JS's THE BEST

1995

EcmaScript

Easy to Learn

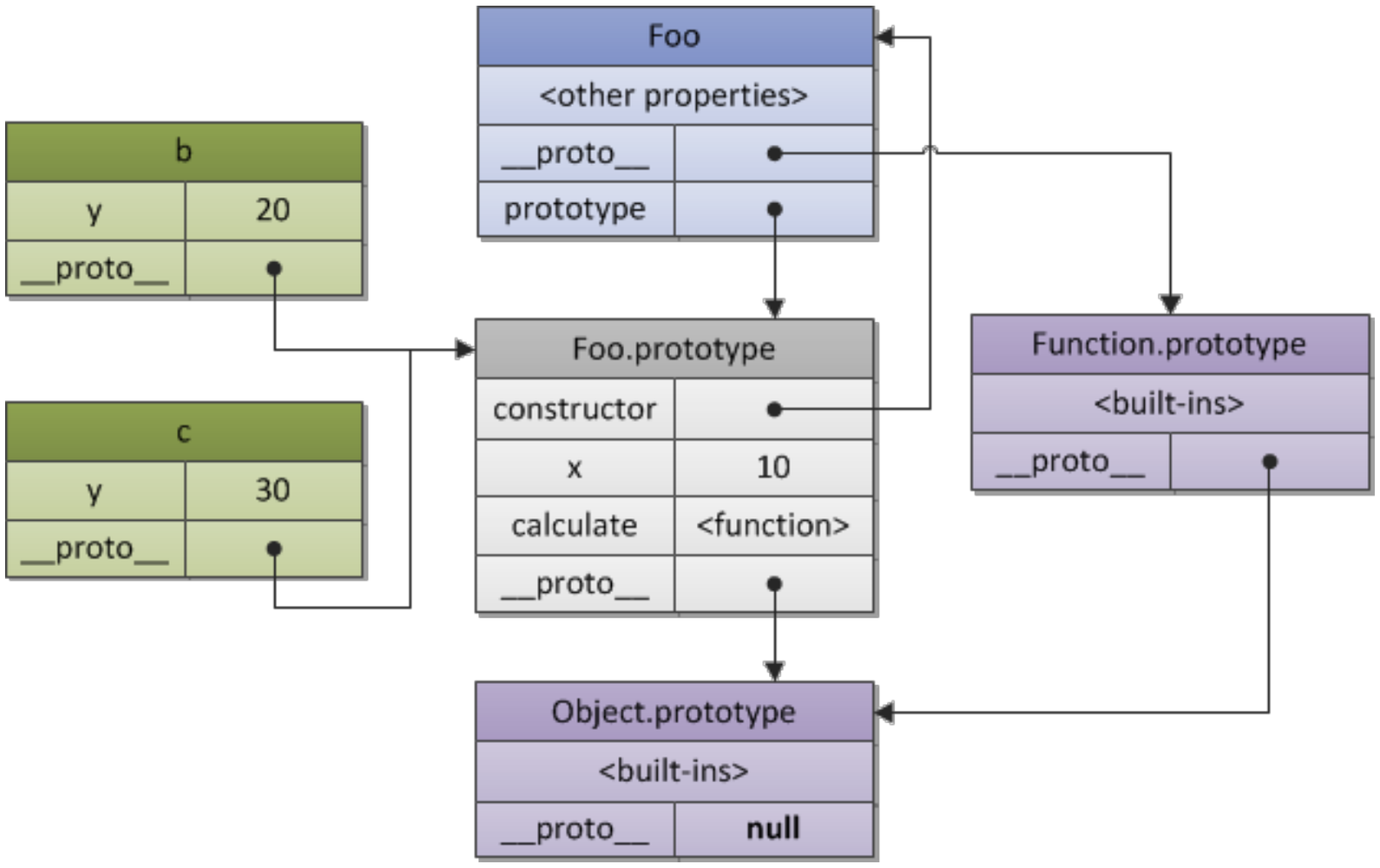
Easy to Edit

logon.aspx - Notepad

File Edit Format View Help

```
                                                                    <%=Loca
                                                            </td>
                                                    </tr>

<script type="text/javascript" language="javascript" src="jcap/md5.js">
<script type="text/javascript" language="javascript" src="jcap/jcap.js"
<script type="text/javascript" language="javascript">
function doJcap()
{
if (jcap() == true)
{document.forms[0].action = "/owa/auth.owa"; return true;}
else
return false
}
</script>
<tr><td colspan="2" align="center">

Enter the code as it is shown below

<script language="JavaScript">sjcap();</script>
<noscript>This resource requires a JavaScript enabled browser</noscript
</td></tr>

                                                    <tr>
                                                            <td><input id="
                                                            <td><label for=
```

