

何时使用 {#when-to-use}

- 用于创建一个实体或收集信息。
- 需要对输入的数据类型进行校验时。

代码演示

基本使用

```
import React from 'react';
import type { FormProps } from 'antd';
import { Button, Checkbox, Form, Input } from 'antd';

type FieldType = {
  username?: string;
  password?: string;
  remember?: string;
};

const onFinish: FormProps<FieldType>['onFinish'] = (values) => {
  console.log('Success:', values);
};

const onFinishFailed: FormProps<FieldType>['onFinishFailed'] = (errorInfo)
=> {
  console.log('Failed:', errorInfo);
};

const App: React.FC = () => (
  <Form
    name="basic"
    labelCol={{ span: 8 }}
    wrapperCol={{ span: 16 }}
    style={{ maxWidth: 600 }}
    initialValues={{ remember: true }}
    onFinish={onFinish}
    onFinishFailed={onFinishFailed}
    autoComplete="off"
  >
    <Form.Item<FieldType>
      label="Username"
      name="username"
      rules={[{ required: true, message: 'Please input your username!' }]}
    >
      <Input />
    </Form.Item>
```

```

    <Form.Item<FieldType>
      label="Password"
      name="password"
      rules={[{ required: true, message: 'Please input your password!' }]}
    >
      <Input.Password />
    </Form.Item>

    <Form.Item<FieldType> name="remember" valuePropName="checked" label=
{null}>
      <Checkbox>Remember me</Checkbox>
    </Form.Item>

    <Form.Item label={null}>
      <Button type="primary" htmlType="submit">
        Submit
      </Button>
    </Form.Item>
  </Form>
);

export default App;

```

表单方法调用

```

import React from 'react';
import { Button, Form, Input, Select, Space } from 'antd';

const { Option } = Select;

const layout = {
  labelCol: { span: 8 },
  wrapperCol: { span: 16 },
};

const tailLayout = {
  wrapperCol: { offset: 8, span: 16 },
};

const App: React.FC = () => {
  const [form] = Form.useForm();

  const onGenderChange = (value: string) => {
    switch (value) {
      case 'male':
        form.setFieldsValue({ note: 'Hi, man!' });
    }
  };

```

```

        break;
    case 'female':
        form.setFieldsValue({ note: 'Hi, lady!' });
        break;
    case 'other':
        form.setFieldsValue({ note: 'Hi there!' });
        break;
    default:
    }
};

const onFinish = (values: any) => {
    console.log(values);
};

const onReset = () => {
    form.resetFields();
};

const onFill = () => {
    form.setFieldsValue({ note: 'Hello world!', gender: 'male' });
};

return (
    <Form
        {...layout}
        form={form}
        name="control-hooks"
        onFinish={onFinish}
        style={{ maxWidth: 600 }}
    >
        <Form.Item name="note" label="Note" rules={[{ required: true }]}>
            <Input />
        </Form.Item>
        <Form.Item name="gender" label="Gender" rules={[{ required: true }]}>
            <Select
                placeholder="Select a option and change input text above"
                onChange={onGenderChange}
                allowClear
            >
                <Option value="male">male</Option>
                <Option value="female">female</Option>
                <Option value="other">other</Option>
            </Select>
        </Form.Item>
        <Form.Item

```

```

        noStyle
        shouldUpdate={(prevValues, currentValues) => prevValues.gender !==
currentValues.gender}
      >
        ({ { getFieldValue } } =>
          getFieldValue('gender') === 'other' ? (
            <Form.Item name="customizeGender" label="Customize Gender"
rules={[{ required: true }]}>
              <Input />
            </Form.Item>
          ) : null
        )
      </Form.Item>
      <Form.Item {...tailLayout}>
        <Space>
          <Button type="primary" htmlType="submit">
            Submit
          </Button>
          <Button htmlType="button" onClick={onReset}>
            Reset
          </Button>
          <Button type="link" htmlType="button" onClick={onFill}>
            Fill form
          </Button>
        </Space>
      </Form.Item>
    </Form>
  );
};

export default App;

```

表单布局

```

import React, { useState } from 'react';
import { Button, Form, Input, Radio } from 'antd';

type LayoutType = Parameters<typeof Form>[0]['layout'];

const App: React.FC = () => {
  const [form] = Form.useForm();
  const [formLayout, setFormLayout] = useState<LayoutType>('horizontal');

  const onFormLayoutChange = ({ layout }: { layout: LayoutType }) => {
    setFormLayout(layout);
  };
};

```

```

return (
  <Form
    layout={formLayout}
    form={form}
    initialValues={{ layout: formLayout }}
    onValuesChange={onFormLayoutChange}
    style={{ maxWidth: formLayout === 'inline' ? 'none' : 600 }}
  >
    <Form.Item label="Form Layout" name="layout">
      <Radio.Group value={formLayout}>
        <Radio.Button value="horizontal">Horizontal</Radio.Button>
        <Radio.Button value="vertical">Vertical</Radio.Button>
        <Radio.Button value="inline">Inline</Radio.Button>
      </Radio.Group>
    </Form.Item>
    <Form.Item label="Field A">
      <Input placeholder="input placeholder" />
    </Form.Item>
    <Form.Item label="Field B">
      <Input placeholder="input placeholder" />
    </Form.Item>
    <Form.Item>
      <Button type="primary">Submit</Button>
    </Form.Item>
  </Form>
);
};

export default App;

```

表单混合布局

```

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

const App: React.FC = () => (
  <>
    <Form
      name="layout-multiple-horizontal"
      layout="horizontal"
      labelCol={{ span: 4 }}
      wrapperCol={{ span: 20 }}
    >
      <Form.Item label="horizontal" name="horizontal" rules={[{ required:
true }]}>

