# Input 🗸

A basic widget for getting the user input is a text field. Keyboard and mouse can be used for providing or changing data.

# When To Use

- A user input in a form field is needed.
- A search input is required.

# Examples

```
Basic usage Basic usage Basic usage example.

import React from 'react';
import { Input } from 'antd';

const App: React.FC = () => <Input placeholder
export default App;
```

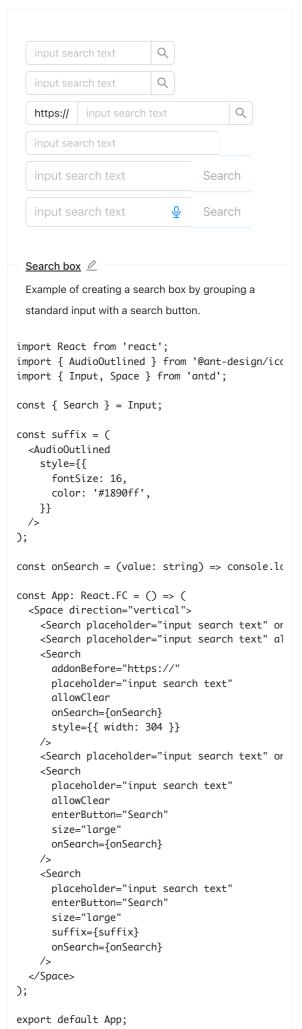


#### Pre / Post tab

Using pre & post tabs example.

```
import React from 'react';
import { SettingOutlined } from '@ant-design/i
import { Cascader, Input, Select, Space } from
const { Option } = Select;
const selectBefore = (
  <Select defaultValue="http://">
    <Option value="http://">http://</Option>
    <Option value="https://">https://</Option>
  </Select>
);
const selectAfter = (
  <Select defaultValue=".com">
    <Option value=".com">.com</Option>
    <Option value=".jp">.jp</Option>
    <Option value=".cn">.cn</Option>
    <Option value=".org">.org</Option>
  </Select>
);
const App: React.FC = () => (
  <Space direction="vertical">
    <Input addonBefore="http://" addonAfter=".</pre>
    <Input addonBefore={selectBefore} addonAft</pre>
    <Input addonAfter={<SettingOutlined />} de
    <Input addonBefore="http://" suffix=".com'</pre>
    <Input
      addonBefore={<Cascader placeholder="casc
      defaultValue="mysite"
    />
  </Space>
);
export default App;
```

```
A large size
   A default size
   A small size
 Three sizes of Input 🖉
 There are three sizes of an Input box: large
 (40px), default (32px) and small (24px).
import React from 'react';
import { UserOutlined } from '@ant-design/icor
import { Input } from 'antd';
const App: React.FC = () => (
    <Input size="large" placeholder="large siz</pre>
    <br />
    <br />
    <Input placeholder="default size" prefix={</pre>
    <br />
    <br />
    <Input size="small" placeholder="small siz</pre>
  </>
);
export default App;
```



```
26888888
            26888888
   0571
                                       Q
   https://
   Combine input and button
   Zhejiang V
                Xihu District, Hangzhou
        large size
 Compact Style /
 Use Space.Compact create compact style, See
 the Space.Compact documentation for more.
import { SearchOutlined } from '@ant-design/ic
import { Button, Input, Select, Space } from '
import React from 'react';
const { Search } = Input;
const options = [
  {
    value: 'zhejiang',
    label: 'Zhejiang',
  },
  {
    value: 'jiangsu',
    label: 'Jiangsu',
  },
];
const App: React.FC = () \Rightarrow (
  <Space direction="vertical" size="middle">
    <Space.Compact>
      <Input defaultValue="26888888" />
    </Space.Compact>
    <Space.Compact>
      <Input style={{ width: '20%' }} default\</pre>
      <Input style={{ width: '80%' }} default\</pre>
    </Space.Compact>
    <Space.Compact>
      <Search addonBefore="https://" placeholα</pre>
    </Space.Compact>
    <Space.Compact style={{ width: '100%' }}>
      <Input defaultValue="Combine input and t</pre>
      <Button type="primary">Submit</Button>
    </Space.Compact>
    <Space.Compact>
      <Select defaultValue="Zhejiang" options=</pre>
      <Input defaultValue="Xihu District, Hang</pre>
    </Space.Compact>
    <Space.Compact size="large">
      <Input addonBefore={<SearchOutlined />}
      <Input placeholder="another input" />
    </Space.Compact>
  </Space>
);
export default App;
```

```
maxLength is 6

TextArea 
For multi-line input.

import React from 'react';
```

```
input search loading default
   input search loading with enterButton
   input search text
 Search box with loading 🖉
 Search loading when onSearch.
import React from 'react';
import { Input } from 'antd';
const { Search } = Input;
const App: React.FC = () => (
    <Search placeholder="input search loading</pre>
    <br />
    <Search placeholder="input search loading</pre>
    <br />
    <br />
    <Search placeholder="input search text" er</pre>
 </>
);
export default App;
```

