



# Embedded JavaScript - EJS

- client-side templating
- V8 Engine
- UTF-8 encoding
- combines data and a template to produce HTML

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- <% %> or [% %] tags
- <%= %> tag
- HTML content is all file contents outside of EJS delimiters
- Faster development, compilation, rendering and execution

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# Why EJS?

- Build HTML strings with JavaScript
- AJAX web development with web services
- Application skinning

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# **EJS Support**

- NodeJS
  - npm install ejs
- Browser
  - https://github.com/mde/ejs/releases/latest







### **EJS Tags**

• <b>&lt;</b> %	'Scriptlet' tag, for control-flow, no output
• <b>&lt;</b> %=	Outputs the value into the template (HTML escaped)
• <b>&lt;</b> %-	Outputs the unescaped value into the template
• <b>&lt;</b> %#	Comment tag, no execution, no output
• <b>&lt;</b> %%	Outputs a literal '<%'
• %>	Plain ending tag
• -%>	Trim-mode ('newline slurp') tag, trims following newline

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- cache compiled functions, requires filename
- filename used by cache to key caches, and for includes
- context function execution
- compileDebug when false, no debug instrumentation is compiled
- client returns standalone compiled function
- delimiter character to use with angle brackets for open/close
- **debug** output generated function body
- <u>with</u> Whether or not to use with() {} constructs. If false then the locals will be stored in the locals object.

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### Include directive

- relative to the template with the include call
- requires 'filename' option
- use the delimiter (<%#) tag with your included by directive name and parameters

```
<%#include "srv-res/layout.js" %>
<%#include "/common-srv-res/vocab-1.0/popupvocab.ejs" %>
```

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# Data + Template = HTML Result

- combines data and a template to produce HTML
- JavaScript executed between <% %>
- HTML outside EJS tags

#### **Data**

### **Template**

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### **EJS Caching**

```
<html>
       <head>
         <title>EJS caching template</title>
          <script type='text/javascript' src='../javascripts/ejs/ejs.js'></script>
           <style type='text/css'>
            .template {border: dashed 1px green;}
           </style>
       </head>
       <body>
         <h1>EJS caching</h1>
         Here we demonstrate EJS caching its templates.
         If you check firebug, you can see there is only 1 request for the template.
         <div id='content1' class='template'></div>
         <div id='content2' class='template'></div>
         <a href='caching2.html'>See EJS NOT Caching</a>
         <script type='text/javascript'>
          EJS.config({cache: false});
          new EJS({url: 'templates/content.ejs'}).update('content1', {});
          new EJS({url: 'templates/content.ejs'}).update('content2', {});
         </script>
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```

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# EJS Partial - 1

</hd>
</html>
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</html>



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### EJS Partial - 2

#### container.ejs

```
<h2>This is from the containing template</h2>
<div class='template'>
       <%= this.partial({url: 'templates/partial.ejs'}) %>
</div>
```

#### partial.ejs

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<h3>This is from the partial</h3> This partial was called like: <code>&lt;%= this.partial({url: 'templates/partial.ejs'}) %&gt;</code>

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