

When To Use

- Used to select a single state from multiple options.
- The difference from Select is that Radio is visible to the user and can facilitate the comparison of choice, which means there shouldn't be too many of them.

// When use Radio.Group, recommended ✅

```
return (  
  <Radio.Group  
    value={value}  
    options={[  
      { value: 1, label: "A" },  
      { value: 2, label: "B"},  
      { value: 3, label: "C" },  
    ]}  
  />  
);
```

// No recommended 🙅

```
return (  
  <Radio.Group value={value}>  
    <Radio value={1}>A</Radio>  
    <Radio value={2}>B</Radio>  
    <Radio value={3}>C</Radio>  
  </Radio.Group>  
);
```

Examples

Basic

```
import React from 'react';  
import { Radio } from 'antd';  
  
const App: React.FC = () => <Radio>Radio</Radio>;  
  
export default App;
```

disabled

```
import React, { useState } from 'react';  
import { Button, Radio } from 'antd';  
  
const App: React.FC = () => {  
  const [disabled, setDisabled] = useState(true);
```

```

const toggleDisabled = () => {
  setDisabled(!disabled);
};

return (
  <>
    <Radio defaultChecked={false} disabled={disabled}>
      Disabled
    </Radio>
    <Radio defaultChecked disabled={disabled}>
      Disabled
    </Radio>
    <br />
    <Button type="primary" onClick={toggleDisabled} style={{ marginTop:
16 }}>
      Toggle disabled
    </Button>
  </>
);
};

export default App;

```

Radio Group

```

import React, { useState } from 'react';
import {
  BarChartOutlined,
  DotChartOutlined,
  LineChartOutlined,
  PieChartOutlined,
} from '@ant-design/icons';
import type { RadioChangeEvent } from 'antd';
import { Flex, Radio } from 'antd';

const App: React.FC = () => {
  const [value, setValue] = useState(1);

  const onChange = (e: RadioChangeEvent) => {
    setValue(e.target.value);
  };

  return (
    <Radio.Group
      onChange={onChange}

```

```

value={value}
options={[
  {
    value: 1,
    label: (
      <Flex gap="small" justify="center" align="center" vertical>
        <LineChartOutlined style={{ fontSize: 18 }} />
        LineChart
      </Flex>
    ),
  },
  {
    value: 2,
    label: (
      <Flex gap="small" justify="center" align="center" vertical>
        <DotChartOutlined style={{ fontSize: 18 }} />
        DotChart
      </Flex>
    ),
  },
  {
    value: 3,
    label: (
      <Flex gap="small" justify="center" align="center" vertical>
        <BarChartOutlined style={{ fontSize: 18 }} />
        BarChart
      </Flex>
    ),
  },
  {
    value: 4,
    label: (
      <Flex gap="small" justify="center" align="center" vertical>
        <PieChartOutlined style={{ fontSize: 18 }} />
        PieChart
      </Flex>
    ),
  },
]}
/>
);
};

export default App;

```

Vertical Radio.Group

```

import React, { useState } from 'react';
import type { RadioChangeEvent } from 'antd';
import { Input, Radio } from 'antd';

const style: React.CSSProperties = {
  display: 'flex',
  flexDirection: 'column',
  gap: 8,
};

const App: React.FC = () => {
  const [value, setValue] = useState(1);

  const onChange = (e: RadioChangeEvent) => {
    setValue(e.target.value);
  };

  return (
    <Radio.Group
      style={style}
      onChange={onChange}
      value={value}
      options={[
        { value: 1, label: 'Option A' },
        { value: 2, label: 'Option B' },
        { value: 3, label: 'Option C' },
        {
          value: 4,
          label: (
            <>
              More...
              {value === 4 && (
                <Input
                  variant="filled"
                  placeholder="please input"
                  style={{ width: 120, marginInlineStart: 12 }}
                />
              )}
            </>
          ),
        },
      ]}
    />
  );
};

