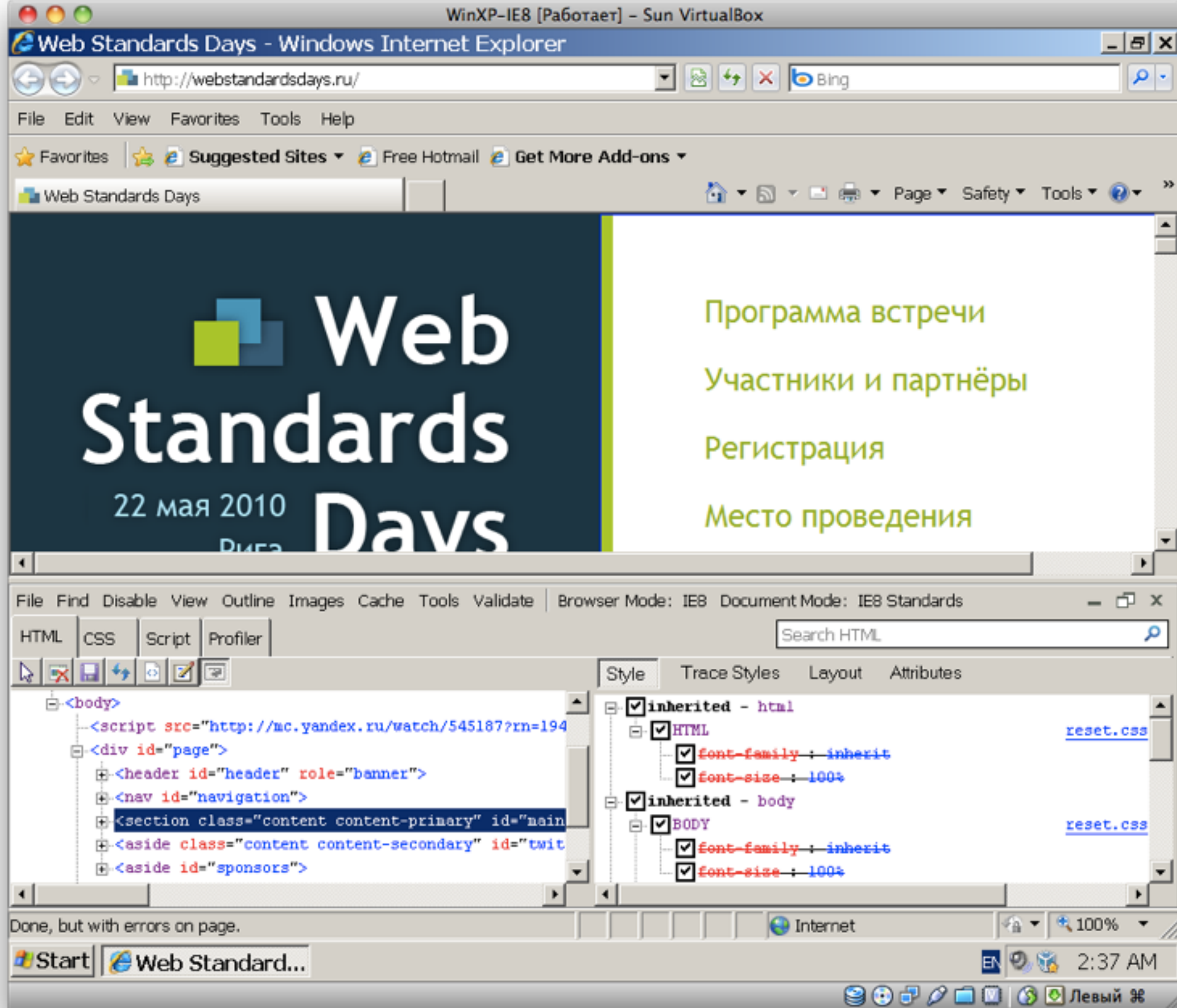
IE 8+ — встроен

IE 6-7

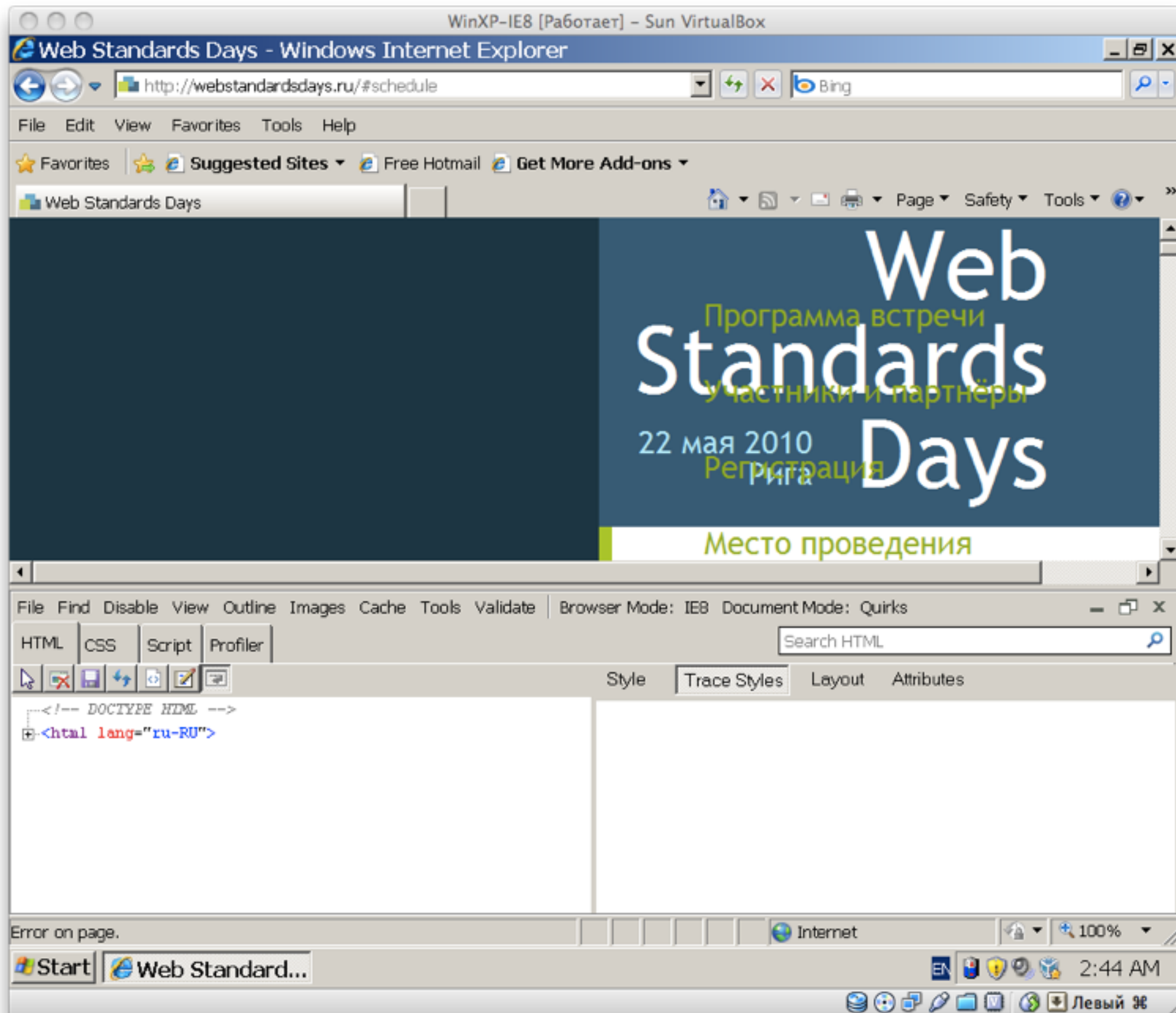
IE Developer Toolbar
microsoft.com

Debugbar
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**



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

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