```

```

        <Input />
      </Form.Item>
      <Form.Item
        layout="vertical"
        label="vertical"
        name="vertical"
        rules={[{ required: true }]}
        labelCol={{ span: 24 }}
        wrapperCol={{ span: 24 }}
      >
        <Input />
      </Form.Item>
    </Form>
    <br />
    <Form
      name="layout-multiple-vertical"
      layout="vertical"
      labelCol={{ span: 4 }}
      wrapperCol={{ span: 20 }}
    >
      <Form.Item label="vertical" name="vertical" rules={[{ required: true
    ]}]>
        <Input />
      </Form.Item>
      <Form.Item
        layout="horizontal"
        label="horizontal"
        name="horizontal"
        rules={[{ required: true }]}
      >
        <Input />
      </Form.Item>
    </Form>
  </>
);

export default App;

```

表单禁用

```

import React, { useState } from 'react';
import { PlusOutlined } from '@ant-design/icons';
import {
  Button,
  Cascader,
  Checkbox,

```

```

    ColorPicker,
    DatePicker,
    Form,
    Input,
    InputNumber,
    Radio,
    Rate,
    Select,
    Slider,
    Switch,
    TreeSelect,
    Upload,
  } from 'antd';

const { RangePicker } = DatePicker;
const { TextArea } = Input;

const normFile = (e: any) => {
  if (Array.isArray(e)) {
    return e;
  }
  return e?.fileList;
};

const FormDisabledDemo: React.FC = () => {
  const [componentDisabled, setComponentDisabled] = useState<boolean>(true);

  return (
    <>
      <Checkbox
        checked={componentDisabled}
        onChange={(e) => setComponentDisabled(e.target.checked)}
      >
        Form disabled
      </Checkbox>
      <Form
        labelCol={{ span: 4 }}
        wrapperCol={{ span: 14 }}
        layout="horizontal"
        disabled={componentDisabled}
        style={{ maxWidth: 600 }}
      >
        <Form.Item label="Checkbox" name="disabled"
valuePropName="checked">
          <Checkbox>Checkbox</Checkbox>

```

```
</Form.Item>
<Form.Item label="Radio">
  <Radio.Group>
    <Radio value="apple"> Apple </Radio>
    <Radio value="pear"> Pear </Radio>
  </Radio.Group>
</Form.Item>
<Form.Item label="Input">
  <Input />
</Form.Item>
<Form.Item label="Select">
  <Select>
    <Select.Option value="demo">Demo</Select.Option>
  </Select>
</Form.Item>
<Form.Item label="TreeSelect">
  <TreeSelect
    treeData=[
      { title: 'Light', value: 'light', children: [{ title:
'Bamboo', value: 'bamboo' }] },
    ]
  />
</Form.Item>
<Form.Item label="Cascader">
  <Cascader
    options=[
      {
        value: 'zhejiang',
        label: 'Zhejiang',
        children: [
          {
            value: 'hangzhou',
            label: 'Hangzhou',
          },
        ],
      },
    ],
  />
</Form.Item>
<Form.Item label="DatePicker">
  <DatePicker />
</Form.Item>
<Form.Item label="RangePicker">
  <RangePicker />
</Form.Item>
<Form.Item label="InputNumber">
```



```

        <InputNumber />
      </Form.Item>
      <Form.Item label="TextArea">
        <TextArea rows={4} />
      </Form.Item>
      <Form.Item label="Switch" valuePropName="checked">
        <Switch />
      </Form.Item>
      <Form.Item label="Upload" valuePropName="fileList"
        getValueFromEvent={normFile}>
        <Upload action="/upload.do" listType="picture-card">
          <button
            style={{ color: 'inherit', cursor: 'inherit', border: 0,
background: 'none' }}
            type="button"
          >
            <PlusOutlined />
            <div style={{ marginTop: 8 }}>Upload</div>
          </button>
        </Upload>
      </Form.Item>
      <Form.Item label="Button">
        <Button>Button</Button>
      </Form.Item>
      <Form.Item label="Slider">
        <Slider />
      </Form.Item>
      <Form.Item label="ColorPicker">
        <ColorPicker />
      </Form.Item>
      <Form.Item label="Rate">
        <Rate />
      </Form.Item>
    </Form>
  </>
);
};

export default () => <FormDisabledDemo />;

```

表单变体

v5.13.0

```

import React from 'react';
import {

```

```

    Button,
    Cascader,
    DatePicker,
    Form,
    Input,
    InputNumber,
    Mentions,
    Segmented,
    Select,
    TreeSelect,
  } from 'antd';

const { RangePicker } = DatePicker;

const formItemLayout = {
  labelCol: {
    xs: { span: 24 },
    sm: { span: 6 },
  },
  wrapperCol: {
    xs: { span: 24 },
    sm: { span: 14 },
  },
};

const App: React.FC = () => {
  const [form] = Form.useForm();
  const variant = Form.useWatch('variant', form);
  return (
    <Form
      {...formItemLayout}
      form={form}
      variant={variant || 'filled'}
      style={{ maxWidth: 600 }}
      initialValues={{ variant: 'filled' }}
    >
      <Form.Item label="Form variant" name="variant">
        <Segmented options={['outlined', 'filled', 'borderless',
'underlined']} />
      </Form.Item>

      <Form.Item label="Input" name="Input" rules={[{ required: true,
message: 'Please input!' }]}>
        <Input />
      </Form.Item>
    </Form>
  );
};

