

find packages





# Demo

Check out the **Homepage** and the **Codepen examples**.

## **Features**

- WAI-ARIA compliant, with support for ARIA attributes and keyboard interactions
- Mobile friendly
- Plugs in nicely to Flux and Redux applications
- Full control over suggestions rendering
- Suggestions can be presented as plain list or multiple sections
- Suggestions can be retrieved asynchronously
- Highlight the first suggestion in the list if you wish
- Supports styling using CSS Modules, Radium, Aphrodite, JSS, and more
- You decide when to show suggestions (e.g. when user types 2 or more characters)

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moroshko published a ...

**9.3.2** is the latest of 116 rel...

github.com/moroshko/reac...

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## Collaborators list



## **Stats**

**8 501** downloads in the last...

- Always render suggestions (useful for mobile and modals)
- Pass through arbitrary props to the input (e.g. placeholder, type, onChange, onBlur, or any other), or take full control on the rendering of the input (useful for integration with other libraries)
- Thoroughly tested

# Installation

```
yarn add react-autosuggest

or

npm install react-autosuggest --save
```

You can also use the standalone UMD build:

```
<script src="https://unpkg.com/react-autosu"
</pre>
```

# **Basic Usage**

**41 999** downloads in the la...

**199 093** downloads in the l...

52 open issues on GitHub

7 open pull requests on Git...

# Try it out

Test react-autosuggest ...

# Keywords

auto-suggest, auto-complete, auto-suggest, auto-complete, auto suggest, auto complete, react autosuggest, react auto-complete, react auto-complete, react auto suggest, react auto-complete, react auto suggest, react auto-complete, react-autosuggest, react-auto-suggest, react-auto-complete, react-auto-complete, react-omponent

# Dependencies (3)

prop-types, reactautowhatever, shallow-equal

# Dependents (103)

@navrin/react-chips, react-components-form, cboard,

```
year: 19/2
                                                           seek-style-guide, zenith-
                                                           common, ba-react-fetch-list-
                                                           api, azsearch.js, catalyst-ui,
    name: 'Elm',
                                                           react-github-field, jane-maps,
    year: 2012
                                                           rm3-tag-control, laji-form,
                                                           web-modules-core, ims-
                                                           shared-client, team-directory,
];
                                                           smoke-editor, react-chips,
                                                           rebass-autosuggest, react-
// Teach Autosuggest how to calculate sugge
                                                           django-selectable, react-
const getSuggestions = value => {
                                                           frontend, zooid-ui-device-
  const inputValue = value.trim().toLowerCa
                                                           picker, samplereactcomp,
  const inputLength = inputValue.length;
                                                           react-bootstrap-table-mithun,
                                                           candidate2, coapps-
  return inputLength === 0 ? [] : languages
                                                           framework, @gogeo/react-
    lang.name.toLowerCase().slice(0, inputL
                                                           autosuggest, nlx-react-
  );
                                                           common, mdlReact, true-mnp,
};
                                                           redis-live, drw-react.
                                                           typography-design-tools,
// When suggestion is clicked, Autosuggest
                                                           nukleus, netlify-cms, wix-style-
// based on the clicked suggestion. Teach A
                                                           react, bpk-component-
// input value for every given suggestion.
                                                           autosuggest, react-
const getSuggestionValue = suggestion => su
                                                           autosuggest-geocoder, uol-
                                                           frontend-framework,
// Use your imagination to render suggestic
                                                           oddsmarket-site, labo-
const renderSuggestion = suggestion => (
                                                           components, react-generic,
  <div>
                                                           @kupibilet/ui, coderbox-
     {suggestion.name}
                                                           components,
  </div>
                                                           @appbaseio/reactivebase,
);
                                                           zenith-workers, uglibrary-
                                                           react-toolbox,
class Example extends React.Component {
                                                           @coderbox/components, ucsc-
  constructor() {
```

```
super();
  // Autosuggest is a controlled componen
  // This means that you need to provide
  // and an onChange handler that updates
  // Suggestions also need to be provided
  // and they are initially empty because
  this.state = {
   value: '',
    suggestions: []
  };
onChange = (event, { newValue }) => {
 this.setState({
   value: newValue
 });
};
// Autosuggest will call this function ev
// You already implemented this logic abo
onSuggestionsFetchRequested = ({ value })
  this.setState({
    suggestions: getSuggestions(value)
 });
};
// Autosuggest will call this function ev
onSuggestionsClearRequested = () => {
  this.setState({
    suggestions: []
 });
};
```

