

<http://bit.ly/Nnfx8o>

# Создание HTML на клиенте

Вопиловский Константин  
«Ашманов и партнеры»

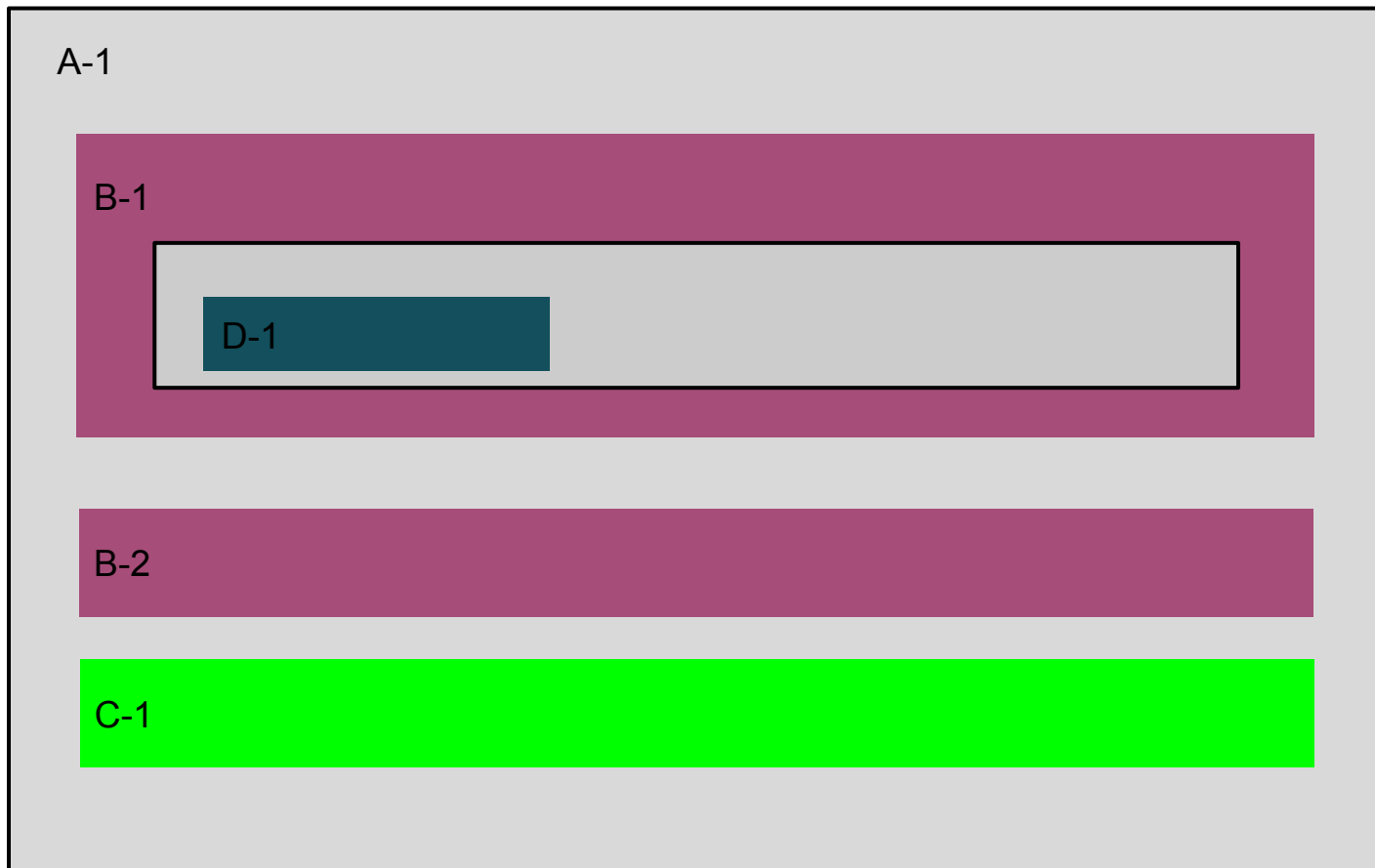


<http://www.devconf.ru>

## DOMHTML

- строим по Text/HTML (innerHTML)
- строим DOM методами (createElement)