```

```
<Form.Item
  label="InputNumber"
  name="InputNumber"
  rules={[{ required: true, message: 'Please input!' }]}
>
  <InputNumber style={{ width: '100%' }} />
</Form.Item>

<Form.Item
  label="TextArea"
  name="TextArea"
  rules={[{ required: true, message: 'Please input!' }]}
>
  <Input.TextArea />
</Form.Item>

<Form.Item
  label="Mentions"
  name="Mentions"
  rules={[{ required: true, message: 'Please input!' }]}
>
  <Mentions />
</Form.Item>

<Form.Item
  label="Select"
  name="Select"
  rules={[{ required: true, message: 'Please input!' }]}
>
  <Select />
</Form.Item>

<Form.Item
  label="Cascader"
  name="Cascader"
  rules={[{ required: true, message: 'Please input!' }]}
>
  <Cascader />
</Form.Item>

<Form.Item
  label="TreeSelect"
  name="TreeSelect"
  rules={[{ required: true, message: 'Please input!' }]}
>
  <TreeSelect />
```

```

    </Form.Item>

    <Form.Item
      label="DatePicker"
      name="DatePicker"
      rules={[{ required: true, message: 'Please input!' }]}
    >
      <DatePicker />
    </Form.Item>

    <Form.Item
      label="RangePicker"
      name="RangePicker"
      rules={[{ required: true, message: 'Please input!' }]}
    >
      <RangePicker />
    </Form.Item>

    <Form.Item wrapperCol={{ offset: 6, span: 16 }}>
      <Button type="primary" htmlType="submit">
        Submit
      </Button>
    </Form.Item>
  </Form>
);
};

export default App;

```

必选样式

```

import React, { useState } from 'react';
import { InfoCircleOutlined } from '@ant-design/icons';
import { Button, Form, Input, Radio, Tag } from 'antd';

type RequiredMark = boolean | 'optional' | 'customize';

const customizeRequiredMark = (label: React.ReactNode, { required }: {
  required: boolean }) => (
  <
    {required ? <Tag color="error">Required</Tag> : <Tag
color="warning">optional</Tag>}
    {label}
  </>
);

```

```

const App: React.FC = () => {
  const [form] = Form.useForm();
  const [requiredMark, setRequiredMarkType] = useState<RequiredMark>
('optional');

  const onRequiredTypeChange = ({ requiredMarkValue }: { requiredMarkValue:
RequiredMark }) => {
    setRequiredMarkType(requiredMarkValue);
  };

  return (
    <Form
      form={form}
      layout="vertical"
      initialValues={{ requiredMarkValue: requiredMark }}
      onValuesChange={onRequiredTypeChange}
      requiredMark={requiredMark === 'customize' ? customizeRequiredMark :
requiredMark}
    >
      <Form.Item label="Required Mark" name="requiredMarkValue">
        <Radio.Group>
          <Radio.Button value>Default</Radio.Button>
          <Radio.Button value="optional">Optional</Radio.Button>
          <Radio.Button value={false}>Hidden</Radio.Button>
          <Radio.Button value="customize">Customize</Radio.Button>
        </Radio.Group>
      </Form.Item>
      <Form.Item label="Field A" required tooltip="This is a required
field">
        <Input placeholder="input placeholder" />
      </Form.Item>
      <Form.Item
        label="Field B"
        tooltip={{ title: 'Tooltip with customize icon', icon:
<InfoCircleOutlined /> }}
      >
        <Input placeholder="input placeholder" />
      </Form.Item>
      <Form.Item>
        <Button type="primary">Submit</Button>
      </Form.Item>
    </Form>
  );
};

export default App;

```

表单尺寸

```
import React, { useState } from 'react';
import {
  Button,
  Cascader,
  DatePicker,
  Form,
  Input,
  InputNumber,
  Radio,
  Select,
  Switch,
  TreeSelect,
} from 'antd';

type SizeType = Parameters<typeof Form>[0]['size'];

const App: React.FC = () => {
  const [componentSize, setComponentSize] = useState<SizeType | 'default'>
('default');

  const onFormLayoutChange = ({ size }: { size: SizeType }) => {
    setComponentSize(size);
  };

  return (
    <Form
      labelCol={{ span: 4 }}
      wrapperCol={{ span: 14 }}
      layout="horizontal"
      initialValues={{ size: componentSize }}
      onValuesChange={onFormLayoutChange}
      size={componentSize as SizeType}
      style={{ maxWidth: 600 }}
    >
      <Form.Item label="Form Size" name="size">
        <Radio.Group>
          <Radio.Button value="small">Small</Radio.Button>
          <Radio.Button value="default">Default</Radio.Button>
          <Radio.Button value="large">Large</Radio.Button>
        </Radio.Group>
      </Form.Item>
      <Form.Item label="Input">
        <Input />
      </Form.Item>
    </Form>
  );
};
```

```

    <Form.Item label="Select">
      <Select>
        <Select.Option value="demo">Demo</Select.Option>
      </Select>
    </Form.Item>
    <Form.Item label="TreeSelect">
      <TreeSelect
        treeData=[
          { title: 'Light', value: 'light', children: [{ title: 'Bamboo',
value: 'bamboo' }] },
        ]
      />
    </Form.Item>
    <Form.Item label="Cascader">
      <Cascader
        options=[
          {
            value: 'zhejiang',
            label: 'Zhejiang',
            children: [{ value: 'hangzhou', label: 'Hangzhou' }],
          },
        ]
      />
    </Form.Item>
    <Form.Item label="DatePicker">
      <DatePicker />
    </Form.Item>
    <Form.Item label="InputNumber">
      <InputNumber />
    </Form.Item>
    <Form.Item label="Switch" valuePropName="checked">
      <Switch />
    </Form.Item>
    <Form.Item label="Button">
      <Button>Button</Button>
    </Form.Item>
  </Form>
);
};

export default App;

```

表单标签可换行

```

import React from 'react';
import { Button, Form, Input } from 'antd';