xena-client, style-panel, flexeditor, and more

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```
render() {
  const { value, suggestions } = this.sta
  // Autosuggest will pass through all th
 const inputProps = {
    placeholder: 'Type a programming lang
   value,
    onChange: this.onChange
  } ;
  // Finally, render it!
 return (
   Autosuggest
      suggestions={suggestions}
      onSuggestionsFetchRequested={this.o
      onSuggestionsClearRequested={this.o
      getSuggestionValue={getSuggestionVa
      renderSuggestion={renderSuggestion}
      inputProps={inputProps}
   />
 );
```

# Props

prop	type	required	description

suggestions	Array	<b>√</b>	These are the suggestions that will be displayed. Items can take an arbitrary shape.
onSuggestionsFetchRequested	Function	✓	Will be called every time you need to recalculate suggestions.
onSuggestionsClearRequested	Function	<b>√</b> *	Will be called every time you need to set suggestions to [].
getSuggestionValue	Function	<b>√</b>	Implement it to teach Autosuggest what should be the input value when suggestion is clicked.
renderSuggestion	Function	<b>√</b>	Use your imagination to define how suggestions are rendered.

inputProps	Object	<b>√</b>	Pass through arbitrary props to the input. It must contain at least value and onChange.
onSuggestionSelected	Function		Will be called every time suggestion is selected via mouse or keyboard.
onSuggestionHighlighted	Function		Will be called every time the highlighted suggestion changes.
shouldRenderSuggestions	Function		When the input is focused, Autosuggest will consult this function when to render suggestions. Use it, for example, if you want to display suggestions when input value is at least 2 characters long.

alwaysRenderSuggestions	Boolean	Set it to true if you'd like to render suggestions even when the input is not focused.
highlightFirstSuggestion	Boolean	Set it to true if you'd like Autosuggest to automatically highlight the first suggestion.
focusInputOnSuggestionClick	Boolean	Set it to false if you don't want Autosuggest to keep the input focused when suggestions are clicked/tapped.
multiSection	Boolean	Set it to true if you'd like to display suggestions in multiple sections (with optional titles).

renderSectionTitle	Function	√ when multiSection= {true}	Use your imagination to define how section titles are rendered.
getSectionSuggestions	Function	√ when multiSection= {true}	Implement it to teach Autosuggest where to find the suggestions for every section.
renderInputComponent	Function		Use it only if you need to customize the rendering of the input.
renderSuggestionsContainer	Function		Use it if you want to customize things inside the suggestions container beyond rendering the suggestions themselves.
theme	Object		Use your imagination to style the Autosuggest.

			Use it only if
id	String		you have
			multiple
			Autosuggest
			components on
			a page.

# suggestions (required)

Array of suggestions to display. The only requirement is that suggestions is an array. Items in this array can take an arbitrary shape.

For a plain list of suggestions, every item in suggestions represents a single suggestion. It's up to you what shape every suggestion takes. For example:

```
const suggestions = [
    text: 'Apple'
    text: 'Banana'
    text: 'Cherry'
  },
    text: 'Grapefruit'
  },
    text: 'Lemon'
];
```

For multiple sections, every item in suggestions represents a single section. Again, it's up to you what shape every section takes. For example:

```
const suggestions = [
    title: 'A',
    suggestions: [
        id: '100',
        text: 'Apple'
     },
        {
        id: '101',
```

```
text: 'Apricot'
    title: 'B',
    suggestions: [
        id: '102',
        text: 'Banana'
    title: 'C',
    suggestions: [
        id: '103',
        text: 'Cherry'
];
```

# onSuggestionsFetchRequested (required)

This function will be called every time you might need to update **suggestions**. It has the following signature:

function onSuggestionsFetchRequested({ valu

#### where:

- value the current value of the input
- reason string describing why onSuggestionsFetchRequested was called. The possible values are:
  - 'input-changed' user typed something
  - 'input-focused' input was focused
  - 'escape-pressed' user pressed Escape to clear the input (and suggestions are shown for empty input)
  - 'suggestions-revealed' user pressed Up or Down to reveal suggestions
  - 'suggestion-selected' user selected a suggestion when alwaysRenderSuggestions={true}

# onSuggestionsClearRequested (required unless alwaysRenderSuggestions={true})

This function will be called every time you need to clear suggestions.

All you have to do in this function is to set suggestions to [].

**Note:** When alwaysRenderSuggestions={true}, you don't have to implement this function.

## getSuggestionValue (required)

When user navigates the suggestions using the Up and Down keys, the input value should be set according to the highlighted suggestion. You design how suggestion is modelled. Therefore, it's your responsibility to tell Autosuggest how to map suggestions to input values.

This function gets the suggestion in question, and it should return a string. For example:

```
function getSuggestionValue(suggestion) {
  return suggestion.text;
}
```

# renderSuggestion (required)

Use your imagination to define how suggestions are rendered.

The signature is:

```
function renderSuggestion(suggestion, { que
```

where:

- suggestion The suggestion to render
- query Used to highlight the matching string. As user types
  in the input, query will be equal to the trimmed value of the
  input. Then, if user interacts using the Up or Down keys, the
  input will get the value of the highlighted suggestion, but
  query will remain to be equal to the trimmed value of the
  input prior to the Up and Down interactions.
- isHighlighted Whether or not the suggestion is highlighted.

It should return a string or a ReactElement. For example:

```
function renderSuggestion(suggestion) {
   return (
      <span>{suggestion.text}</span>
   );
}
```

**Important:** renderSuggestion must be a pure function (we optimize rendering performance based on this assumption).

## inputProps (required)

Autosuggest is a **controlled component**. Therefore, you MUST pass at least a value and an onChange callback to the input. You can pass any other props as well. For example:

# inputProps.onChange (required)

The signature is:

```
function onChange(event, { newValue, method
```

#### where:

- newValue the new value of the input
- method string describing how the change has occurred. The possible values are:
  - 'down' user pressed Down
  - 'up' user pressed Up
  - 'escape' user pressed Escape
  - 'enter' user pressed Enter

- 'click' user clicked (or tapped) on suggestion
- 'type' none of the methods above (usually means that user typed something, but can also be that they pressed Backspace, pasted something into the input, etc.)

# inputProps.onBlur (optional)

The signature is:

```
function onBlur(event, { highlightedSuggest
```

#### where:

 highlightedSuggestion - the suggestion that was highlighted just before the input lost focus, or null if there was no highlighted suggestion.

## onSuggestionSelected (optional)

This function is called when suggestion is selected. It has the following signature:

```
function onSuggestionSelected(event, { sugg
```

#### where:

- suggestion the selected suggestion
- suggestionValue the value of the selected suggestion (equivalent to getSuggestionValue(suggestion))
- suggestionIndex the index of the selected suggestion in the suggestions array
- sectionIndex when rendering multiple sections, this will be the section index (in suggestions) of the selected

- suggestion. Otherwise, it will be null.
- method string describing how user selected the suggestion.
   The possible values are:
  - 'click' user clicked (or tapped) on the suggestion
  - 'enter' user selected the suggestion using Enter

# onSuggestionHighlighted (optional)

This function is called when the highlighted suggestion changes. It has the following signature:

function onSuggestionHighlighted({ suggesti

#### where:

• suggestion - the highlighted suggestion, or null if there is no highlighted suggestion.

## shouldRenderSuggestions (optional)

By default, suggestions are rendered when the input isn't blank. Feel free to override this behaviour.

This function gets the current value of the input, and it should return a boolean.

For example, to display suggestions only when input value is at least 3 characters long, do:

```
function shouldRenderSuggestions(value) {
  return value.trim().length > 2;
}
```

When shouldRenderSuggestions returns true, **suggestions** will be rendered only when the input is focused.

If you would like to render suggestions regardless of whether the input is focused or not, set alwaysRenderSuggestions= {true} (shouldRenderSuggestions is ignored in this case).

# alwaysRenderSuggestions (optional)

Set alwaysRenderSuggestions={true} if you'd like to always render the suggestions.

**Important:** Make sure that the initial value of suggestions corresponds to the initial value of inputProps.value. For example, if you'd like to show all the suggestions when the input is empty, your initial state should be something like:

```
this.state = {
  value: '',
  suggestions: allSuggestions
};
```

## highlightFirstSuggestion (optional)

When highlightFirstSuggestion={true}, Autosuggest will automatically highlight the first suggestion. Defaults to false.

# focusInputOnSuggestionClick (optional)

By default, focusInputOnSuggestionClick={true}, which means that, every time suggestion is clicked (or tapped), the input keeps the focus.

On mobile devices, when the input is focused, the native keyboard appears. You'll probably want to lose the focus when

suggestion is tapped in order to hide the keyboard.

You can do something like this:

```
<Autosuggest focusInputOnSuggestionClick={!</pre>
```

where isMobile is a boolean describing whether Autosuggest operates on a mobile device or not. You can use kaimallea/isMobile, for example, to determine that.

## multiSection (optional)

By default, Autosuggest renders a plain list of suggestions.

If you'd like to have multiple sections (with optional titles), set multiSection={true}.

# renderSectionTitle (required when multiSection= {true})

When rendering multiple sections, you need to tell Autosuggest how to render a section title.

This function gets the section to render (an item in the suggestions array), and it should return a string or a ReactElement. For example:

If renderSectionTitle returns null or undefined, section title is not rendered.

# getSectionSuggestions (required when multiSection={true})

When rendering **multiple sections**, you need to tell Autosuggest where to find the suggestions for a given section.

This function gets the section to render (an item in the suggestions array), and it should return an array of suggestions to render in the given section. For example:

```
function getSectionSuggestions(section) {
  return section.suggestions;
}
```

**Note:** Sections with no suggestions are not rendered.

## renderInputComponent (optional)

You shouldn't specify renderInputComponent unless you want to customize the rendering of the input.

To keep Autosuggest accessible, renderInputComponent MUST:

- render an input
- pass through all the provided inputProps to the input

Example:

**Note:** When using renderInputComponent, you still need to specify the usual **inputProps**. Autosuggest will merge the inputProps that you provide with other props that are needed for accessibility (e.g. 'aria-activedescendant'), and will pass the **merged inputProps** to renderInputComponent.

# renderSuggestionsContainer (optional)

You shouldn't specify renderSuggestionsContainer unless you want to customize the content or behaviour of the suggestions container beyond rendering the suggestions themselves. For example, you might want to add a custom text before/after the suggestions list, or to customize the scrolling behaviour of the suggestions container.

The signature is:

```
function renderSuggestionsContainer({ conta
```

where:

• containerProps - props that you MUST pass to the topmost element that is returned from renderSuggestionsContainer.

- children the suggestions themselves. It's up to you where to render them.
- query Same as query in **renderSuggestion**.

For example:

When renderSuggestionsContainer returns a composite component (e.g. <IsolatedScroll ... /> as opposed to a DOM node like <div ... />), you MUST call containerProps.ref with the topmost element that the composite component renders.

For example:

```
import IsolatedScroll from 'react-isolated-
function renderSuggestionsContainer({ conta
  const { ref, ...restContainerProps } = co
  const callRef = isolatedScroll => {
    if (isolatedScroll !== null) {
      ref(isolatedScroll.component);
  };
  return (
    <IsolatedScroll ref={callRef} {...restC</pre>
      {children}
    </IsolatedScroll>
 );
```

# theme (optional)

Autosuggest comes with no styles.

It uses **react-themeable** that allows you to style your Autosuggest component using **CSS Modules**, **Radium**, **Aphrodite**, **JSS**, **Inline styles**, and global CSS.

For example, to style the Autosuggest using CSS Modules, do:

```
/* theme.css */
.container { ... }
.input { ... }
.suggestionsContainer { ... }
.suggestion { ... }
.suggestionHighlighted { ... }
...

import theme from 'theme.css';

<Autosuggest theme={theme} ... />
```

When not specified, theme defaults to:

```
container:
                          'react-autosugg
containerOpen:
                          'react-autosugg
input:
                          'react-autosugg
inputOpen:
                          'react-autosugg
inputFocused:
                          'react-autosugg
suggestionsContainer:
                          'react-autosugg
suggestionsContainerOpen: 'react-autosugg
suggestionsList:
                          'react-autosugg
suggestion:
                          'react-autosugg
suggestionFirst:
                          'react-autosugg
suggestionHighlighted:
                          'react-autosugg
sectionContainer:
                          'react-autosugg
sectionContainerFirst:
                          'react-autosugg
sectionTitle:
                          'react-autosugg
```

The following picture illustrates how theme keys correspond to Autosuggest DOM structure:

