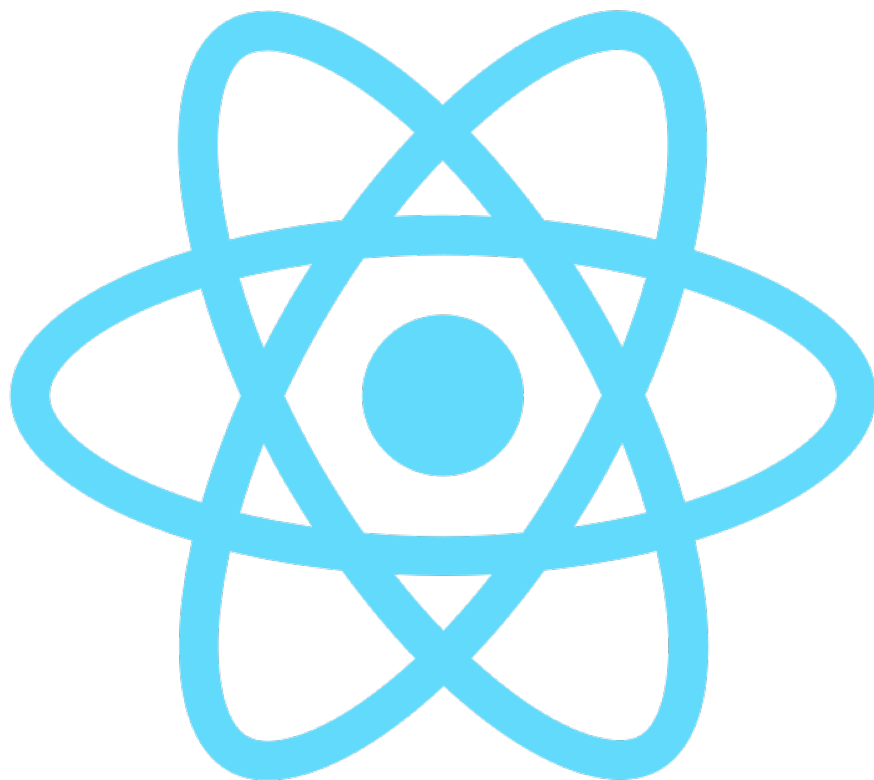


Introduction to ExtReact, ExtAngular, ExtWebComponents

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ExtReact & ExtAngular





Ext JS, React and Angular

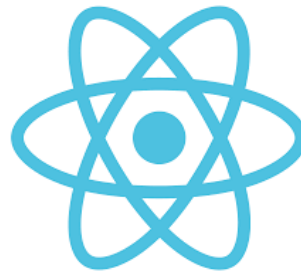


Ext JS

Ext JS Component

configs

items: []