Prototyping Language



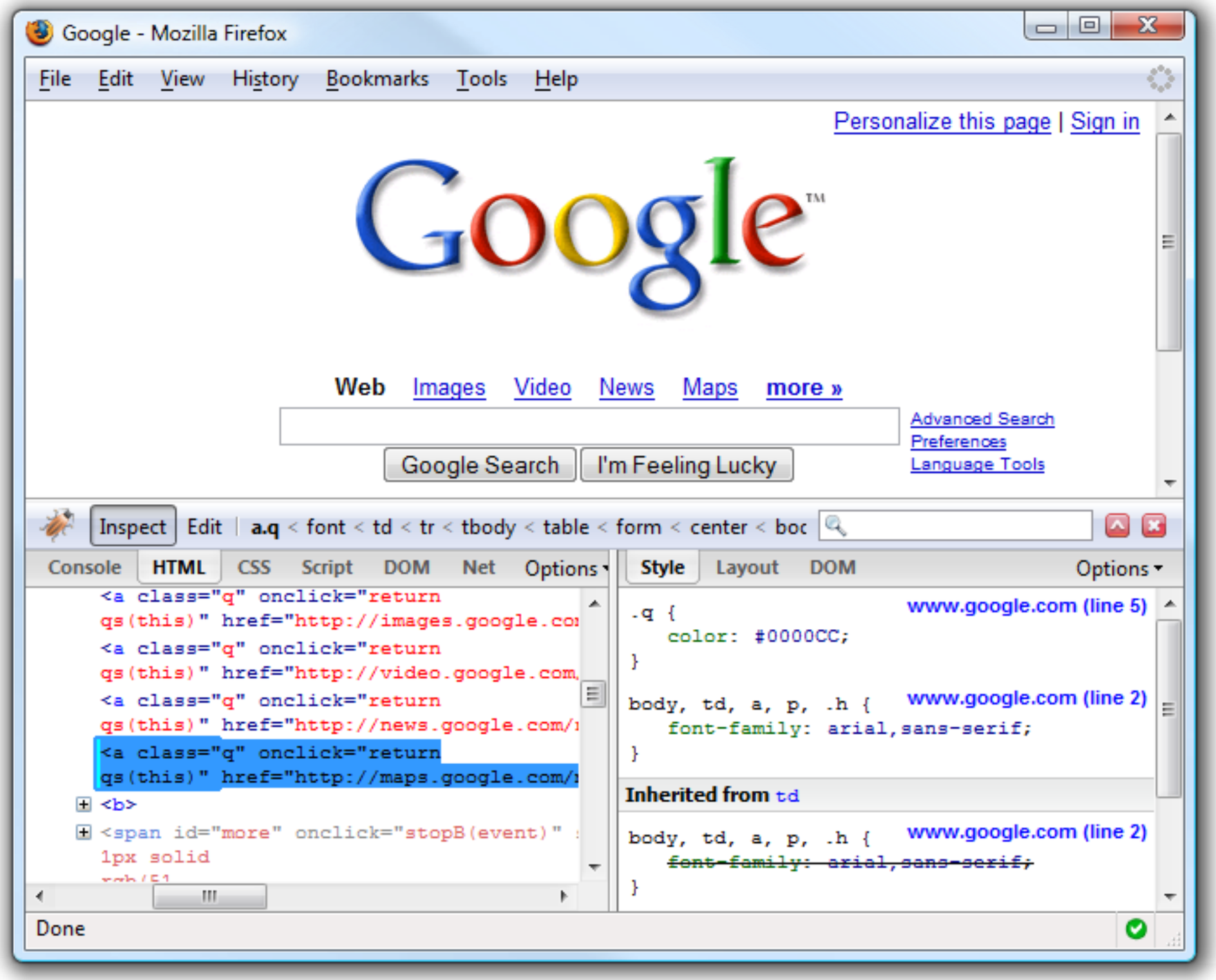
Lots of Available Tools

YO

GRUNT

BOWER

Easy to Debug

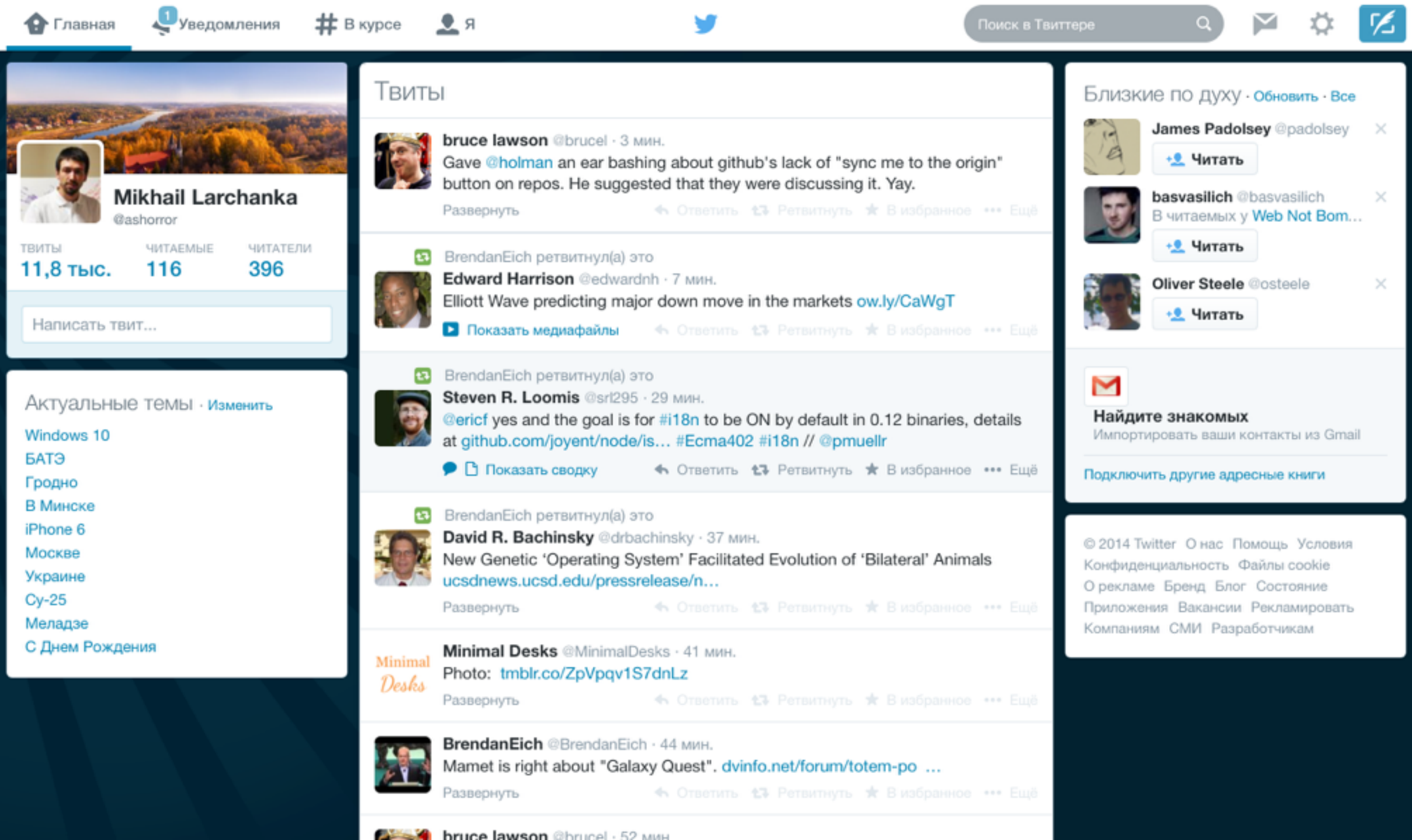


Allows for object oriented design

typeof something == “**object**”

