### **JsRender Fundamentals**

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# **Getting Started with JsRender**

John Papa

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- What is JsRender
- JsFiddle
- Why use JsRender
- Getting Started in Visual Studio
- On Your Mark, Get Set, Go!
- Key Resources

### JsRender, in a Nutshell

```
Instead of
$(my.vm.music).each(function () {
                                                      this ...
    var product = this;
    $("#musicContainer").append(
        "<div>" + product.model.brand + " "
            + product.model.name + "</div>");
});
                                                    ... do this
<div>
  {{:model.brand}} {{:model.name}}
</div>
```

#### **JsRender**

- Client side JavaScript templating library
- Created by Boris Moore
  - http://www.borismoore.com
- JsRender beta candidate (March 2012)
- Currently being used by Windows Azure and Hotmail teams
  - Source: Boris Moore

#### What is JsRender?

**Code-less Syntax** 

**High performance** 

**No DOM Dependency** 

No jQuery Dependency

No JavaScript expressions in markup

~20 times faster than jquery.tmpl!

Client-side JavaScript Templating

Run with or without jQuery

### **JsRender Roadmap**

#### jQuery Templates

http://jpapa.me/jsrenderroadmap

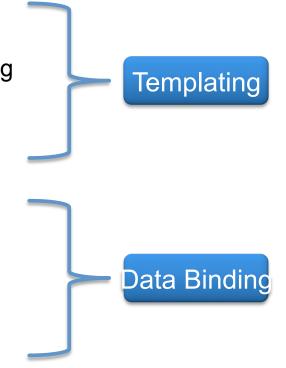
- Currently at beta
- No plans for further changes

#### JsRender

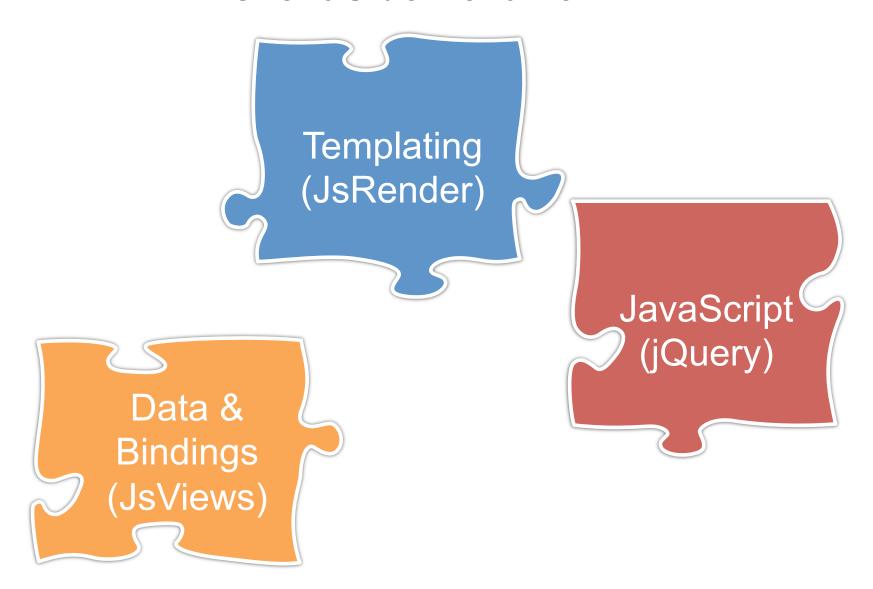
- March 2012 Beta Candidate
- Pure string based template rendering
- No DOM nor jQuery dependency
- □ Fast!

#### JsViews

- Beta coming soon
- Data driven views
- □ Built on JsRender



#### **Client Side Behavior**



## **DEMO**

JsRender Benchmarks



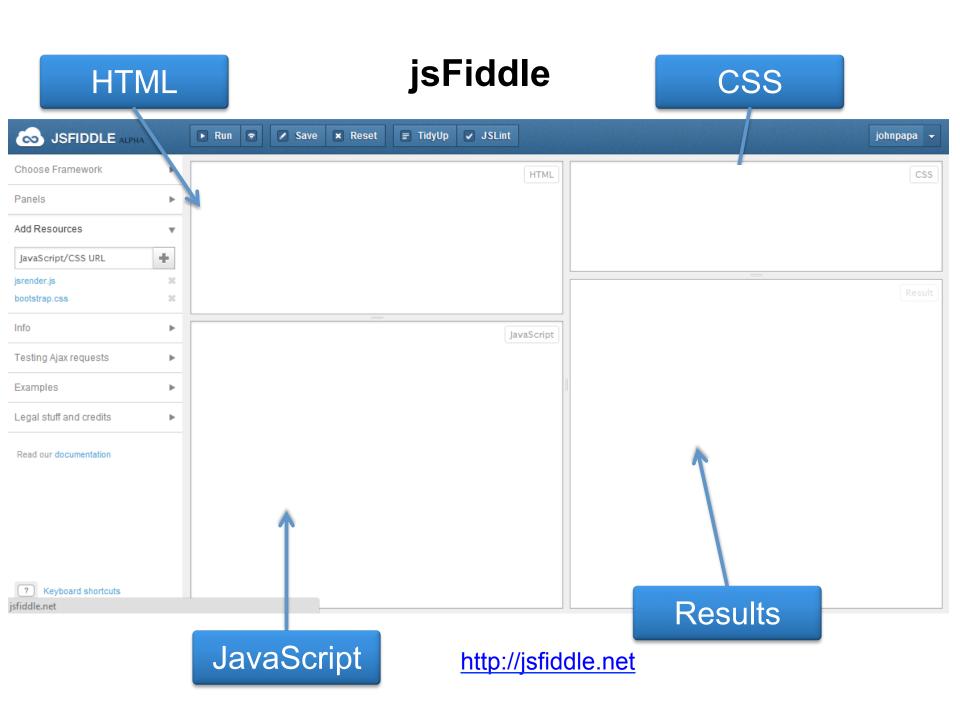
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### Inspiration

- Great ideas come quickly
- Need a place to jot it down
- Try it out quickly

## jsFiddle: Chalkboard for Ideas

- Created by Piotr Zalewa and hosted at <a href="http://jsFiddle.net">http://jsFiddle.net</a>
- Free code sharing tool
- Within a browser you can:
  - Edit
  - Fork
  - Execute
  - Debug
- Ideal for quick chalkboard ideas
- Share
  - Embed your fiddles in your own web pages



## **DEMO**

jsFiddle



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### Why Use JsRender / Templating

- Building HTML and adding it to the DOM via script can be:
  - Mixture of concerns
  - String concatenation
  - Hard to read/maintain

### **Life Without Templates**

```
Appending
$(my.vm.music).each(function () {
                                                    Elements
    var product = this;
    $("#musicContainer").append(
        "<div>"
            + product.model.brand + " "
            + product.model.name + "</div>"
            + "<div> $ " + product.pricing.salePrice
            + "</div>"
            + "<img src='../images/"
            + product.gallery.mainPhoto
            + "' style='height:80px;'/>");
});
```

### **Life With Templates**

#### HTML

```
<div> {{:model.brand}} {{:model.name}} </div>
<div>$ {{:pricing.salePrice}}</div>
<img src="../images/{{:gallery.mainPhoto}}" />
```

#### **JavaScript**

```
$("#output").html($("#myTmpl").render(products));
```

## **DEMO**

With and Without Templates



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### Coding with JsRender in Visual Studio

- File | New Project
  - Empty Web Application
- Reference jQuery (or not)
- Reference JsRender
  - Get source from GitHub
  - https://github.com/BorisMoore/jsrender
- Intellisense in \*.js files

```
/// <reference path= "/scripts/jsrender.js" />
```

#### Valuable Visual Studio Extensions

- NuGet
  - manage 3<sup>rd</sup> party libraries and references
- Web Essentials
  - Code collapsing, add vendor specific CSS properties, much rhore
- Web Standards Update
  - HTML intellisense and validation
- WoVS Default Browser Switcher
  - Quickly change the default browser from Visual Studio
- JSLint
  - JavaScript code analysis
- CSSCop
  - Catches common CSS issues
- Resharper 6
  - JavaScript refactoring tools

Free

Free Trial Only

## **DEMO**

Getting Started in Visual Studio



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### 3 Steps to JsRender

```
Template
<script id="movieTemplate" type="text/x-jsrender">
    <div>{{:name}}</div>
    <div>Year Released: {{:releaseYear}}</div>
</script>
                                                   Container
<div id="myContainer"></div> <</pre>
$("#myContainer").html(
                                                    Render
  $("#movieTemplate").render(movies)
```

);

## **DEMO**

JsRender in 3 Steps



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#### Resources

- JsRender source code
- Boris Moore
- StackOverflow
- jsFiddle

Bootstrap

- https://github.com/BorisMoore/jsrender
- http://www.borismoore.com
- http://jpapa.me/jsrenderSO
- http://www.jsfiddle.net

http://twitter.github.com/bootstrap

### **Summary**

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