React Component

props

Children elements

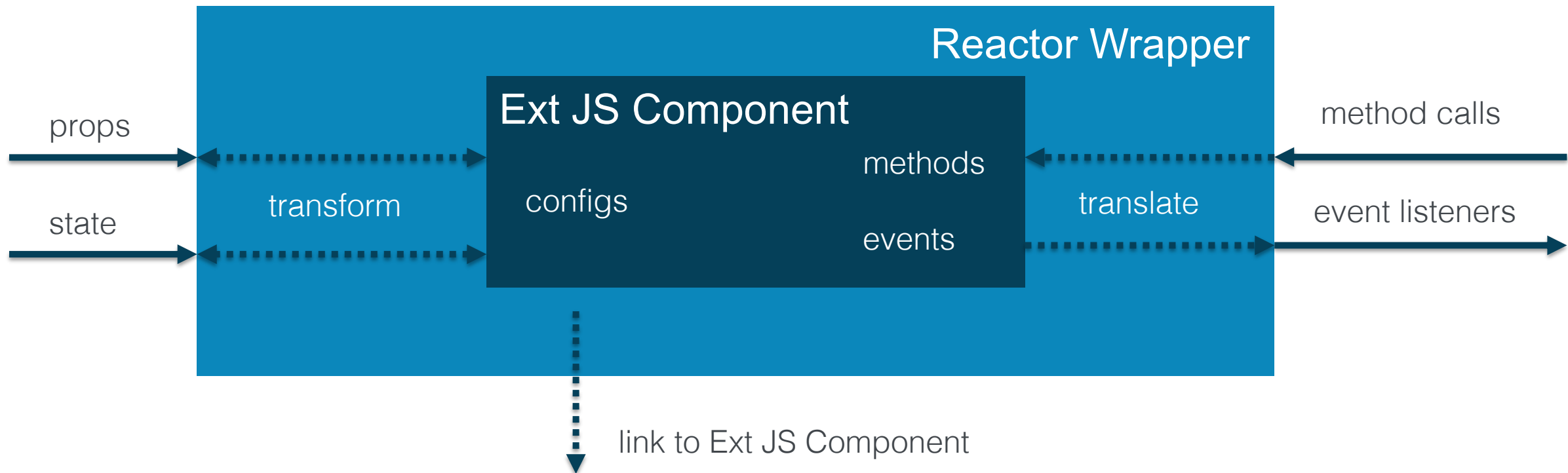


Angular Component

properties

Children elements

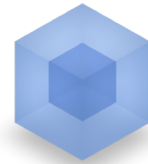
Concept



Architecture

React
Framework

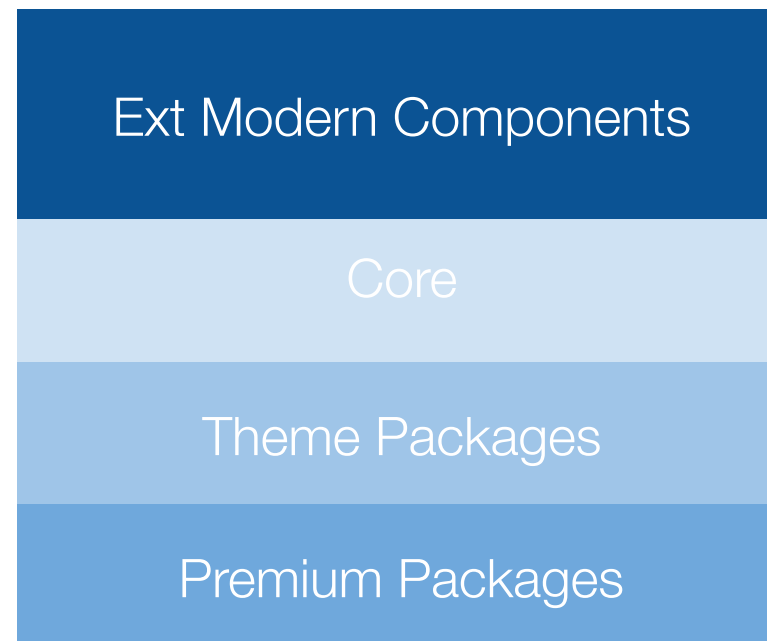
Angular
Framework



webpack
MODULE BUNDLER

Sencha
Themer

Sencha Test



ExtReact

```
import React, { Component } from 'react';
import { Grid, Column } from '@sencha/ext-modern';

export default class MyGrid extends Component {

  store = Ext.create('Ext.data.Store', {...});

  render() {
    return (
      <Grid title="Stock Prices" store={this.store}>
        <Column text="Company" dataIndex="name" width="150"/>
        <Column text="Price" width="85" dataIndex="price" formatter='usMoney' />
      </Grid>
    )
  }
}
```

MyGrid.js

ExtAngular

```
<container padding="10" layout="fit" [fitToParent]="true">
  <grid title="Stock Prices" [store]="store">
    <column text="Company" width="150" dataIndex="name"></column>
    <column text="Price" width="85" dataIndex="price" formatter="usMoney"></column>
    <column text="Last Updated" dataIndex="lastChange"></column>
  </grid>
</container>
```

MyGrid.html

```
import { Component } from '@angular/core';
@Component({
  selector: 'basicgrid-component',
  templateUrl: './MyGrid.html'
})
export class BasicGridComponent {
  store = Ext.create('Ext.data.Store', {...})
  constructor() {
    //...
  }
}
```

MyGrid.ts

Getting Started

ExtReact Trial:

<https://www.sencha.com/products/extreact/evaluate/>

ExtAngular Trial:

<https://www.sencha.com/products/extangular/evaluate/>

Setup

```
npm login --registry=https://npm.sencha.com --scope=@sencha
```

```
npm install -g @sencha/ext-react-gen
```

```
ext-react-gen app -i
```

Examples

ExtReact Kitchensink:

<https://examples.sencha.com/ExtReact/6.7.0/kitchensink/>

ExtAngular Kitchensink:

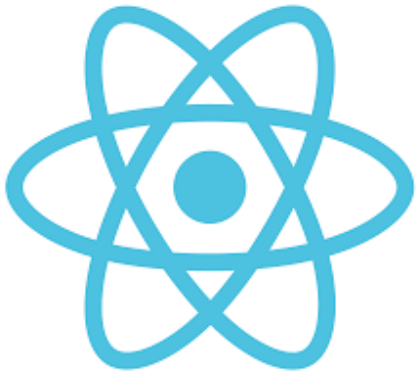
<https://examples.sencha.com/ExtAngular/6.7.0/kitchensink/>



Vue.js



WebComponents



VanillaJS



Specifications

- Custom Elements
- Shadow DOM
- ES Modules
- HTML Template

Custom HTML Tag

```
class MyAwesomeButton extends HTMLElement {...}  
window.customElements.define('my-awesome-button', MyAwesomeButton);
```

```
<my-awesome-button class="nice_style">Click me!</my-awesome-button>
```

```
var myAwesomeButton = document.createElement('my-awesome-button');  
  
document.body.appendChild(myAwesomeButton);  
  
document.querySelector('my-awesome-button')  
  .addEventListener('click', function() {...});
```

Browser support



CHROME



OPERA



SAFARI



FIREFOX



EDGE



TEMPLATES



STABLE



STABLE



STABLE



STABLE



STABLE



CUSTOM ELEMENTS



STABLE



STABLE



STABLE



POLYFILL



DEVELOPING



POLYFILL



CONSIDERING



SHADOW DOM



STABLE



STABLE



STABLE



POLYFILL



DEVELOPING



POLYFILL



CONSIDERING



<SCRIPT
TYPE="MODULE">



STABLE



STABLE



STABLE



FLAG IN 54



STABLE



HTML IMPORTS



STABLE



STABLE



POLYFILL



ON HOLD



POLYFILL



ON HOLD



POLYFILL



CONSIDERING

ExtWebComponents

ExtWebComponents

```
import '@sencha/ext-web-components/dist/ext-column.component';  
import '@sencha/ext-web-components/dist/ext-grid.component';
```

ExtWebComponents

```
<ext-panel width="100%" height="100%">
  <ext-grid multiColumnSort=true onready="basicgrid.onGridReady" title="Stock Prices">
    <ext-column text="Company" flex="1" dataIndex="name"></ext-column>
    <ext-column text="Price" dataIndex="price" formatter="usMoney"></ext-column>
    <ext-column text="Last Updated" dataIndex="lastChange"></ext-column>
  </ext-grid>
</ext-panel>
```

MyGrid.html

```
import './MyGrid.html';

export default class MyGrid {
  constructor() {
    this.store = Ext.create('Ext.data.Store', {...});
  }

  onGridReady = (event) => {
    this.gridCmp = event.detail.cmp;
    this.gridCmp.setStore(this.store);
  }
}
```

MyGrid.js

Getting Started

Early adopter access to ExtWebComponents Trial:

<https://www.sencha.com/products/extwebcomponents/evaluate/earlyaccess/>

Setup

```
npm login --registry=https://sencha.myget.org/F/early-adopter/npm/ --scope=@sencha
```

```
npm install -g @sencha/ext-web-components-gen
```

```
ext-web-components-gen app --name MyApp
```

Examples

ExtWebComponents Kitchensink:

<https://examples.sencha.com/ExtWebComponents/7.0.0/kitchensink/>

ExtReact
ExtAngular
ExtWebComponents

- 115+ UI Components
- Layout System
- Sencha Themer
- Sencha Test
- Sencha Cmd integration
- Ext JS component bridge
- Webpack: Build and Bundle

Introduction to ExtReact, ExtAngular, ExtWebComponents

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