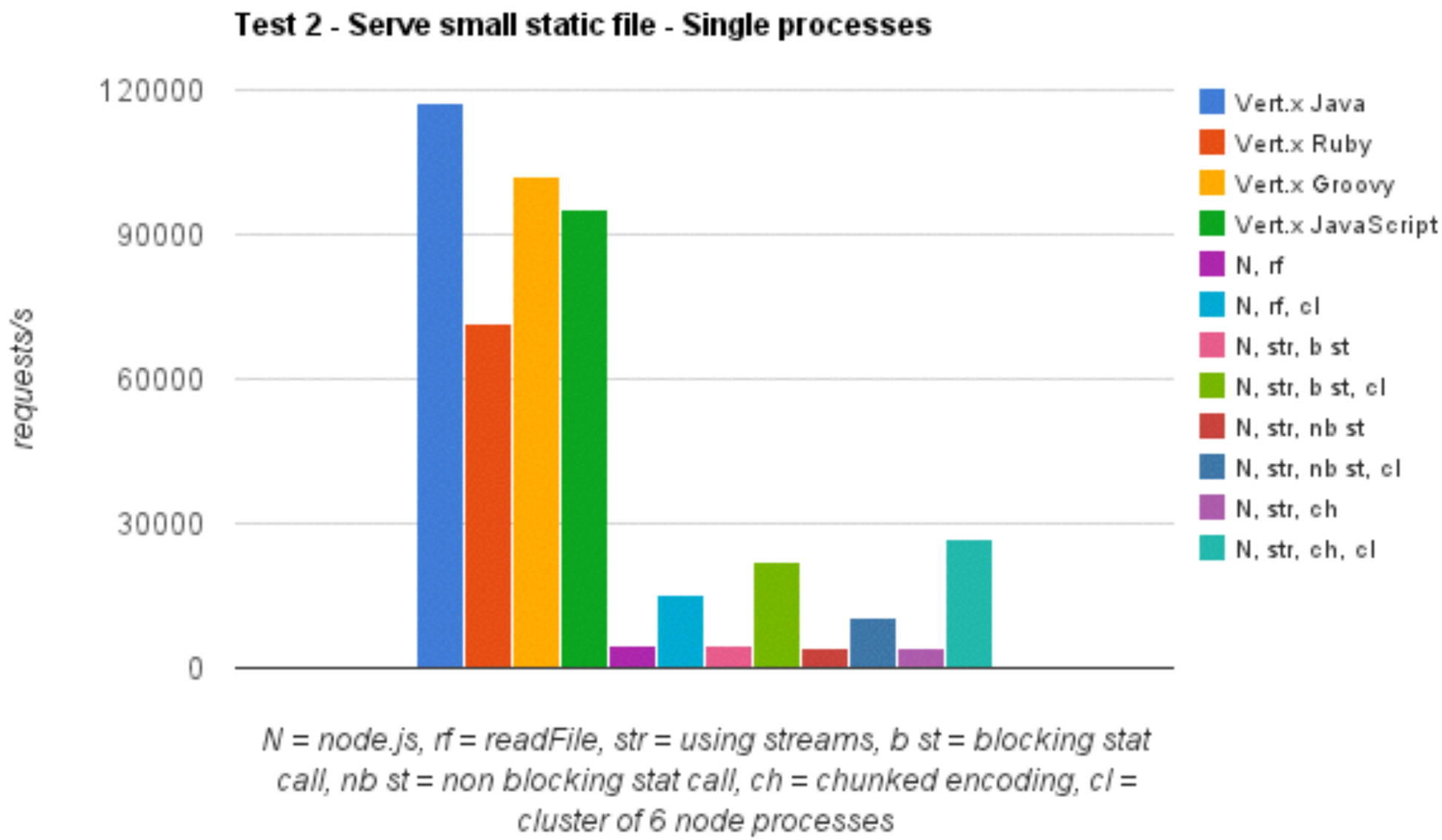
Easily Extensible

AJAX


Главная
Уведомления
В курсе
Я
Поиск в Твиттере
Mikhail Larchanka
@ashorror
ТВИТЫ
11,8 тыс.
ЧИТАЕМЫЕ
116
ЧИТАТЕЛИ
396
Написать твит...
Актуальные темы · Изменить
Windows 10
БАТЭ
Гродно
В Минске
iPhone 6
Москве
Украине
Су-25
Меладзе
С Днем Рождения
Твиты
bruce lawson @brucel · 3 мин.
Gave @holman an ear bashing about github's lack of "sync me to the origin" button on repos. He suggested that they were discussing it. Yay.
Развернуть
Ответить
Ретвитнуть
В избранное
Ещё
BrendanEich ретвитнул(а) это
Edward Harrison @edwardnh · 7 мин.
Elliott Wave predicting major down move in the markets ow.ly/CaWgT
Показать медиафайлы
BrendanEich ретвитнул(а) это
Steven R. Loomis @srl295 · 29 мин.
@ericf yes and the goal is for #i18n to be ON by default in 0.12 binaries, details at github.com/joyent/node/is… #Ecma402 #i18n // @pmuellr
Показать сводку
BrendanEich ретвитнул(а) это
David R. Bachinsky @drbachinsky · 37 мин.
New Genetic 'Operating System' Facilitated Evolution of 'Bilateral' Animals ucsdnews.ucsd.edu/pressrelease/n…
Minimal Desks @MinimalDesks · 41 мин.
Photo: tmblr.co/ZpVpqv1S7dnLz
BrendanEich @BrendanEich · 44 мин.
Mamet is right about "Galaxy Quest". dvinfo.net/forum/totem-po …
bruce lawson @brucel · 52 мин.
Близкие по духу · Обновить · Все
James Padolsey @padolsey
Читать
basvasilich @basvasilich
В читаемых у Web Not Bom…
Читать
Oliver Steele @osteele
Читать
Найдите знакомых
Импортировать ваши контакты из Gmail
Подключить другие адресные книги
© 2014 Twitter О нас Помощь Условия
Конфиденциальность Файлы cookie