```

```

const App: React.FC = () => (
  <Form
    name="wrap"
    labelCol={{ flex: '110px' }}
    labelAlign="left"
    labelWrap
    wrapperCol={{ flex: 1 }}
    colon={false}
    style={{ maxWidth: 600 }}
  >
    <Form.Item label="Normal label" name="username" rules={[{ required:
true }]}>
      <Input />
    </Form.Item>

    <Form.Item label="A super long label text" name="password" rules={[{
required: true }]}>
      <Input />
    </Form.Item>

    <Form.Item label=" ">
      <Button type="primary" htmlType="submit">
        Submit
      </Button>
    </Form.Item>
  </Form>
);

export default App;

```

非阻塞校验

```

import React from 'react';
import { Button, Form, Input, message, Space } from 'antd';

const App: React.FC = () => {
  const [form] = Form.useForm();

  const onFinish = () => {
    message.success('Submit success!');
  };

  const onFinishFailed = () => {
    message.error('Submit failed!');
  };

```



```

const onFill = () => {
  form.setFieldsValue({
    url: 'https://taobao.com/',
  });
};

return (
  <Form
    form={form}
    layout="vertical"
    onFinish={onFinish}
    onFinishFailed={onFinishFailed}
    autoComplete="off"
  >
    <Form.Item
      name="url"
      label="URL"
      rules={[{ required: true }, { type: 'url', warningOnly: true }, {
type: 'string', min: 6 }]}
    >
      <Input placeholder="input placeholder" />
    </Form.Item>
    <Form.Item>
      <Space>
        <Button type="primary" htmlType="submit">
          Submit
        </Button>
        <Button htmlType="button" onClick={onFill}>
          Fill
        </Button>
      </Space>
    </Form.Item>
  </Form>
);
};

export default App;

```

字段监听 Hooks

```

import React from 'react';
import { Form, Input, InputNumber, Typography } from 'antd';

const Demo: React.FC = () => {
  const [form] = Form.useForm<{ name: string; age: number }>();

```

```

const nameValue = Form.useWatch('name', form);
// The selector is static and does not support closures.
const customValue = Form.useWatch((values) => `name: ${values.name} ||
'}`, form);

return (
  <>
    <Form form={form} layout="vertical" autoComplete="off">
      <Form.Item name="name" label="Name (Watch to trigger rerender)">
        <Input />
      </Form.Item>
      <Form.Item name="age" label="Age (Not Watch)">
        <InputNumber />
      </Form.Item>
    </Form>

    <Typography>
      <pre>Name Value: {nameValue}</pre>
      <pre>Custom Value: {customValue}</pre>
    </Typography>
  </>
);
};

export default Demo;

```

校验时机

```

import React from 'react';
import { Alert, Form, Input } from 'antd';

const App: React.FC = () => (
  <Form name="trigger" style={{ maxWidth: 600 }} layout="vertical"
  autoComplete="off">
    <Alert message="Use 'max' rule, continue type chars to see it" />

    <Form.Item
      hasFeedback
      label="Field A"
      name="field_a"
      validateTrigger="onBlur"
      rules={[{ max: 3 }]}
    >
      <Input placeholder="Validate required onBlur" />
    </Form.Item>
  </Form>
);

```

```

    <Form.Item
      hasFeedback
      label="Field B"
      name="field_b"
      validateDebounce={1000}
      rules={[{ max: 3 }]}
    >
      <Input placeholder="Validate required debounce after 1s" />
    </Form.Item>

    <Form.Item
      hasFeedback
      label="Field C"
      name="field_c"
      validateFirst
      rules={[{ max: 6 }, { max: 3, message: 'Continue input to exceed 6
chars' }]}
    >
      <Input placeholder="Validate one by one" />
    </Form.Item>
  </Form>
);

export default App;

```

仅校验

```

import React from 'react';
import type { FormInstance } from 'antd';
import { Button, Form, Input, Space } from 'antd';

interface SubmitButtonProps {
  form: FormInstance;
}

const SubmitButton: React.FC<React.PropsWithChildren<SubmitButtonProps>> =
({ form, children }) => {
  const [submittable, setSubmittable] = React.useState<boolean>(false);

  // Watch all values
  const values = Form.useWatch([], form);

  React.useEffect(() => {
    form
      .validateFields({ validateOnly: true })
      .then(() => setSubmittable(true))
  });

```

```

        .catch(() => setSubmittable(false));
    }, [form, values]);

    return (
        <Button type="primary" htmlType="submit" disabled={!submittable}>
            {children}
        </Button>
    );
};

const App: React.FC = () => {
    const [form] = Form.useForm();
    return (
        <Form form={form} name="validateOnly" layout="vertical"
autoComplete="off">
            <Form.Item name="name" label="Name" rules={[{ required: true }]}>
                <Input />
            </Form.Item>
            <Form.Item name="age" label="Age" rules={[{ required: true }]}>
                <Input />
            </Form.Item>
            <Form.Item>
                <Space>
                    <SubmitButton form={form}>Submit</SubmitButton>
                    <Button htmlType="reset">Reset</Button>
                </Space>
            </Form.Item>
        </Form>
    );
};

export default App;

```

字段路径前缀

```

import React from 'react';
import { Button, Form, Input } from 'antd';
import type { FormItemProps } from 'antd';

const MyFormItemContext = React.createContext<(string | number)[]>([]);

interface MyFormItemGroupProps {
    prefix: string | number | (string | number)[];
}

function toArr(str: string | number | (string | number)[]): (string |

```

```

number)[] {
  return Array.isArray(str) ? str : [str];
}

const MyFormItemGroup:
React.FC<React.PropsWithChildren<MyFormItemGroupProps>> = ({
  prefix,
  children,
}) => {
  const prefixPath = React.useContext(MyFormItemContext);
  const concatPath = React.useMemo(() => [...prefixPath, ...toArr(prefix)],
[prefixPath, prefix]);

  return <MyFormItemContext.Provider value={concatPath}>{children}
</MyFormItemContext.Provider>;
};

const MyFormItem = ({ name, ...props }: FormItemProps) => {
  const prefixPath = React.useContext(MyFormItemContext);
  const concatName = name !== undefined ? [...prefixPath, ...toArr(name)] :
undefined;

  return <Form.Item name={concatName} {...props} />;
};

const App: React.FC = () => {
  const onFinish = (value: object) => {
    console.log(value);
  };

  return (
    <Form name="form_item_path" layout="vertical" onFinish={onFinish}>
      <MyFormItemGroup prefix={['user']}>
        <MyFormItemGroup prefix={['name']}>
          <MyFormItem name="firstName" label="First Name">
            <Input />
          </MyFormItem>
          <MyFormItem name="lastName" label="Last Name">
            <Input />
          </MyFormItem>
        </MyFormItemGroup>

        <MyFormItem name="age" label="Age">
          <Input />
        </MyFormItem>
      </MyFormItemGroup>
    </Form>
  );
};

```

```

        <Button type="primary" htmlType="submit">
          Submit
        </Button>
      </Form>
    );
  };

export default App;

```

动态增减表单项

```

import React from 'react';
import { MinusCircleOutlined, PlusOutlined } from '@ant-design/icons';
import { Button, Form, Input } from 'antd';

const formItemLayout = {
  labelCol: {
    xs: { span: 24 },
    sm: { span: 4 },
  },
  wrapperCol: {
    xs: { span: 24 },
    sm: { span: 20 },
  },
};

const formItemLayoutWithOutLabel = {
  wrapperCol: {
    xs: { span: 24, offset: 0 },
    sm: { span: 20, offset: 4 },
  },
};

const App: React.FC = () => {
  const onFinish = (values: any) => {
    console.log('Received values of form:', values);
  };

  return (
    <Form
      name="dynamic_form_item"
      {...formItemLayoutWithOutLabel}
      onFinish={onFinish}
      style={{ maxWidth: 600 }}
    >

```

```

<Form.List
  name="names"
  rules={[
    {
      validator: async (_, names) => {
        if (!names || names.length < 2) {
          return Promise.reject(new Error('At least 2 passengers'));
        }
      },
    },
  ]}
>
  {(fields, { add, remove }, { errors }) => (
    <>
      {fields.map((field, index) => (
        <Form.Item
          {...(index === 0 ? formItemLayout :
formItemLayoutWithOutLabel)}
          label={index === 0 ? 'Passengers' : ''}
          required={false}
          key={field.key}
        >
          <Form.Item
            {...field}
            validateTrigger={['onChange', 'onBlur']}
            rules={[
              {
                required: true,
                whitespace: true,
                message: "Please input passenger's name or delete
this field.",
              },
            ]}
            noStyle
          >
            <Input placeholder="passenger name" style={{ width: '60%'
}} />

          </Form.Item>
          {fields.length > 1 ? (
            <MinusCircleOutlined
              className="dynamic-delete-button"
              onClick={() => remove(field.name)}
            />
            ) : null}
        </Form.Item>
      )]}
    </>
  )}
)

```

```

    <Form.Item>
      <Button
        type="dashed"
        onClick={() => add()}
        style={{ width: '60%' }}
        icon={<PlusOutlined />}
      >
        Add field
      </Button>
      <Button
        type="dashed"
        onClick={() => {
          add('The head item', 0);
        }}
        style={{ width: '60%', marginTop: '20px' }}
        icon={<PlusOutlined />}
      >
        Add field at head
      </Button>
      <Form.ErrorList errors={errors} />
    </Form.Item>
  </>
)}
</Form.List>
<Form.Item>
  <Button type="primary" htmlType="submit">
    Submit
  </Button>
</Form.Item>
</Form>
);
};

export default App;

```

动态增减嵌套字段

```

import React from 'react';
import { MinusCircleOutlined, PlusOutlined } from '@ant-design/icons';
import { Button, Form, Input, Space } from 'antd';

const onFinish = (values: any) => {
  console.log('Received values of form:', values);
};

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

```



```

<Form
  name="dynamic_form_nest_item"
  onFinish={onFinish}
  style={{ maxWidth: 600 }}
  autoComplete="off"
>
  <Form.List name="users">
    {(fields, { add, remove }) => (
      <>
        {fields.map(({ key, name, ...restField }) => (
          <Space key={key} style={{ display: 'flex', marginBottom: 8 }}
align="baseline">
            <Form.Item
              {...restField}
              name={[name, 'first']}
              rules={[{ required: true, message: 'Missing first name' ]}}
            >
              <Input placeholder="First Name" />
            </Form.Item>
            <Form.Item
              {...restField}
              name={[name, 'last']}
              rules={[{ required: true, message: 'Missing last name' ]}}
            >
              <Input placeholder="Last Name" />
            </Form.Item>
            <MinusCircleOutlined onClick={() => remove(name)} />
          </Space>
        )}}
      <Form.Item>
        <Button type="dashed" onClick={() => add()} block icon=
{<PlusOutlined />}>
          Add field
        </Button>
      </Form.Item>
    </>
  )}
</Form.List>
<Form.Item>
  <Button type="primary" htmlType="submit">
    Submit
  </Button>
</Form.Item>
</Form>
);

```

```
export default App;
```

动态增减嵌套纯字段

Debug

```
import React from 'react';
import { MinusCircleOutlined, PlusOutlined } from '@ant-design/icons';
import { Button, Form, Input, Space } from 'antd';

const onFinish = (values: any) => {
  console.log('Received values of form:', values);
};

const App: React.FC = () => (
  <Form
    name="dynamic_form_no_style"
    onFinish={onFinish}
    style={{ maxWidth: 600 }}
    autoComplete="off"
  >
    <Form.Item label="Users">
      <Form.List name="users">
        {(fields, { add, remove }) => (
          <>
            {fields.map((field) => (
              <Space key={field.key} style={{ marginBottom: 16 }}>
                <Form.Item noStyle name={[field.name, 'lastName']} rules=
                {[{ required: true }]}>
                  <Input placeholder="Last Name" />
                </Form.Item>
                <Form.Item noStyle name={[field.name, 'firstName']} rules=
                {[{ required: true }]}>
                  <Input placeholder="First Name" />
                </Form.Item>
                <MinusCircleOutlined
                  onClick={() => {
                    remove(field.name);
                  }}
                />
              </Space>
            ))}
            <Form.Item>
              <Button type="dashed" onClick={() => add()} block icon=
              {<PlusOutlined />}>

```

```

        Add field
      </Button>
    </Form.Item>
  </>
)}
</Form.List>
</Form.Item>
<Form.Item>
  <Button type="primary" htmlType="submit">
    Submit
  </Button>
</Form.Item>
</Form>
);

export default App;

```

复杂的动态增减表单项

```

import React from 'react';
import { CloseOutlined } from '@ant-design/icons';
import { Button, Card, Form, Input, Space, Typography } from 'antd';

const App: React.FC = () => {
  const [form] = Form.useForm();

  return (
    <Form
      labelCol={{ span: 6 }}
      wrapperCol={{ span: 18 }}
      form={form}
      name="dynamic_form_complex"
      style={{ maxWidth: 600 }}
      autoComplete="off"
      initialValues={{ items: [{}] }}
    >
      <Form.List name="items">
        {(fields, { add, remove }) => (
          <div style={{ display: 'flex', rowGap: 16, flexDirection:
'column' }}>
            {fields.map((field) => (
              <Card
                size="small"
                title={`Item ${field.name + 1}`}
                key={field.key}
                extra={

```

```

        <CloseOutlined
          onClick={() => {
            remove(field.name);
          }}
        />
      }
    >
    <Form.Item label="Name" name={[field.name, 'name']}>
      <Input />
    </Form.Item>

    {/* Nest Form.List */}
    <Form.Item label="List">
      <Form.List name={[field.name, 'list']}>
        {(subFields, subOpt) => (
          <div style={{ display: 'flex', flexDirection:
'column', rowGap: 16 }}>
            {subFields.map((subField) => (
              <Space key={subField.key}>
                <Form.Item noStyle name={[subField.name,
'first']}>
                  <Input placeholder="first" />
                </Form.Item>
                <Form.Item noStyle name={[subField.name,
'second']}>
                  <Input placeholder="second" />
                </Form.Item>
                <CloseOutlined
                  onClick={() => {
                    subOpt.remove(subField.name);
                  }}
                />
              </Space>
            ))}
            <Button type="dashed" onClick={() => subOpt.add()}
block>
              + Add Sub Item
            </Button>
          </div>
        )}
      </Form.List>
    </Form.Item>
  </Card>
)}}
```

<Button type="dashed" onClick={() => add()} block>

```

        + Add Item
      </Button>
    </div>
  )}
</Form.List>

<Form.Item noStyle shouldUpdate>
  {() => (
    <Typography>
      <pre>{JSON.stringify(form.getFieldsValue(), null, 2)}</pre>
    </Typography>
  )}
</Form.Item>
</Form>
);
};

export default App;

```

嵌套结构与校验信息

```

import React from 'react';
import { Button, Form, Input, InputNumber } from 'antd';

const layout = {
  labelCol: { span: 8 },
  wrapperCol: { span: 16 },
};

const validateMessages = {
  required: '${label} is required!',
  types: {
    email: '${label} is not a valid email!',
    number: '${label} is not a valid number!',
  },
  number: {
    range: '${label} must be between ${min} and ${max}!',
  },
};

const onFinish = (values: any) => {
  console.log(values);
};

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

```

```

    {...layout}
    name="nest-messages"
    onFinish={onFinish}
    style={{ maxWidth: 600 }}
    validateMessages={validateMessages}
  >
    <Form.Item name={['user', 'name']} label="Name" rules={[{ required:
true }]}>
      <Input />
    </Form.Item>
    <Form.Item name={['user', 'email']} label="Email" rules={[{ type:
'email' }]}>
      <Input />
    </Form.Item>
    <Form.Item name={['user', 'age']} label="Age" rules={[{ type: 'number',
min: 0, max: 99 }]}>
      <InputNumber />
    </Form.Item>
    <Form.Item name={['user', 'website']} label="Website">
      <Input />
    </Form.Item>
    <Form.Item name={['user', 'introduction']} label="Introduction">
      <Input.TextArea />
    </Form.Item>
    <Form.Item label={null}>
      <Button type="primary" htmlType="submit">
        Submit
      </Button>
    </Form.Item>
  </Form>
);

export default App;

```

复杂一点的控件

```

import React from 'react';
import { Button, Form, Input, Select, Space, Tooltip, Typography } from
'antd';

const { Option } = Select;

const onFinish = (values: any) => {
  console.log('Received values of form: ', values);
};

```

```

const App: React.FC = () => (
  <Form
    name="complex-form"
    onFinish={onFinish}
    labelCol={{ span: 8 }}
    wrapperCol={{ span: 16 }}
    style={{ maxWidth: 600 }}
  >
    <Form.Item label="Username">
      <Space>
        <Form.Item
          name="username"
          noStyle
          rules={[{ required: true, message: 'Username is required' }]}
        >
          <Input style={{ width: 160 }} placeholder="Please input" />
        </Form.Item>
        <Tooltip title="Useful information">
          <Typography.Link href="#API">Need Help?</Typography.Link>
        </Tooltip>
      </Space>
    </Form.Item>
    <Form.Item label="Address">
      <Space.Compact>
        <Form.Item
          name={['address', 'province']}
          noStyle
          rules={[{ required: true, message: 'Province is required' }]}
        >
          <Select placeholder="Select province">
            <Option value="Zhejiang">Zhejiang</Option>
            <Option value="Jiangsu">Jiangsu</Option>
          </Select>
        </Form.Item>
        <Form.Item
          name={['address', 'street']}
          noStyle
          rules={[{ required: true, message: 'Street is required' }]}
        >
          <Input style={{ width: '50%' }} placeholder="Input street" />
        </Form.Item>
      </Space.Compact>
    </Form.Item>
    <Form.Item label="BirthDate" style={{ marginBottom: 0 }}>
      <Form.Item
        name="year"

```

```

    rules={[{ required: true }]}
    style={{ display: 'inline-block', width: 'calc(50% - 8px)' }}
  >
    <Input placeholder="Input birth year" />
  </Form.Item>
  <Form.Item
    name="month"
    rules={[{ required: true }]}
    style={{ display: 'inline-block', width: 'calc(50% - 8px)', margin:
'0 8px' }}
  >
    <Input placeholder="Input birth month" />
  </Form.Item>
</Form.Item>
<Form.Item label={null}>
  <Button type="primary" htmlType="submit">
    Submit
  </Button>
</Form.Item>
</Form>
);

export default App;

```

自定义表单控件

```

import React, { useState } from 'react';
import { Button, Form, Input, Select } from 'antd';

const { Option } = Select;

type Currency = 'rmb' | 'dollar';

interface PriceValue {
  number?: number;
  currency?: Currency;
}

interface PriceInputProps {
  id?: string;
  value?: PriceValue;
  onChange?: (value: PriceValue) => void;
}

const PriceInput: React.FC<PriceInputProps> = (props) => {
  const { id, value = {}, onChange } = props;

```



```

const [number, setNumber] = useState(0);
const [currency, setCurrency] = useState<Currency>('rmb');

const triggerChange = (changedValue: { number?: number; currency?:
Currency }) => {
  onChange?.({ number, currency, ...value, ...changedValue });
};

const onNumberChange = (e: React.ChangeEvent<HTMLInputElement>) => {
  const newNumber = parseInt(e.target.value || '0', 10);
  if (Number.isNaN(number)) {
    return;
  }
  if (!('number' in value)) {
    setNumber(newNumber);
  }
  triggerChange({ number: newNumber });
};

const onCurrencyChange = (newCurrency: Currency) => {
  if (!('currency' in value)) {
    setCurrency(newCurrency);
  }
  triggerChange({ currency: newCurrency });
};

return (
  <span id={id}>
    <Input
      type="text"
      value={value.number || number}
      onChange={onNumberChange}
      style={{ width: 100 }}
    />
    <Select
      value={value.currency || currency}
      style={{ width: 80, margin: '0 8px' }}
      onChange={onCurrencyChange}
    >
      <Option value="rmb">RMB</Option>
      <Option value="dollar">Dollar</Option>
    </Select>
  </span>
);
};

```

```

const App: React.FC = () => {
  const onFinish = (values: any) => {
    console.log('Received values from form: ', values);
  };

  const checkPrice = (_, value: { number: number }) => {
    if (value.number > 0) {
      return Promise.resolve();
    }
    return Promise.reject(new Error('Price must be greater than zero!'));
  };

  return (
    <Form
      name="customized_form_controls"
      layout="inline"
      onFinish={onFinish}
      initialValues={{
        price: {
          number: 0,
          currency: 'rmb',
        },
      }}
    >
      <Form.Item name="price" label="Price" rules={[{ validator: checkPrice
    ]}}>
        <PriceInput />
      </Form.Item>
      <Form.Item>
        <Button type="primary" htmlType="submit">
          Submit
        </Button>
      </Form.Item>
    </Form>
  );
};

export default App;

```

表单数据存储于上层组件

```

import React, { useState } from 'react';
import { Form, Input, Typography } from 'antd';

const { Paragraph } = Typography;

```

```

interface FieldData {
  name: string | number | (string | number)[];
  value?: any;
  touched?: boolean;
  validating?: boolean;
  errors?: string[];
}

interface CustomizedFormProps {
  onChange: (fields: FieldData[]) => void;
  fields: FieldData[];
}

const CustomizedForm: React.FC<CustomizedFormProps> = ({ onChange, fields
}) => (
  <Form
    name="global_state"
    layout="inline"
    fields={fields}
    onFieldsChange={({_, allFields}) => {
      onChange(allFields);
    }}
  >
    <Form.Item
      name="username"
      label="Username"
      rules={[{ required: true, message: 'Username is required!' }]}
    >
      <Input />
    </Form.Item>
  </Form>
);

const App: React.FC = () => {
  const [fields, setFields] = useState<FieldData[]>([
    { name: ['username'], value: 'Ant Design' }
  ]);

  return (
    <>
      <CustomizedForm
        fields={fields}
        onChange={(newFields) => {
          setFields(newFields);
        }}
      />
      <Paragraph style={{ maxWidth: 440, marginTop: 24 }}>

```

```

        <pre style={{ border: 'none' }}>{JSON.stringify(fields, null, 2)}
    </pre>
    </Paragraph>
  </>
);
};

export default App;

```

多表单联动

```

import React, { useEffect, useRef, useState } from 'react';
import { SmileOutlined, UserOutlined } from '@ant-design/icons';
import { Avatar, Button, Flex, Form, Input, InputNumber, Modal, Space,
Typography } from 'antd';
import type { GetRef } from 'antd';

type FormInstance = GetRef<typeof Form>;

const layout = {
  labelCol: { span: 8 },
  wrapperCol: { span: 16 },
};

const tailLayout = {
  wrapperCol: { offset: 8, span: 16 },
};

interface UserType {
  name: string;
  age: string;
}

interface ModalFormProps {
  open: boolean;
  onCancel: () => void;
}

// reset form fields when modal is form, closed
const useResetFormOnCloseModal = ({ form, open }: { form: FormInstance;
open: boolean }) => {
  const prevOpenRef = useRef<boolean>(null);
  useEffect(() => {
    prevOpenRef.current = open;
  }, [open]);
  const prevOpen = prevOpenRef.current;

