


```
var hello = {
  greeting: 'Hello',
  name: 'world!'
```

```
var hello = {
  greeting: 'Hello',
  name: 'world!'
};

$('#template').render(hello);
```

build passing

Features

- Collection rendering No need for hand-written loops

- Valid HTML templates Write templates as a part of the HTML, in plain HTML
- View logic in JavaScript No crippled micro-template language, just plain JavaScript functions

Transparency is compatible with IE9+, Chrome, Firefox, iOS, Android and other mobile browsers. Support for IE8 requires jQuery.



Community

- IRC: freenode/#transparency.js
- Google Groups: transparencyjs@googlegroups.com

Fiddle

Try Transparency with interactive examples.

Install

```
curl https://raw.github.com/leonidas/transparency/master/dist/transparency.min.js

# Or with Bower
npm install -g bower
bower install transparency
```

Require with script tags

```
<script src="js/jquery-1.7.1.min.js"></script>
<script src="js/transparency.min.js"></script>
```

or with AMD

```
require(['jquery', 'transparency'], function($, Transparency) {
    // Without jQuery
    Transparency.render(document.getElementById('template'), data);

    // With jQuery
    jQuery.fn.render = Transparency.jQueryPlugin;
    $('#template').render(data);
});
```

Node.js

```
npm install transparency
```

For server-side use, see examples/hello-server.

API documentation

Here are short and detailed examples how to use Transparency. For more elaborate examples, see User manual and FAQ. Feel free to add your own examples in the wiki, too!

Implementation details are explained in the annotated source code.

Binding values

Transparency binds values in-place. That means, you don't need to write separate template sections on your page. Instead, compose just a normal, static html page and start binding some dynamic values on it!

By default, Transparency binds JavaScript objects to a DOM element by id, class, name attribute and data-bind attribute. Default behavior can be changed by providing a custom matcher function, as explained in section Configuration. Values are escaped before rendering.

Template:

```
<div id="container">
  <div id="hello"></div>
  <div class="goodbye"></div>
  <input type="text" name="greeting" />
  <button class="hi-button" data-bind="hi-label"></button>
  </div>
```

Javascript:

Result:

```
<div class="container">
    <div id="hello">Hello</div>
    <div class="goodbye">lt;i&gt;Goodbye!&lt;/i&gt;</div>
    <input type="text" name="greeting" value="Howdy!" />
```

```
<button class="hi-button" data-bind="hi-label">Terve!</button>
</div>
```

Rendering a list of models

Template:

```
<lass="activity">
```

Javascript:

```
var activities = [
    {activity: 'Jogging'},
    {activity: 'Gym'},
    {activity: 'Sky Diving'},
];

$('#activities').render(activities);

// or
Transparency.render(document.getElementById('activities'), activities);
```

Result:

```
  Jogging
  Gym
  Sky Diving
```

Rendering a list of plain values

With plain values, Transparency can't guess how you would like to bind the data to DOM, so a bit of help is needed. Directives are just for that.

Access to the plain values within the directives is provided through <code>this.value</code>. There's a whole lot more to say about the directives, but that's all we need for now. For the details, see section Directives.

Template:

```
<div>
     <div class="comments">
          <label>Comments:</label><span class="comment"></span>
          </div>
</div>
```

Javascript:

```
var comments, directives;

comments = ["That rules", "Great post!"];

// See section 'Directives' for the details
directives = {
  comment: {
    text: function() {
      return this.value;
    }
  }
};

$('.comments').render(comments, directives);
```

Result:

```
<div>
     <div class="comments">
          <label>Comments</label><span class="comment">That rules</span>
          <label>Comments</label><span class="comment">Great post!</span>
          </div>
</div>
```

Nested lists

Template:

Javascript:

```
var post = {
  title:    'Hello World',
  post:    'Hi there it is me',
  comments: [ {
     name: 'John',
     text: 'That rules'
    }, {
     name: 'Arnold',
     text: 'Great post!'
    }
  }
};

$('.container').render(post);
```

Result:

Nested objects

Template:

```
<div class="person">
  <div class="firstname"></div>
  <div class="lastname"></div>
```

Javascript:

```
var person = {
  firstname: 'John',
  lastname: 'Wayne',
  address: {
    street: '4th Street',
    city: 'San Francisco',
    zip: '94199'
  }
};
```

Result:

```
<div class="container">
  <div class="firstname">John</div>
  <div class="lastname">Wayne</div>
  <div class="address">
        <div class="street">4th Street</div>
        <div class="zip">94199<span class="city">San Francisco</span></div>
        </div>
    </div>
```

Directives

Directives are actions Transparency performs while rendering the templates. They can be used for setting element text or html content and attribute values, e.g., class, src or href.

Directives are plain javascript functions defined in a two-dimensional object literal, i.e.,

```
directives[element][attribute] = function(params) {...}
```

where <code>element</code> is value of <code>id</code>, <code>class</code>, <code>name</code> attribute or <code>data-bind</code> attribute of the target element. Similarly, <code>attribute</code> is the name of the target attribute.

When a directive function is executed, this is bound to the current model object. In addition, the directive function receives current element as params.element, current index as params.index and current value as params.value.

The return value of a directive function is assigned to the matching element attribute. The return value should be string, number or date.

Template:

```
<div class="person">
  <span class="name">My name is </span>
  <a class="email"></a>
</div>
```

Javascript:

```
var person, directives;

person = {
  firstname: 'Jasmine',
  lastname: 'Taylor',
  email: 'jasmine.tailor@example.com'
};
```

```
directives = {
  name: {
    text: function(params) {
      return params.value + this.firstname + " " + this.lastname;
    }
  },
  email: {
    href: function(params) {
      return "mailto:" + this.email;
    }
  }
};

$('.person').render(person, directives);
```

Result:

```
<div class="person">
  <span class="name">My name is Jasmine Taylor</span>
  <a class="email" href="mailto:jasmine.tailor@example.com">jasmine.tailor@example.com</a>
</div>
```

Nested directives

Template:

Javascript:

```
person = {
 firstname: 'Jasmine',
 lastname: 'Taylor',
             'jasmine.taylor@example.com',
 email:
 friends: [ {
     firstname: 'John',
     lastname: 'Mayer',
     email:
                'john.mayer@example.com'
     firstname: 'Damien',
     lastname: 'Rice',
             'damien.rice@example.com'
 ]
};
nameDecorator = function() { "<b>" + this.firstname + " " + this.lastname + "</b>"; };
directives = {
 name: { html: nameDecorator },
 friends: {
   name: { html: nameDecorator }
 }
};
```

```
$('.person').render(person, directives);
```

Result:

Configuration

Transparency can be configured to use custom matcher for binding the values to DOM elements.

For example, one might want to bind only with <code>data-bind</code> attribute, but not with <code>class</code> or <code>id</code> attributes. Custom matcher function should take <code>key</code> and <code>element</code> as parameters and return <code>true</code> if the corresponding value should be bind to the given DOM element.

Debugging templates, data and Transparency

http://leonidas.github.com/transparency/ is great place to fiddle around with your data and templates.

To enable debug mode, call <code>.render</code> with a <code>[debug: true]</code> config and open the javascript console.

```
$('container').render(data, {}, {debug: true});
```

Development environment

Install node.js 0.8.x and npm. Then, in the project folder

```
$ npm install grunt -g  # command-line build tool to enable TDD, auto-complation and minification
$ npm install  # Install the development dependencies
$ grunt  # Compile, run tests, minify and start watching for modifications
```

The annotated source code should give a decent introduction.

Contributing

All the following are appreciated, in an asceding order of preference

- 1. A feature request or a bug report
- 2. Pull request with a failing unit test
- 3. Pull request with unit tests and corresponding implementation

In case the contribution is changing Transparency API, please create a ticket first in order to discuss and agree on design.

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