# Introduction to

# Reactlet Treeview

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A simple treeview

Built using ReactJS

Interface design

Links

A simple treeview

- ▼ □ website
  - ▼ ☐ images
    - logo.png
    - background.png
    - index.html
    - about.html
    - product.html

A simple treeview

- ▼ □ website
  - - 🗹 🛂 logo.png
    - 🗹 🛂 background.png

    - □ 🖹 about.html
    - □ product.html

React Classes:

Treeview

TreeviewNode

images

TreeviewCell



TreeviewTextBox

images

# Structure

Treeview = TreeviewNode (+)

TreeviewNode = TreeviewCell(+) & TreeviewTextBox

#### **Rectlet Treeview**

</div>

```
▼ □ website
        images
       div.treeview-node-container 1140px × 20px
             background.png
           index.html
           about.html

    product.html

  Elements Network Sources Timeline Profiles Resources Audits Console
▼ <div class="body-container container">
   ::before
 ▶ <div class="row">...</div>
 ▼ <div class="row">
     ::before
   ▼ <div class="col-md-12">
     ▼<div id="treeview1">
       ▼ <div class="treeview-container" data-reactid=".0">
         ▼ <div data-reactid=".0.0">
          ▶ <div class="treeview-node-container" data-id="1e98dbb4a7c25dcd8a3d2e0403c02929" data-reactid=".0.0.$treenode-le98dbb4a7c25dcd8a3d2e0403c02929-n-e-n">
          ...</div>
          ▼ <div class="treeview-node-container" data-id="e6a68aa636c86015161828bfc226db89" data-reactid=".0.0.$treenode-e6a68aa636c86015161828bfc226db89-n-e-n">
            ▶ <div class="treeview-cell-container" data-reactid=".0.0.$treenode-e6a68aa636c86015161828bfc226db89-n-e-n.$treeview-text-cell-space-1">_</div>
            ▶ <div class="treeview-cell-container" data-reactid=".0.0.$treenode-e6a68aa636c86015161828bfc226db89-n-e-n.$treeview-expand-cell">...</div>
            ▼ <div class="treeview-cell-container" data-reactid=".0.0.$treenode-e6a68aa636c86015161828bfc226db89-n-e-n.$treeview-icon-cell">
              ▼ <div class="treeview-cell-icon-container" data-reactid=".0.0.$treenode-e6a68aa636c86015161828bfc226db89-n-e-n.$treeview-icon-cell.0">
                ▶ <i class="fa fa-folder-o" data-uid="e6a68aa636c86015161828bfc226db89-icon" data-reactid=".0.0.$treenode-e6a68aa636c86015161828bfc226db89-n-e-
                n.$treeview-icon-cell.0.0">...</i>
                </div>
              </div>
            ▼ <div class="treeview-textbox-container" data-reactid=".0.0.$treenode-e6a68aa636c86015161828bfc226db89-n-e-n.$treeview-textbox">
                <div class="treeview-textbox-content" data-uid="e6a68aa636c86015161828bfc226db89-textbox" data-reactid=".0.0.$treenode-</pre>
                e6a68aa636c86015161828bfc226db89-n-e-n.$treeview-textbox.0">images</div>
              </div>
            </div>
```

▶ <div class="treeview-node-container" data-id="0047c4e80bc395f6b6f06461da025479" data-reactid=".0.0.\$treenode-0047c4e80bc395f6b6f06461da025479-n-n-n">

#### Treeview Data

```
app.tree1Data = {
   expandLevel: 3,
   treedata: [
         "name": "website",
         "iconClass": "fa fa-folder-o",
         "children": [
               "name": "images",
               "iconClass": "fa fa-folder-o",
               "children": [
                     "name": "logo.png",
                     "iconClass": "fa fa-file-image-o"
                     "name": "background.png",
                     "iconClass": "fa fa-file-image-o"
               "name": "index.html",
               "iconClass": "fa fa-file-text-o"
               "name": "about.html",
"iconClass": "fa fa-file-text-o"
               "name": "product.html",
"iconClass": "fa fa-file-text-o"
```

#### Create treeview

```
app.treeview1 = React.renderComponent(
    React.createElement(Treeview, {data: app.tree1Data}),
    document.getElementById('treeview1')
);
```

## Data Input is validated via mixin

```
var Treeview = React.createClass({
  name: 'treeview',
  mixins: [getCommonMixin],
  ...
```

### Data input has data model

Mixin function uses data model to populate this.state

### All React Classes follow this data input convention

- Treeview
- TreeviewNode
- TreeviewCell
- TreeviewTextBox

Reactlet components use same component design and API for ease of development.

Interface Design

Code and UI demo

#### Treeview is on NPM

https://www.npmjs.com/package/reactlet-treeview

More Reactlet components at:

http://reactlet.com/

# Source code on github

https://github.com/reactlet/treeview

https://github.com/reactlet/table

https://github.com/reactlet/calendar

Questions?