Input a numb...

#### Format Tooltip Input 🖉

You can use the Input in conjunction with <u>Tooltip</u> component to create a Numeric Input, which can provide a good experience for extra-long content display.

```
import React, { useState } from 'react';
import { Input, Tooltip } from 'antd';
interface NumericInputProps {
  style: React.CSSProperties;
  value: string;
  onChange: (value: string) => void;
}
const formatNumber = (value: number) => new Ir
const NumericInput = (props: NumericInputProps
  const { value, onChange } = props;
  const handleChange = (e: React.ChangeEvent<+</pre>
    const { value: inputValue } = e.target;
    const reg = /^-?\d^*(\.\d^*)?$/;
    if (reg.test(inputValue) || inputValue ===
      onChange(inputValue);
    }
  };
  // '.' at the end or only '-' in the input Ł
  const handleBlur = () => {
    let valueTemp = value;
    if (value.charAt(value.length - 1) === '.'
      valueTemp = value.slice(0, -1);
    onChange(valueTemp.replace(/0*(\d+)/, '$1'
  };
  const title = value ? (
    <span className="numeric-input-title">{val
  ):(
    'Input a number'
  );
    <Tooltip trigger={['focus']} title={title}
      <Input
        {...props}
        onChange={handleChange}
        onBlur={handleBlur}
        placeholder="Input a number"
        maxLength={16}
      />
    </Tooltip>
  );
const App: React.FC = () => {
  const [value, setValue] = useState('');
  return <NumericInput style={{ width: 120 }}</pre>
};
export default App;
```