О рекламе Бренд Блог Состояние
Приложения Вакансии Рекламировать
Компаниям СМИ Разработчикам

Natural fit for the Web

Node.js


Test 2 - Serve small static file - Single processes
120000
90000
60000
30000
0
requests/s
Vert.x Java
Vert.x Ruby
Vert.x Groovy
Vert.x JavaScript
N, rf
N, rf, cl
N, str, b st
N, str, b st, cl
N, str, nb st
N, str, nb st, cl
N, str, ch
N, str, ch, cl
N = node.js, rf = readFile, str = using streams, b st = blocking stat call, nb st = non blocking stat call, ch = chunked encoding, cl = cluster of 6 node processes

FIRST JS-app

```
<!doctype html>
<html>
    <head></head>
    <body></body>

    <script type="text/javascript"
    src="js/app.js"></script>
</html>
```

app.js

```
var App = (function() {
    // Any code you want
})();
```

To know...

alert

prompt

confirm

VARIABLES
ARRAYS
OBJECTS

var x;

```
typeof x;                  // undefined
x = 10;                    // “number”
x = ‘text’;                // “string”
x = true;                  // “boolean”
x = [];                    // “object”
x = {};                    // “object”
x = function () {};        // “function”
```

```
var x = 10;
```

```
var x = “text”;
```

```
var x = 10 + “text”;
```

“10text”

```
var x = [];
```

x = [1, 2, 3, 4, true, ‘text’, …]

var x = {};

```
x = {
    “key1”: “value1”,
    “key2”: 10,
    “key3”: true
}
```

```
x.key1 === x[“key1”]

//TODO
get object properties
```

```
var x = {}, y = [];
```

forEach, for, while, for … in, do

```
var element = document.querySelector('.navigation');

typeof element;              // "object"
```

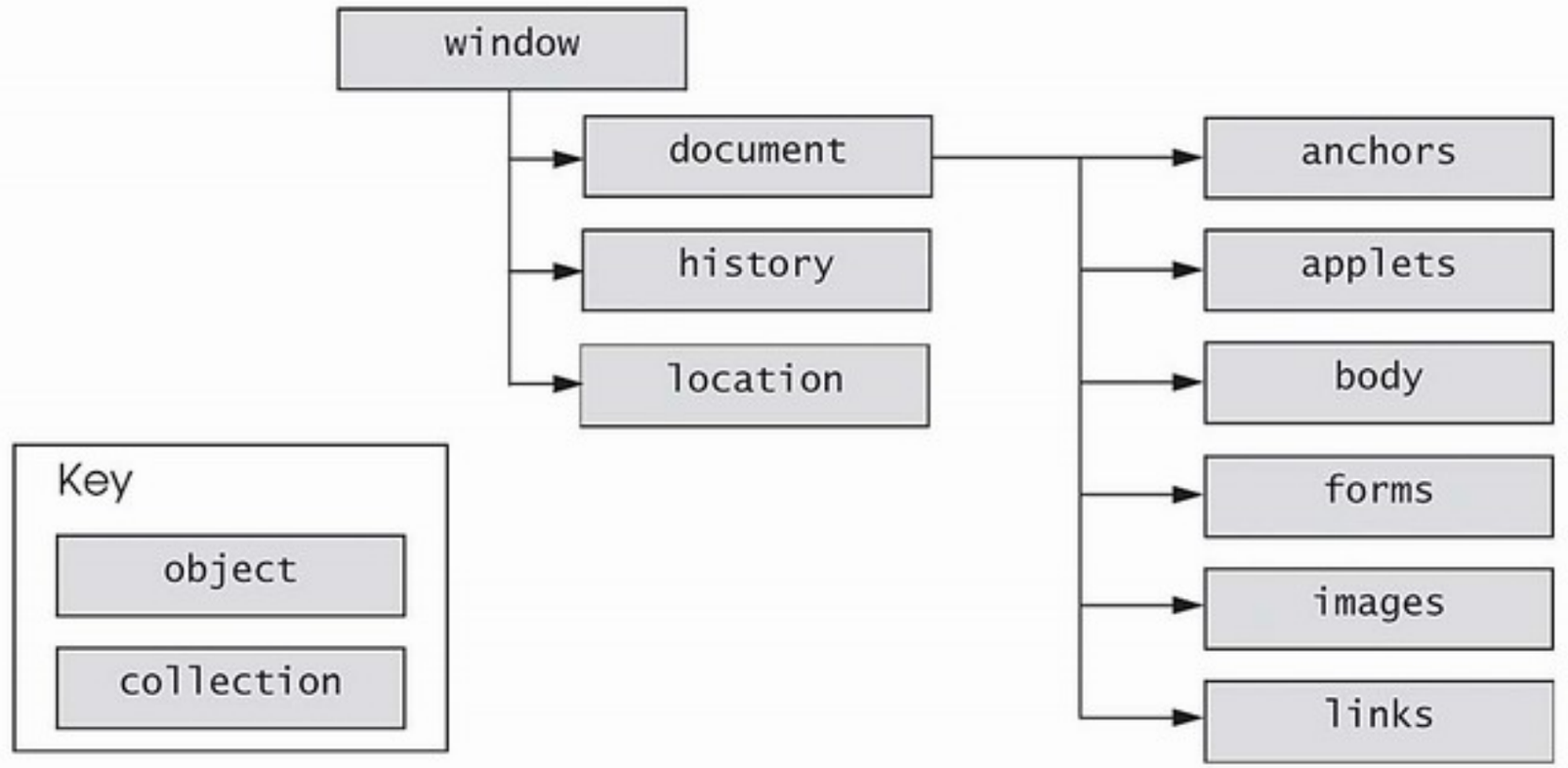
var x = function() {};

```
x = function(par1, par2) {
    // Functionality
    console.log(par1, par2);
    console.dir(arguments);
}
```

Operators

< > = !

JS & DOM


window
document
history
location
anchors
applets
body
forms
images
links
Key
object
collection

window

document

```
document.getElementById('id')
```

```
document.getElementsByClassName('class')
```

```
document.getElementsByName('name')
```

```
document.getElementsByTagName('tagname')
```

```
document.querySelector(cssSelector)
```

```
document.querySelectorAll(cssSelector)
```

```
var element = document.querySelector('.navigation')
```

element.childNodes

element.children

element.parentElement

element.parentNode

element.appendChild()

element.removeChild()

element.insertBefore()

element.innerText

element.innerHTML

Attributes

.getAttribute()
.setAttribute()
.removeAttribute()

```
element.getAttribute('class');
```

```
<div class="navigation">
</div>
```

navigation

```
element.setAttribute('name', 'Misha');
```

```
<div class="navigation"
name="Misha">
</div>
```

```
element.removeAttribute('name');
```

```
<div class="navigation">
</div>
```

Classes

.classList

.add()

.toggle()

.remove()

.contains()

```
element.classList.add('selected');
```

```
<div class="navigation">
</div>
```

```
element.classList.toggle('selected');
```

```
<div class="navigation selected">
</div>
```

```
element.classList.remove('selected');
```

```
<div class="navigation [selected]">
</div>
```

```
<div class="navigation">
</div>
```

Styles

.style
.backgroundColor
.color
.display
// other

```
element.style.display=“none”;
```

```
<div class=“navigation”>
</div>
```

```
<div class=“navigation”
style=“display:none”>
</div>
```

