

JsRender Fundamentals: Advanced Concepts and Tips

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hardcore developer training

Outline

- **Custom Tags**
- **Converters**
- **Helper Functions in a Template Context**
- **Allow Code**
- **Helper Functions**

Custom Tags

Display
rating

value⁴

```
<div>{{:rating /}}</div>
```

Render
star

★★★★☆

```
<div>{{createStars rating /}}</div>
```

Creating a Custom Tag

Tag name

Value

Additional Properties

`<div>{{createStars rating max=5/}}</div>`

```
$.views.tags({
  createStars: function (rating) {
    for (var i = 1; i <= this.props.max; i++) {
      ratingArray.push(i <= rating
        ? 'rating fullStar'
        : 'rating emptyStar');
    }
    $.templates('ratingTpl',
      '<span class="{[:#data]}"></span>');
    return $.render.ratingTpl(ratingArray);
  }
});
```

Render content
from within the tag

DEMO

Custom Tags



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Converters

Change a
value



```

```

```
$.views.converters({  
  ensureUrl: function (value) {  
    return (value ? value : '/images/icon-nocover.png');  
  }  
});
```

DEMO

Converters



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Helper Functions for a Template

Context of
a template

```
$.templates('movieTpl', {  
  markup: '#movieTemplateMedium',  
  helpers: {  
    formatCurrency: function (value) {  
      return '$' + value.toFixed(2);  
    }  
  }  
});
```

Custom
code

```
<div>{{: ~formatCurrency(pricing.salePrice) }}</div>
```

Access via
tilda ~

Custom Tag Using a Helper

helper

```
<ul>
  {{sort people reverse=true sortFunction=~sortFunction }}
    <li>{{:firstName}} {{:lastName}}</li>
  {{/sort}}
</ul>
```

parameters

```
$.views.tags({
  sort: function (array) {
    var ret = '', tag = this,
        temp = array.sort(tag.props.sortFunction);
    if (tag.props.reverse) {
      for (var i = temp.length - 1; i >= 0; i--) {
        ret += tag.renderContent(temp[i]);
      }
    } else {ret += tag.renderContent(temp);}
    return ret;
  }
});
```

DEMO

Helper Functions for a Template



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Allowing Code

- Allows JavaScript inside a template
- Limited access
- Last resort

```
{{for languages}}  
  {{:#data}}{{*  
  if ( view.index === view.parent.data.length - 2 ) {  
    }} and {{*  
    } else if ( view.index < view.parent.data.length - 2 ) {  
    }}, {{* } }}  
{{/for}}
```

DEMO

Allowing Code



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Helper Functions

Accessible to
current page

```
{{for languages}}  
  {{:#data}}{{~listSeparator()}}  
{{/for}}
```

```
$.views.helpers({  
  listSeparator, function () {  
    var view = this, text = '';  
    if (view.index === view.parent.data.length - 2) {  
      text = ' and';  
    } else if (view.index < view.parent.data.length - 2) {  
      text = ',';  
    }  
    return text;  
  }  
});
```

Custom
code

DEMO

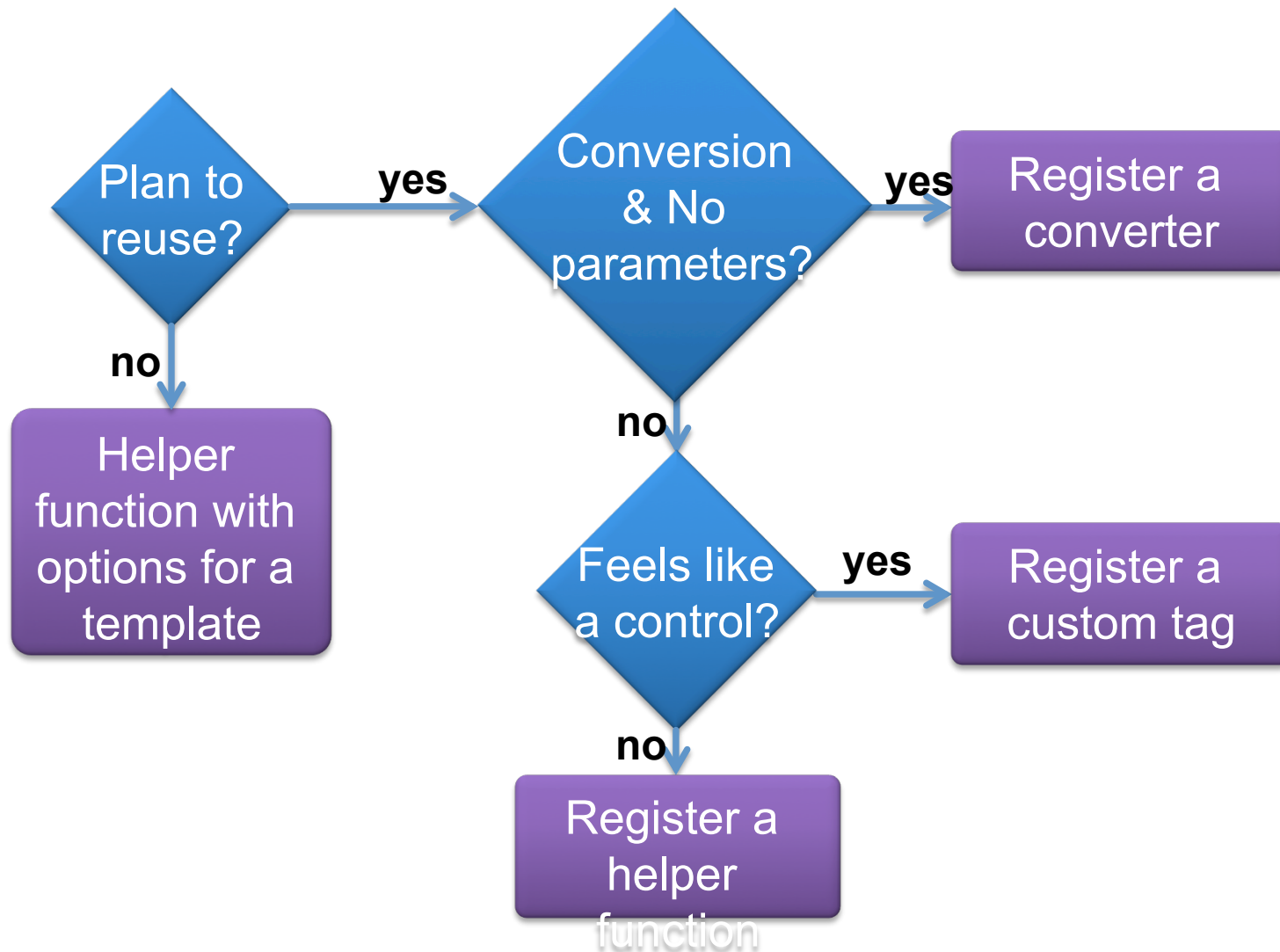
Helper Functions



Recap

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Guidelines for Converters, Tags, and Helpers



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