Autosize height based on content lines

Autosize height with minimum and maximum number of lines

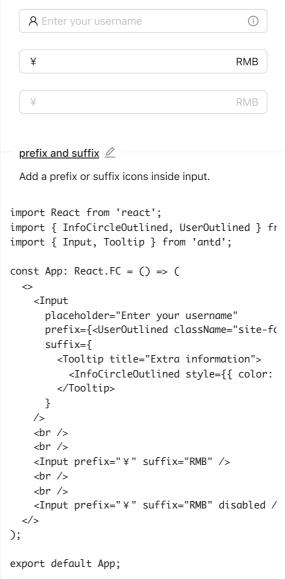
Controlled autosize

#### Autosizing the height to fit the content *Q*

autoSize prop for a textarea type of Input makes the height to automatically adjust based on the content. An option object can be provided to autoSize to specify the minimum and maximum number of lines the textarea will automatically adjust.

```
import React, { useState } from 'react';
import { Input } from 'antd';
const { TextArea } = Input;
const App: React.FC = () => {
  const [value, setValue] = useState('');
  return (
      <TextArea placeholder="Autosize height k
      <div style={{ margin: '24px 0' }} />
      <TextArea
        placeholder="Autosize height with mini
        autoSize={{ minRows: 2, maxRows: 6 }}
      <div style={{ margin: '24px 0' }} />
      <TextArea
        value={value}
        onChange={(e) => setValue(e.target.val
        placeholder="Controlled autosize"
        autoSize={{ minRows: 3, maxRows: 5 }}
      />
    </>
  );
};
export default App;
```





```
0/20
                                         0 / 100
  With character counting /
  Show character counting.
import React from 'react';
import { Input } from 'antd';
const { TextArea } = Input;
const onChange = (e: React.ChangeEvent<HTMLInr</pre>
  console.log('Change:', e.target.value);
};
const App: React.FC = () => (
    <Input showCount maxLength={20} onChange={</pre>
    <br />
    <br />
    <TextArea showCount maxLength={100} onChar
  </>
);
```

```
export default App;
   Warning
   U Error with prefix
   Warning with prefix
 Status 🖉
 Add status to Input with status, which could be
  error or warning .
import React from 'react';
import ClockCircleOutlined from '@ant-design/i
import { Input, Space } from 'antd';
const App: React.FC = () => (
  <Space direction="vertical" style={{ width:</pre>
    <Input status="error" placeholder="Error"</pre>
    <Input status="warning" placeholder="Warni</pre>
    <Input status="error" prefix={<ClockCircle</pre>
    <Input status="warning" prefix={<ClockCirc</pre>
  </Space>
);
export default App;
```

```
input with clear icon

textarea with clear icon

With clear icon 

Input box with the remove icon, click the icon to delete everything.

import React from 'react'; import { Input } from 'antd';

const { TextArea } = Input;

const onChange = (e: React.ChangeEvent<HTMLIng console.log(e);
```

<Input placeholder="input with clear icon'</pre>

<TextArea placeholder="textarea with clear

const App: React.FC =  $() \Rightarrow ($ 

<br />

<br />

export default App;

);

```
Focus at first
                    Focus at last
   Focus to select all
                        Focus prevent scroll
   Input
   Ant Design love you!
 Focus 🖉
 Focus with additional option.
import React, { useRef, useState } from 'react
import type { InputRef } from 'antd';
import { Button, Input, Space, Switch } from '
const App: React.FC = () => {
 const inputRef = useRef<InputRef>(null);
 const [input, setInput] = useState(true);
 const sharedProps = {
   style: { width: '100%' },
   defaultValue: 'Ant Design love you!',
   ref: inputRef,
 };
 return (
    <Space direction="vertical" style={{ width</pre>
      <Space wrap>
        <Button
          onClick={() => {
            inputRef.current!.focus({
              cursor: 'start',
            });
          }}
          Focus at first
        </Button>
        <Button
          onClick={() => {
            inputRef.current!.focus({
              cursor: 'end',
            });
          }}
          Focus at last
        </Button>
        <Button
          onClick={() => {
            inputRef.current!.focus({
              cursor: 'all',
            });
          }}
          Focus to select all
        </Button>
        <Button
          onClick={() => {
            inputRef.current!.focus({
              preventScroll: true,
            });
          }}
          Focus prevent scroll
        </Button>
        <Switch
          checked={input}
          checkedChildren="Input"
```

```
0 / 100
                                       0 / 100
 Textarea with character counting P
 Show character counting.
import React from 'react';
import { Input } from 'antd';
const { TextArea } = Input;
const onChange = (e: React.ChangeEvent<HTMLTe>
 console.log('Change:', e.target.value);
};
const App: React.FC = () => (
    <TextArea
      showCount
      maxLength={100}
      style={{ height: 120, marginBottom: 24 }
      onChange={onChange}
      placeholder="can resize"
    />
    <TextArea
      showCount
      maxLength={100}
      style={{ height: 120, resize: 'none' }}
      onChange={onChange}
      placeholder="disable resize"
    />
  </>
);
```

```
Borderless P

No border.

import React from 'react';
import { Input } from 'antd';

const App: React.FC = () => <Input placeholder

export default App;
```

export default App;

```
unCheckedChildren="TextArea"
  onChange={() => {
    setInput(!input);
    }}
  />
  </Space>
  <br />
  {input ? <Input {...sharedProps} /> : <]</pre>
```