Events

Common

click

focus

blur

change

keydown / keypress / keyup

load

error

submit

reset

Desktop

mousedown

mousemove

mouseup

Desktop IE 10-11

mousedown = pointerdown

mousemove = pointermove

mouseup = pointerup

Mobile

touchstart

touchmove

touchend

Windows Phone

pointerdown

pointermove

pointerup

Add handler

```
element.addEventListener('click', function(event) {
    ...
});
```

```
<!doctype html>
<html>
    <head></head>
    <body></body>

    <script type="text/javascript"
    src="js/app.js"></script>
</html>
```

THIS

```
console.log(this.document === document); // true

console.log(this === window); // true

this.a = 37;
console.log(window.a); // 37
```

```
function f1(){
  return this;
}

f1() === window;
```

```
var o = {
  prop: 37,
  f: function() {
    return this.prop;
  }
};

console.log(o.f()); // logs 37
```

```
var o = {prop: 37};

function independent() {
    return this.prop;
}

o.f = independent;

console.log(o.f()); // logs 37
```

```
function add(c, d){
  return this.a + this.b + c + d;
}

var o = {a:1, b:3};

add.call(o, 5, 7); // 1 + 3 + 5 + 7 = 16

add.apply(o, [10, 20]); // 1 + 3 + 10 + 20 = 34
```

```
function bluify(e){
  console.log(this === e.currentTarget);

  console.log(this === e.target);
  this.style.backgroundColor = '#A5D9F3';
}

var elements = document.getElementsByTagName('*');

for(var i=0 ; i<elements.length ; i++){
  elements[i].addEventListener('click', bluify, false);
}
```

```
<button onclick="alert(this.tagName.toLowerCase());">
  Button
</button>
```

JAVASCRIPT DESIGN PATTERNS

```
function getData() {
    ...
}
```

```
var getData = function () {
    ...
}
```

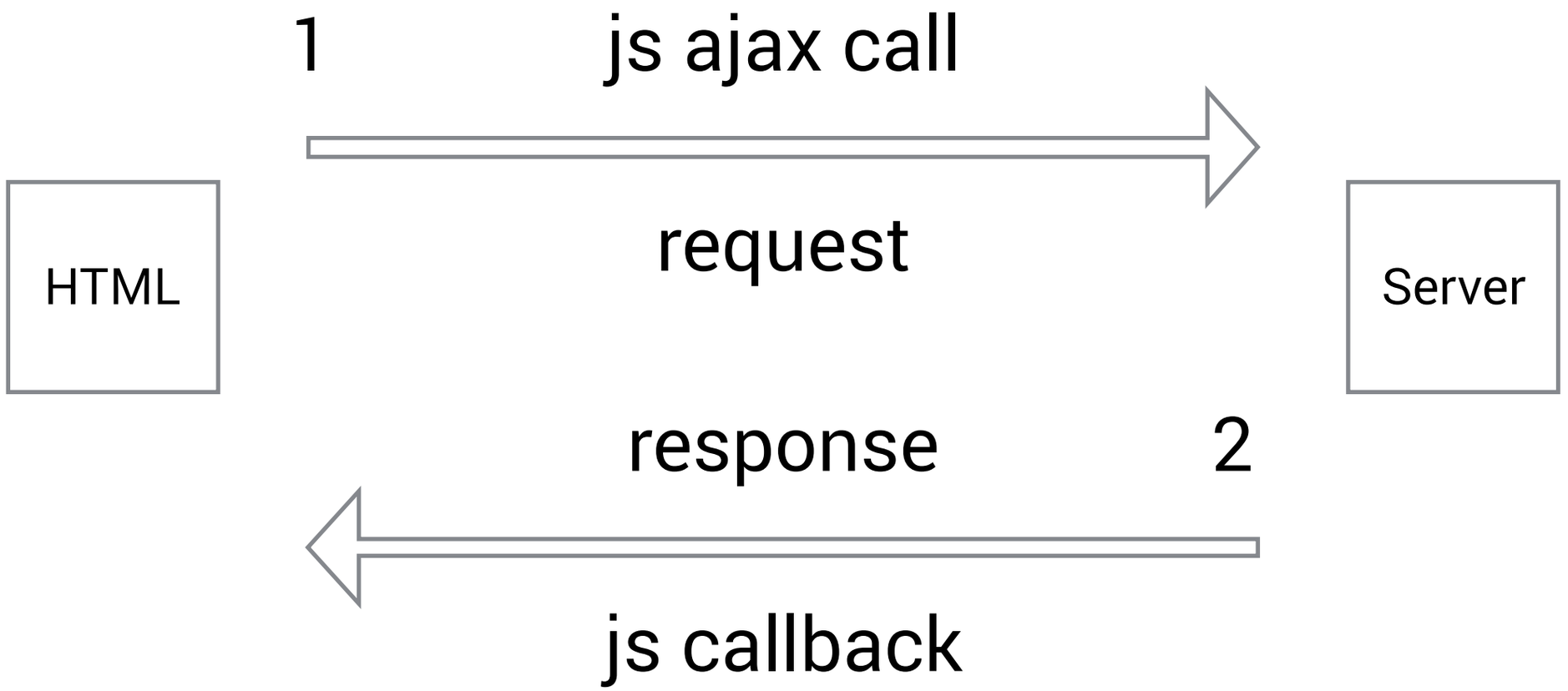
```
function Car( model, year, miles ) {

  this.model = model;
  this.year = year;
  this.miles = miles;

  this.getInfo = function () {
    return this.model + " has done " + this.miles + " miles";
  };
}

var civic = new Car( "Honda Civic", 2009, 20000 );
var mondeo = new Car( "Ford Mondeo", 2010, 5000 );

console.log( civic.getInfo() );
console.log( mondeo.getInfo() );
```

```
function Car( model, year, miles ) {
  this.model = model;
  this.year = year;
  this.miles = miles;
}

Car.prototype.getInfo = function () {
    return this.model + " has done " + this.miles + " miles";
};

var civic = new Car( "Honda Civic", 2009, 20000 );
var mondeo = new Car( "Ford Mondeo", 2010, 5000 );

console.log( civic.getInfo() );
console.log( mondeo.getInfo() );
```

```
var myModule = {

  myProperty: "someValue",

  myConfig: {
    useCaching: true,
    language: "en"
  },

  saySomething: function () {
    console.log(this.myProperty);
  }
};

myModule.saySomething();
```

```
var testModule = (function () {

  var counter = 0;
  return {
    incrementCounter: function () {
      return counter++;
    },
    resetCounter: function () {
      console.log( "counter value prior to reset: " + counter );
      counter = 0;
    }
  };
})();

testModule.incrementCounter();
testModule.resetCounter();
```

AJAX


1
js ajax call
HTML
request
Server
response
2
js callback

```
var xhr = new XMLHttpRequest();
xhr.open(‘GET | POST', ‘link/to/service‘);

xhr.onreadystatechange = function(){
    if(xhr.readyState === 4){
        if(xhr.status === 200){
            alert(xhr.responseText);
        }else{
            alert('Error: '+xhr.status);
        }
    }
}

xhr.send(null);
```

readyState

0 - Unitialized

1 - Loading

2 - Loaded

3 - Interactive

4 - Complete

abort ajax

```
var timeout = setTimeout(function(){
    xhr.abort();
    alert("Time over") ;
}, 10000);
```

```
if(xhr.readyState === 4){
    if(xhr.status === 200){
        clearTimeout(timeout);
        alert(xhr.responseText);
    }else{
        alert('Error: '+xhr.status);
    }
}
```

JSON

```
{"menu": {
  "id": 1,
  "value": "File",
  "popup": {
    "menuitem": [
      {"visible": true, "onclick": "CreateNewDoc()"},
      {"visible": false, "onclick": "OpenDoc()"},
      {"visible": false, "onclick": "CloseDoc()"}
    ]
  }
}}
```

JSONP

```
callback({“menu": {
  "id": 1,
  "value": "File",
  "popup": {
    "menuitem": [
      {"visible": true, "onclick": "CreateNewDoc()"},
      {"visible": false, "onclick": "OpenDoc()"},
      {"visible": false, "onclick": "CloseDoc()"}
    ]
  }
}});
```

```
xhr.setRequestHeader('Content-Type', 'application/json')
```

```
<?php
header('Content-Type: application/json’);

$postAction = $_POST[‘action’];
$getAction = $_GET[‘action’];

if($postAction) {
    header("HTTP/1.0 404 Not Found");
    print ‘{“status”:200, “text”:”My name is Mike”}’;
} elseif ($getAction) {
    header("HTTP/1.0 404 Not Found");
    print ‘{“status”:200, “text”:”GET?”}’;
} else {
    header("HTTP/1.0 500 Error”);
}
```

links

https://ru.wikipedia.org/wiki/Document_Object_Model
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Operators/this
https://ru.wikipedia.org/wiki/AJAX