```

```
export default App;
```

Block Radio.Group

v5.21.0

```
import React from 'react';
import { Flex, Radio } from 'antd';
import type { CheckboxGroupProps } from 'antd/es/checkbox';

const options: CheckboxGroupProps<string>['options'] = [
  { label: 'Apple', value: 'Apple' },
  { label: 'Pear', value: 'Pear' },
  { label: 'Orange', value: 'Orange' },
];

const App: React.FC = () => (
  <Flex vertical gap="middle">
    <Radio.Group block options={options} defaultValue="Apple" />
    <Radio.Group
      block
      options={options}
      defaultValue="Apple"
      optionType="button"
      buttonStyle="solid"
    />
    <Radio.Group block options={options} defaultValue="Pear"
optionType="button" />
  </Flex>
);

export default App;
```

Radio.Group group - optional

```
import React, { useState } from 'react';
import type { RadioChangeEvent } from 'antd';
import { Radio } from 'antd';
import type { CheckboxGroupProps } from 'antd/es/checkbox';

const plainOptions: CheckboxGroupProps<string>['options'] = ['Apple',
'Pear', 'Orange'];

const options: CheckboxGroupProps<string>['options'] = [
  { label: 'Apple', value: 'Apple' },
```

```

    { label: 'Pear', value: 'Pear' },
    { label: 'Orange', value: 'Orange', title: 'Orange' },
  ];

const optionsWithDisabled: CheckboxGroupProps<string>['options'] = [
  { label: 'Apple', value: 'Apple' },
  { label: 'Pear', value: 'Pear' },
  { label: 'Orange', value: 'Orange', disabled: true },
];

const App: React.FC = () => {
  const [value1, setValue1] = useState('Apple');
  const [value2, setValue2] = useState('Apple');
  const [value3, setValue3] = useState('Apple');
  const [value4, setValue4] = useState('Apple');

  const onChange1 = ({ target: { value } }: RadioChangeEvent) => {
    console.log('radio1 checked', value);
    setValue1(value);
  };

  const onChange2 = ({ target: { value } }: RadioChangeEvent) => {
    console.log('radio2 checked', value);
    setValue2(value);
  };

  const onChange3 = ({ target: { value } }: RadioChangeEvent) => {
    console.log('radio3 checked', value);
    setValue3(value);
  };

  const onChange4 = ({ target: { value } }: RadioChangeEvent) => {
    console.log('radio4 checked', value);
    setValue4(value);
  };

  return (
    <>
      <Radio.Group options={plainOptions} onChange={onChange1} value=
{value1} />
      <br />
      <Radio.Group options={optionsWithDisabled} onChange={onChange2}
value={value2} />
      <br />
      <br />
      <Radio.Group options={options} onChange={onChange3} value={value3}

```

```

optionType="button" />
    <br />
    <br />
    <Radio.Group
      options={optionsWithDisabled}
      onChange={onChange4}
      value={value4}
      optionType="button"
      buttonStyle="solid"
    />
  </>
);
};

export default App;

```

radio style

```

import React from 'react';
import type { RadioChangeEvent } from 'antd';
import { Flex, Radio } from 'antd';

const onChange = (e: RadioChangeEvent) => {
  console.log(`radio checked:${e.target.value}`);
};

const App: React.FC = () => (
  <Flex vertical gap="middle">
    <Radio.Group onChange={onChange} defaultValue="a">
      <Radio.Button value="a">Hangzhou</Radio.Button>
      <Radio.Button value="b">Shanghai</Radio.Button>
      <Radio.Button value="c">Beijing</Radio.Button>
      <Radio.Button value="d">Chengdu</Radio.Button>
    </Radio.Group>
    <Radio.Group onChange={onChange} defaultValue="a">
      <Radio.Button value="a">Hangzhou</Radio.Button>
      <Radio.Button value="b" disabled>
        Shanghai
      </Radio.Button>
      <Radio.Button value="c">Beijing</Radio.Button>
      <Radio.Button value="d">Chengdu</Radio.Button>
    </Radio.Group>
    <Radio.Group disabled onChange={onChange} defaultValue="a">
      <Radio.Button value="a">Hangzhou</Radio.Button>
      <Radio.Button value="b">Shanghai</Radio.Button>
      <Radio.Button value="c">Beijing</Radio.Button>
    </Radio.Group>
  </Flex>
);

```

```

        <Radio.Button value="d">Chengdu</Radio.Button>
      </Radio.Group>
    </Flex>
  );

  export default App;

```

Radio.Group with name

```

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

const App: React.FC = () => (
  <Radio.Group
    name="radiogroup"
    defaultValue={1}
    options={[
      { value: 1, label: 'A' },
      { value: 2, label: 'B' },
      { value: 3, label: 'C' },
      { value: 4, label: 'D' },
    ]}
  />
);

export default App;

```

Size

```

import React from 'react';
import { Flex, Radio } from 'antd';

const App: React.FC = () => (
  <Flex vertical gap="middle">
    <Radio.Group defaultValue="a" size="large">
      <Radio.Button value="a">Hangzhou</Radio.Button>
      <Radio.Button value="b">Shanghai</Radio.Button>
      <Radio.Button value="c">Beijing</Radio.Button>
      <Radio.Button value="d">Chengdu</Radio.Button>
    </Radio.Group>
    <Radio.Group defaultValue="a">
      <Radio.Button value="a">Hangzhou</Radio.Button>
      <Radio.Button value="b">Shanghai</Radio.Button>
      <Radio.Button value="c">Beijing</Radio.Button>
      <Radio.Button value="d">Chengdu</Radio.Button>
    </Radio.Group>
  </Flex>
);

```



```

    </Radio.Group>
    <Radio.Group defaultValue="a" size="small">
      <Radio.Button value="a">Hangzhou</Radio.Button>
      <Radio.Button value="b">Shanghai</Radio.Button>
      <Radio.Button value="c">Beijing</Radio.Button>
      <Radio.Button value="d">Chengdu</Radio.Button>
    </Radio.Group>
  </Flex>
);

export default App;

```

Solid radio button

```

import React from 'react';
import { Flex, Radio } from 'antd';

const App: React.FC = () => (
  <Flex vertical gap="middle">
    <Radio.Group defaultValue="a" buttonStyle="solid">
      <Radio.Button value="a">Hangzhou</Radio.Button>
      <Radio.Button value="b">Shanghai</Radio.Button>
      <Radio.Button value="c">Beijing</Radio.Button>
      <Radio.Button value="d">Chengdu</Radio.Button>
    </Radio.Group>
    <Radio.Group defaultValue="c" buttonStyle="solid">
      <Radio.Button value="a">Hangzhou</Radio.Button>
      <Radio.Button value="b" disabled>
        Shanghai
      </Radio.Button>
      <Radio.Button value="c">Beijing</Radio.Button>
      <Radio.Button value="d">Chengdu</Radio.Button>
    </Radio.Group>
  </Flex>
);

export default App;

```

Badge style

Debug

```

import React from 'react';
import { Badge, Radio } from 'antd';

const App: React.FC = () => (

```

```

    <Radio.Group buttonStyle="solid">
      <Badge count={1}>
        <Radio.Button value={1}>Click Me</Radio.Button>
      </Badge>
      <Badge count={2}>
        <Radio.Button value={2}>Not Me</Radio.Button>
      </Badge>
    </Radio.Group>
  );

  export default App;

```

Wireframe

Debug

```

import React from 'react';
import { ConfigProvider, Radio } from 'antd';
import type { CheckboxGroupProps } from 'antd/es/checkbox';

const options: CheckboxGroupProps<string | number>['options'] = [
  { value: 1, label: 'A' },
  { value: 2, label: 'B' },
  { value: 3, label: 'C' },
  { value: 4, label: 'D' },
];

const App: React.FC = () => (
  <ConfigProvider theme={{ token: { wireframe: true } }}>
    <Radio.Group value={1} options={options} />
    <br />
    <Radio.Group value={1} options={options} disabled />
  </ConfigProvider>
);

export default App;

```

Component Token

Debug

```

import React from 'react';
import { ConfigProvider, Radio, Space } from 'antd';

const App: React.FC = () => (
  <ConfigProvider

```

```

theme={{
  components: {
    Radio: {
      radioSize: 20,
      dotSize: 10,
      dotColorDisabled: 'grey',
      buttonBg: '#f6ffed',
      buttonCheckedBg: '#d9f7be',
      buttonColor: '#faad14',
      buttonPaddingInline: 20,
      buttonCheckedBgDisabled: '#fffbe6',
      buttonCheckedColorDisabled: '#ffe58f',
      buttonSolidCheckedColor: '#ffa39e',
      wrapperMarginInlineEnd: 20,
    },
  },
}}
>
<Space direction="vertical">
  <Radio checked>Test</Radio>
  <Radio checked disabled>
    Disabled
  </Radio>
  <Radio.Group defaultValue="a">
    <Radio.Button value="a">Hangzhou</Radio.Button>
    <Radio.Button value="b">Shanghai</Radio.Button>
    <Radio.Button value="c">Beijing</Radio.Button>
    <Radio.Button value="d">Chengdu</Radio.Button>
  </Radio.Group>
  <Radio.Group defaultValue="a" disabled>
    <Radio.Button value="a">Hangzhou</Radio.Button>
    <Radio.Button value="b">Shanghai</Radio.Button>
    <Radio.Button value="c">Beijing</Radio.Button>
    <Radio.Button value="d">Chengdu</Radio.Button>
  </Radio.Group>
  <Radio.Group defaultValue="a" buttonStyle="solid">
    <Radio.Button value="a">Hangzhou</Radio.Button>
    <Radio.Button value="b">Shanghai</Radio.Button>
    <Radio.Button value="c">Beijing</Radio.Button>
    <Radio.Button value="d">Chengdu</Radio.Button>
  </Radio.Group>
</Space>
</ConfigProvider>
);

export default App;

```

Upload Debug

Debug

```
import React from 'react';
import { Checkbox, Radio, Space, Upload } from 'antd';

const App: React.FC = () => (
  <Space>
    <Upload>
      <Radio>Radio</Radio>
    </Upload>
    <Upload>
      <Checkbox>Checkbox</Checkbox>
    </Upload>
  </Space>
);

export default App;
```

API

Common props ref: [Common props](#)

Radio/Radio.Button

Property	Description	Type	Default
autoFocus	Whether get focus when component mounted	boolean	false
checked	Specifies whether the radio is selected	boolean	false
defaultChecked	Specifies the initial state: whether or not the radio is selected	boolean	false
disabled	Disable radio	boolean	false
value	According to value for comparison, to determine whether the selected	any	-

RadioGroup

Radio group can wrap a group of `Radio` .

Property	Description	Type	Default	Version
buttonStyle	The style type of radio button	outline solid	outline	

defaultValue	Default selected value	any	-	
disabled	Disable all radio buttons	boolean	false	
name	The name property of all <code>input[type="radio"]</code> children. If not set, it will fallback to a randomly generated name	string	-	
options	Set children optional	string[] number[] Array< CheckboxOptionType >	-	
optionType	Set Radio optionType	default button	default	4.4.0
size	The size of radio button style	large middle small	-	
value	Used for setting the currently selected value	any	-	
block	Option to fit RadioGroup width to its parent width	boolean	false	5.21.0
onChange	The callback function that is triggered when the state changes	function(e:Event)	-	

CheckboxOptionType

Property	Description	Type	Default	Version
label	The text used to display as the Radio option	string	-	4.4.0
value	The value associated with the Radio option	string number boolean	-	4.4.0
style	The style to apply to the Radio option	React.CSSProperties	-	4.4.0
disabled	Specifies whether the Radio option is disabled	boolean	false	4.4.0

title	Adds the Title attribute value	string	-	4.4.0
id	Adds the Radio Id attribute value	string	-	4.4.0
onChange	Triggered when the value of the Radio Group changes	(e: CheckboxChangeEvent) => void;	-	4.4.0
required	Specifies whether the Radio option is required	boolean	false	4.4.0

Methods

Radio

Name	Description
blur()	Remove focus
focus()	Get focus

Design Token