|                                   | uc {silai eari ops; // . <1  |  |         |                                |
|-----------------------------------|--|--|---------|--------------------------------|
| Property                          | Description  | Туре   | Default | Version                        |
| export default App;<br>addonAfter | The label text displayed after (on the right side of) the input field              | ReactNode  | -       |                                |
| addonBefore                       | The label text displayed before (on the left side of) the input field              | ReactNode  | -       |                                |
| allowClear                        | If allow to remove input content with clear icon                                   | <pre>boolean   { clearIcon: ReactNode }</pre>  | false   |                                |
| bordered                          | Whether has border style   | boolean  | true    | 4.5.0                          |
| classNames                        | Semantic DOM class   | Record< <u>SemanticDOM</u> ,<br>string>  | -       | 5.4.0                          |
| defaultValue                      | The initial input content  | string   | -       |                                |
| disabled                          | Whether the input is disabled  | boolean  | false   |                                |
| id                                | The ID for input   | string   | -       |                                |
| maxLength                         | The maximum number of characters in Input  | number   | -       |                                |
| showCount                         | Whether to show character count  | <pre>boolean   { formatter: (info: { value: string, count: number, maxLength?: number }) =&gt; ReactNode }</pre> | false   | 4.18.0<br>info.value<br>4.23.0 |
| status                            | Set validation status  | 'error'   'warning'  | -       | 4.19.0                         |
| styles                            | Semantic DOM style   | Record< <u>SemanticDOM</u> ,<br>CSSProperties>   | -       | 5.4.0                          |
| prefix                            | The prefix icon for the Input  | ReactNode  | -       |                                |
| size                              | The size of the input box. Note: in the context of a form, the middle size is used | large   middle   small   | -       |                                |
| suffix                            | The suffix icon for  | ReactNode  | -       |                                |
|                                   |  |  |         |                                |

| Property     | Description   | Туре        | Default | Version |
|--------------|---|-------------|---------|---------|
|              | the Input   |             |         |         |
| type         | The type of input, see: MDN( use Input.TextArea instead of type="textarea")   | string      | text    |         |
| value        | The input content value   | string      | -       |         |
| onChange     | Callback when user input  | function(e) | -       |         |
| onPressEnter | The callback<br>function that is<br>triggered when<br>Enter key is<br>pressed | function(e) | -       |         |

When Input is used in a Form.Item context, if the Form.Item has the id and options props defined then value, defaultValue, and id props of Input are automatically set.

The rest of the props of Input are exactly the same as the original  $\underline{\text{input}}$ .

## Input.TextArea

| Property     | Description   | Type  | Default | Version                                    |
|--------------|---|---|---------|--|
| allowClear   | If allow to remove input content with clear icon  | boolean   | false   |  |
| autoSize     | Height autosize feature, can be set to true   false or an object { minRows: 2, maxRows: 6 } | boolean   object  | false   |  |
| bordered     | Whether has border style  | boolean   | true    | 4.5.0                                      |
| classNames   | Semantic DOM class  | Record< <u>SemanticDOM</u> ,<br>string>   | _       | 5.4.0                                      |
| defaultValue | The initial input content   | string  | -       |  |
| maxLength    | The maximum number of characters in TextArea  | number  | -       | 4.7.0                                      |
| showCount    | Whether to show character count   | <pre>boolean   { formatter: (info: {   value: string,   count: number,   maxLength?: number }) =&gt; string }</pre> | false   | 4.7.0 formatter: 4.10.0 info.value: 4.23.0 |
| styles       | Semantic DOM style  | Record< <u>SemanticDOM</u> ,  | -       | 5.4.0                                      |

| Property     | Description   | Type                                   | Default | Version |
|--------------|---|--|---------|---------|
|              |   | CSSProperties>                         |         |         |
| value        | The input content value   | string                                 | -       |         |
| onPressEnter | The callback<br>function that is<br>triggered when<br>Enter key is<br>pressed | function(e)                            | -       |         |
| onResize     | The callback function that is triggered when resize                           | <pre>function({ width, height })</pre> | -       |         |

The rest of the props of  $\ \mbox{Input.TextArea}\ \ \mbox{are the same as the original } \mbox{textarea}.$ 

## Input.Search

| Property    | Description  | Type                      | Default |
|-------------|--|---------------------------|---------|
| enterButton | Whether to show an enter button after input. This property conflicts with the addonAfter property        | boolean  <br>ReactNode    | false   |
| loading     | Search box with loading  | boolean                   | false   |
| onSearch    | The callback function triggered when you click on the search-icon, the clear-icon or press the Enter key | function(value,<br>event) | -       |

Supports all props of  $\boxed{\mbox{ Input }}.$ 

## Input.Password

| Property         | Description  | Туре                                 | Default  |
|------------------|--|--------------------------------------|--|
| iconRender       | Custom toggle<br>button                                      | (visible) =><br>ReactNode            | <pre>(visible) =&gt; (visible ? <eyeoutlined></eyeoutlined> : <eyeinvisibleoutlined></eyeinvisibleoutlined>)</pre> |
| visibilityToggle | Whether show toggle<br>button or control<br>password visible | boolean  <br><u>VisibilityToggle</u> | true   |

## VisibilityToggle

| Property        | Description                                       | Туре    | Default | Version |
|-----------------|---|---------|---------|---------|
| visible         | Whether the password is show or hide              | boolean | false   | 4.24.0  |
| onVisibleChange | Callback executed when visibility of the password | boolean | -       | 4.24.0  |

| Property | Description | Type | Default | Version |
|----------|-------------|------|---------|---------|
|          | is changed  |      |         |         |

## Input Methods

| Name  | Description  | Parameters  | Version               |
|-------|--------------|---|-----------------------|
| blur  | Remove focus | -   |                       |
| focus | Get focus    | <pre>(option?: { preventScroll?: boolean, cursor?: 'start'   'end'   'all' })</pre> | option<br>-<br>4.10.0 |

#### Semantic DOM

## Input

| Property | Description        | Version |
|----------|--------------------|---------|
| input    | input element      | 5.4.0   |
| prefix   | Wrapper of prefix  | 5.4.0   |
| suffix   | Wrapper of suffix  | 5.4.0   |
| count    | Text count element | 5.4.0   |

#### Input.TextArea

| Property | Description        | Version |
|----------|--------------------|---------|
| textarea | textarea element   | 5.4.0   |
| count    | Text count element | 5.4.0   |

# Design Token

#### **▼** Global Token

| Token Name               | Description  | Туре   | Default Value        |
|--------------------------|--|--------|----------------------|
| colorBgContainer         | Container background color, e.g: default button, input box, etc. Be sure not to confuse this with `colorBgElevated`. | string | #ffffff              |
| colorBgContainerDisabled | Control the background color of container in disabled state.   | string | □rgba(0, 0, 0, 0.04) |
| colorBorder              | Default border color, used to separate different elements, such as: form separator, card separator, etc.             | string | □ #d9d9d9            |

| Token Name            | Description   | Туре   | Default Value           |
|-----------------------|---|--------|-------------------------|
| colorError            | Used to represent the visual elements of the operation failure, such as the error Button, error Result component, etc.  | string | □#ff4d4f                |
| colorErrorBorderHover | The hover state border color of the error state.  | string | □ #ffa39e               |
| colorErrorOutline     | Control the outline color of input component in error state.  | string | □rgba(255, 38, 5, 0.06) |
| colorFillAlter        | Control the alternative background color of element.  | string | □rgba(0, 0, 0, 0.02)    |
| coloricon             | Weak action. Such as `allowClear` or Alert close button   | string | □rgba(0, 0, 0, 0.45)    |
| colorlconHover        | Weak action hover color. Such as `allowClear` or Alert close button   | string | □rgba(0, 0, 0, 0.88)    |
| colorPrimary          | Brand color is one of the most direct visual elements to reflect the characteristics and communication of the product. After you have selected the brand color, we will automatically generate a complete color palette and assign it effective design semantics. | string | □ #1677ff               |
| colorPrimaryActive    | Dark active state under the main color gradient.  | string | □ #0958d9               |
| colorPrimaryHover     | Hover state under the main color gradient.  | string | □ #4096ff               |
| colorText             | Default text color which comply with W3C standards, and this color is also the darkest neutral color.   | string | □rgba(0, 0, 0, 0.88)    |
| colorTextDescription  | Control the font color of text description.   | string | □rgba(0, 0, 0, 0.45)    |
| colorTextDisabled     | Control the color of text in disabled state.  | string | □rgba(0, 0, 0, 0.25)    |
| colorTextPlaceholder  | Control the color of placeholder text.  | string | gba(0, 0, 0, 0.25)      |
| colorTextQuaternary   | The fourth level of text color is the lightest text color, such as form input prompt text, disabled color text, etc.  | string | □rgba(0, 0, 0, 0.25)    |
| colorTextTertiary     | The third level of text color is generally used for descriptive text, such as form supplementary explanation text, list descriptive text, etc.  | string | □rgba(0, 0, 0, 0.45)    |
| colorWarning          | Used to represent the warning map token, such as Notification, Alert, etc. Alert or Control component(like Input) will use these map tokens.  | string | □ #faad14               |

| Token Name                 | Description   | Туре   | Default Value   |
|----------------------------|---|--------|---|
| colorWarningBorderHover    | The hover state border color of the warning state.  | string | □ #ffd666   |
| colorWarningOutline        | Control the outline color of input component in warning state.  | string | □rgba(255, 215, 5, 0.1)   |
| borderRadius               | Border radius of base components  | number | 6   |
| borderRadiusLG             | LG size border radius, used in some<br>large border radius components, such<br>as Card, Modal and other components.   | number | 8   |
| borderRadiusSM             | SM size border radius, used in small<br>size components, such as Button,<br>Input, Select and other input<br>components in small size   | number | 4   |
| controlHeight              | The height of the basic controls such as buttons and input boxes in Ant Design  | number | 32  |
| controlHeightLG            | LG component height   | number | 40  |
| controlHeightSM            | SM component height   | number | 24  |
| controlOutline             | Control the outline color of input component.   | string | □rgba(5, 145, 255, 0.1)   |
| controlOutlineWidth        | Control the outline width of input component.   | number | 2   |
| controlPaddingHorizontal   | Control the horizontal padding of an element.   | number | 12  |
| controlPaddingHorizontalSM | Control the horizontal padding of an element with a small-medium size.  | number | 8   |
| fontFamily                 | The font family of Ant Design prioritizes the default interface font of the system, and provides a set of alternative font libraries that are suitable for screen display to maintain the readability and readability of the font under different platforms and browsers, reflecting the friendly, stable and professional characteristics. | string | -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto, 'Helvetica Neue', Arial, 'Noto Sans', sans-serif, 'Apple Color Emoji', 'Segoe UI Emoji', 'Segoe UI Symbol', 'Noto Color Emoji' |
| fontSize                   | The most widely used font size in the design system, from which the text gradient will be derived.  | number | 14  |
| fontSizelcon               | Control the font size of operation icon in Select, Cascader, etc. Normally same as fontSizeSM.  | number | 12  |
| fontSizeLG                 | Large font size   | number | 16  |
| lineHeight                 | Line height of text.  | number | 1.5714285714285714  |
| lineHeightLG               | Line height of large text.  | number | 1.5   |

| Token Name         | Description  | Туре   | Default Value |
|--------------------|--|--------|---------------|
| lineType           | Border style of base components  | string | solid         |
| lineWidth          | Border width of base components  | number | 1             |
| motionDurationMid  | Motion speed, medium speed. Used for medium element animation interaction. | string | 0.2s          |
| motionDurationSlow | Motion speed, slow speed. Used for large element animation interaction.    | string | 0.3s          |
| paddingLG          | Control the large padding of the element.                                  | number | 24            |
| paddingSM          | Control the small padding of the element.                                  | number | 12            |
| paddingXS          | Control the extra small padding of the element.                            | number | 8             |
| paddingXXS         | Control the extra extra small padding of the element.                      | number | 4             |

#### FAQ

Why Input lose focus when change prefix/suffix/showCount

When Input dynamic add or remove <code>prefix/suffix/showCount</code> will make React recreate the dom structure and new input will be not focused. You can set an empty <code><span</code> /> element to keep the dom structure:

```
const suffix = condition ? <Icon type="smile" /> : <span />;
<Input suffix={suffix} />;
```

Why TextArea in control can make |value| exceed |value|?

When in control, component should show as what it set to avoid submit value not align with store value in Form.