# Строим DOM небольшими блоками



```
<div>  
  <div>abc</div>  
  <div><div>ABCDEF</div></div>  
  <div>abc</div>  
</div>
```

```
var html = '<div><div>abc</div><div><div>ABCDEF</div></div><div>abc</div></div>';
```

```
function testA() {  
    var N = document.createElement('div')  
    NN.innerHTML = html;  
    n = NN.firstChild  
};
```

|       | FireFox | Opera | Chrome | Safari | iPad   | IE9    | IE8   |
|-------|---------|-------|--------|--------|--------|--------|-------|
| testA | 81mc    | 83mc  | 123mc  | 81mc   | 1002mc | 1002mc | 862mc |

```
function testB() {  
  var d = document, n = d.createElement('div');  
  n.appendChild(d.createElement('div')).appendChild(d.createTextNode('ABCDEF'));  
  
  n.appendChild(d.createElement('div'))  
    .appendChild(d.createElement('div'))  
    .appendChild(d.createTextNode('ABCDEF'));  
  
  n.appendChild(d.createElement('div')).appendChild(d.createTextNode('ABCDEF'));  
  
  return n;  
};
```

|       | FireFox | Opera | Chrome | Safari | iPad   | IE9    | IE8    |
|-------|---------|-------|--------|--------|--------|--------|--------|
| testA | 81mc    | 83mc  | 123mc  | 81mc   | 1002mc | 1002mc | 862mc  |
| testB | 137mc   | 106mc | 83mc   | 40mc   | 808mc  | 439mc  | 1220mc |

```
function master(N) {
  var l = arguments.length, n = d.createElement(N), i, x;

  for (i = 1; i < l; i += 1) {
    x = arguments[i];
    if (typeof x === 'string') {
      n.appendChild(d.createTextNode(x));
    } else {
      if (x) n.appendChild(x);
    }
  };

  return n;
};
```

```
function testC() {  
    var _ = master;  
  
    var n = _('div'  
        , _('div', 'ABCDEF')  
        , _('div'  
            , _('div', 'ABCDEF')  
        )  
        , _('div', 'ABCDEF')  
    );  
  
    return n;  
};
```

|       | FireFox | Opera | Chrome | Safari | iPad   | IE9    | IE8    |
|-------|---------|-------|--------|--------|--------|--------|--------|
| testA | 81mc    | 83mc  | 123mc  | 81mc   | 1002mc | 1002mc | 862mc  |
| testB | 137mc   | 106mc | 83mc   | 40mc   | 808mc  | 439mc  | 1220mc |
| testC | 132mc   | 122mc | 86mc   | 44mc   | 832mc  | 1305mc | 2063mc |



80 тыс. элементов

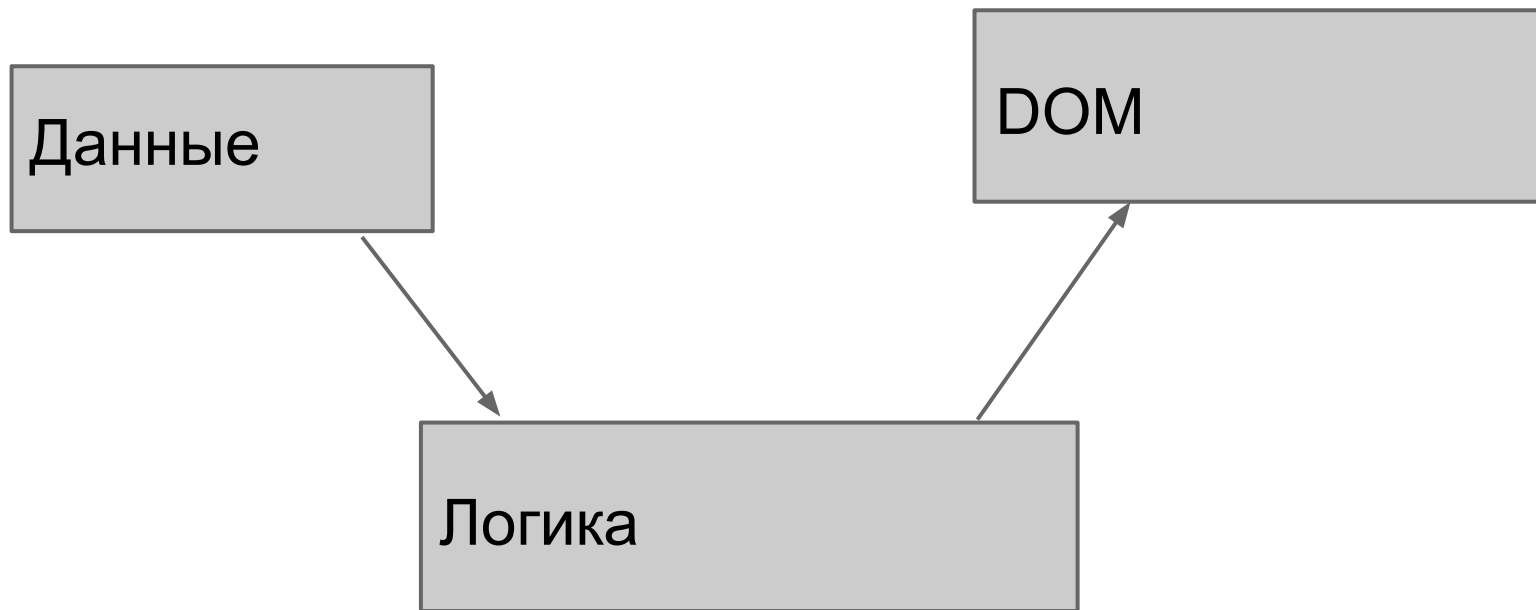
~40 страниц

|       | FireFox | Opera | Chrome | Safari | iPad   | IE9    | IE8    |
|-------|---------|-------|--------|--------|--------|--------|--------|
| testA | 81mc    | 83mc  | 123mc  | 81mc   | 1002mc | 1002mc | 862mc  |
| testB | 137mc   | 106mc | 83mc   | 40mc   | 808mc  | 439mc  | 1220mc |
| testC | 132mc   | 122mc | 86mc   | 44mc   | 832mc  | 1305mc | 2063mc |

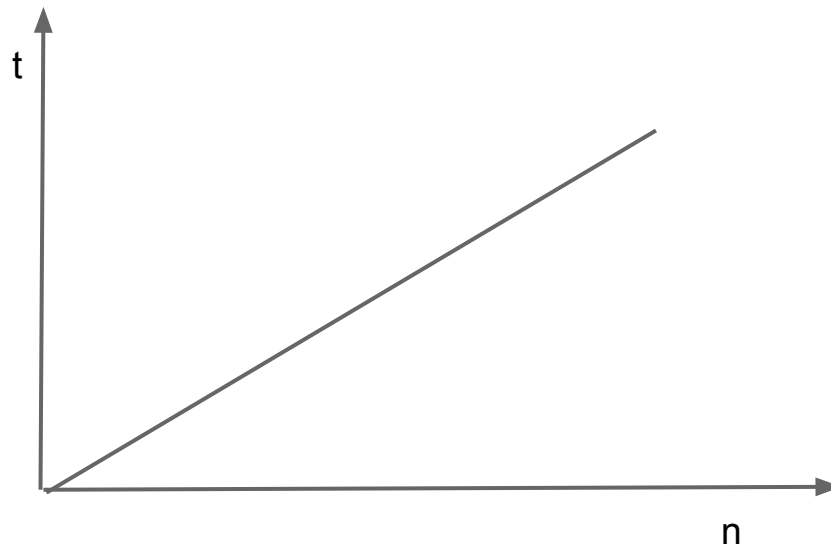
```
function testA() {  
    var d = document, x = d.createElement('div'), j = 1000, n;  
    while(j--) x = x.appendChild(d.createElement('div'));  
};  
function testB() {  
    var d = document, x = d.createElement('div'), j = 1000, n;  
    while(j--) {  
        (n = d.createElement('div')).appendChild(x);  
        x = n;  
    };  
};  
function testC() {  
    document.createElement('div').innerHTML = '<div><div><div><div>...</div></div>';  
};
```

|       | FireFox | Opera | Chrome | Safari | iPad   | IE9    | IE8    |
|-------|---------|-------|--------|--------|--------|--------|--------|
| testA | 52mc    | 85mc  | 10mc   | 47mc   | 445mc  | 125mc  | 160mc  |
| testB | 183mc   | 55mc  | 114mc  | 94mc   | 338mc  | 7148mc | 6500mc |
| testC | 15mc    | 6mc   | 268mc  | 207mc  | 1939mc | 28mc   | 130mc  |

# node.cloneNode(true)



# Чем меньше DOM тем лучше



# Мастер

```
var _ = master;
```

```
var n = _(элемент [, параметры] [, вложение, вложение, ...]  
)
```

\_(элемент [, параметры] [, вложение, вложение, ...] )

- строка(nodeName) названия элемента
- какойто элемент node (node.nodeType > 0)
- группа, js-объект (x.nodeType < 0)
- function , конструктор группы(компонента)

## Группа (компонент)

```
var X = {  
    nodeType: -1,  
    node: HTML_Element, // может и не быть  
    box: HTML_Element   // может и не быть  
};
```



\_(элемент [, параметры] [, вложение, вложение, ...] )

```
{  
  css: 'b-link',  
  title: "Не нажимать",  
  href: 'javascript: ....'  
}
```

\_(элемент [, параметры] [, вложение, вложение, ...] )

- HTML\_Element
- Текст или число
- JS-объект группы
- Массив

# Шаблоны

```
var tpl = {};  
....  
tpl.popup = function(_, p) {  
    this.node = _('div.b-popup', {css: p.css}  
        , _('div.b-popup-head'  
            , this.head_text = _.text(p.name||"  
        )  
        , this.box = _('div.b-popup-box'  
    );  
};  
.....  
var popup = new tpl.popup(master, {css: 'm-xxxxx-eeee', name: "Заголовок подсказки"});  
var popup = master(tpl.popup, {css: 'm-xxxxx-eeee', name: "Заголовок подсказки"});
```

```
var tmpl = {}, elems = {};  
tmpl.popup = function(_, p) {.....};  
.....  
  
elems.popup = function(master, p) {  
    this.document = master.document;  
  
    this.nodes = new tmpl.popup(master, false);  
    // this.node = this.nodes.node;  
    this.box = this.nodes.box;  
};  
  
elems.popup.prototype = {  
    nodeType: -1,  
    show: function() {  
        this.document.body.appendChild(this.nodes.node);  
    },  
    hide: function() {  
        this.document.body.removeChild(this.nodes.node);  
    }  
};
```

```
elems.popup = function(_, p) {.....};
```

```
.....
```

```
var popup = new elems.popup(master, false);  
popup.show();
```

..... или так

```
tmpl.xxxxxxx = function(_, p) {  
  this.popup = _(elems.popup, {css:'m-xxxxxxx-popup', name: "Bla Bla ..."}  
    , this.qqq = _('p'  
      , "....."  
      , .....  
    )  
    , .....  
);  
  
  this.node = _('div', ..... );  
};
```

## Прочее

- `master.text("sssssss")`
- `master.map([...], function(){...})`
- `master.html("<p>....</p><p>....")`

# nội địa hóa (localization)

```

tmpl.popup_help = function(_, p) {
    var ns = this;

    ns.node = _('div.b-popup_help d-popup_help--p-left b-popup_help--hide'
        , {
            css: p.css
        }

        , ns.boxwrap = _('div.b-popup_help-boxwrap'
            , ns.box = _('div.b-popup_help-box')
            , ns.exit = _('div.b-popup_help-exit', {title: "Закреть"})
        )

        , _('div.b-popup_help-arrow')
        , _('div.b-popup_help_arrow b-popup_help_arrow--bg')
    );
};

```

# Вопросы

[https://github.com/vflash/master\\_domhtml](https://github.com/vflash/master_domhtml)

<http://zz7a.com>

[vflash.ru](http://vflash.ru)