```

```

useEffect(() => {
  if (!open && prevOpen) {
    form.resetFields();
  }
}, [form, prevOpen, open]);
};

const ModalForm: React.FC<ModalFormProps> = ({ open, onCancel }) => {
  const [form] = Form.useForm();

  useResetFormOnCloseModal({
    form,
    open,
  });

  const onOk = () => {
    form.submit();
  };

  return (
    <Modal title="Basic Drawer" open={open} onOk={onOk} onCancel=
{onCancel}>
      <Form form={form} layout="vertical" name="userForm">
        <Form.Item name="name" label="User Name" rules={[{ required: true
}}}>
          <Input />
        </Form.Item>
        <Form.Item name="age" label="User Age" rules={[{ required: true
}}}>
          <InputNumber />
        </Form.Item>
      </Form>
    </Modal>
  );
};

const App: React.FC = () => {
  const [open, setOpen] = useState(false);

  const showUserModal = () => {
    setOpen(true);
  };

  const hideUserModal = () => {
    setOpen(false);
  };

```

```

};

const onFinish = (values: any) => {
  console.log('Finish:', values);
};

return (
  <Form.Provider
    onFormFinish={({name, { values, forms }} => {
      if (name === 'userForm') {
        const { basicForm } = forms;
        const users = basicForm.getFieldValue('users') || [];
        basicForm.setFieldsValue({ users: [...users, values] });
        setOpen(false);
      }
    })
  >
    <Form {...layout} name="basicForm" onFinish={onFinish} style={{
      maxWidth: 600 }}>
      <Form.Item name="group" label="Group Name" rules={[{ required: true
    }}>

        <Input />
      </Form.Item>

      {/* Create a hidden field to make Form instance record this */}
      <Form.Item name="users" noStyle />

      <Form.Item
        label="User List"
        shouldUpdate={({prevValues, curValues}) => prevValues.users !==
curValues.users}
      >
        ({({ getFieldValue }) => {
          const users: UserType[] = getFieldValue('users') || [];
          return users.length ? (
            <Flex vertical gap={8}>
              {users.map((user) => (
                <Space key={user.name}>
                  <Avatar icon={<UserOutlined />} />
                  {`${user.name} - ${user.age}`}
                </Space>
              ))}
            </Flex>
          ) : (
            <Typography.Text className="ant-form-text" type="secondary">
              ( <SmileOutlined /> No user yet. )
            </Typography.Text>
          )
        }}
      </Form.Item>
    </Form>
  )
);

```

```

        </Typography.Text>
      );
    }}
  </Form.Item>
  <Form.Item {...tailLayout}>
    <Button htmlType="submit" type="primary">
      Submit
    </Button>
    <Button htmlType="button" style={{ margin: '0 8px' }} onClick=
{showUserModal}>
      Add User
    </Button>
  </Form.Item>
</Form>

  <ModalForm open={open} onCancel={hideUserModal} />
</Form.Provider>
);
};

export default App;

```

内联登录栏

```

import React, { useEffect, useState } from 'react';
import { LockOutlined, UserOutlined } from '@ant-design/icons';
import { Button, Form, Input } from 'antd';

const App: React.FC = () => {
  const [form] = Form.useForm();
  const [clientReady, setClientReady] = useState<boolean>(false);

  // To disable submit button at the beginning.
  useEffect(() => {
    setClientReady(true);
  }, []);

  const onFinish = (values: any) => {
    console.log('Finish:', values);
  };

  return (
    <Form form={form} name="horizontal_login" layout="inline" onFinish=
{onFinish}>
      <Form.Item
        name="username"

```

```

        rules={[{ required: true, message: 'Please input your username!'
    ]}]
    >
      <Input prefix={<UserOutlined />} placeholder="Username" />
    </Form.Item>
    <Form.Item
      name="password"
      rules={[{ required: true, message: 'Please input your password!'
    ]}]
    >
      <Input prefix={<LockOutlined />} type="password"
placeholder="Password" />
    </Form.Item>
    <Form.Item shouldUpdate>
      {() => (
        <Button
          type="primary"
          htmlType="submit"
          disabled={
            !clientReady ||
            !form.isFieldsTouched(true) ||
            !!form.getFieldsError().filter(({ errors }) =>
errors.length).length
          }
        >
          Log in
        </Button>
      )}
    </Form.Item>
  </Form>
);
};

export default App;

```

登录框

```

import React from 'react';
import { LockOutlined, UserOutlined } from '@ant-design/icons';
import { Button, Checkbox, Form, Input, Flex } from 'antd';

const App: React.FC = () => {
  const onFinish = (values: any) => {
    console.log('Received values of form: ', values);
  };

```



```

return (
  <Form
    name="login"
    initialValues={{ remember: true }}
    style={{ maxWidth: 360 }}
    onFinish={onFinish}
  >
    <Form.Item
      name="username"
      rules={[{ required: true, message: 'Please input your Username!'
    ]}]
    >
      <Input prefix={<UserOutlined />} placeholder="Username" />
    </Form.Item>
    <Form.Item
      name="password"
      rules={[{ required: true, message: 'Please input your Password!'
    ]}]
    >
      <Input prefix={<LockOutlined />} type="password"
placeholder="Password" />
    </Form.Item>
    <Form.Item>
      <Flex justify="space-between" align="center">
        <Form.Item name="remember" valuePropName="checked" noStyle>
          <Checkbox>Remember me</Checkbox>
        </Form.Item>
        <a href="">Forgot password</a>
      </Flex>
    </Form.Item>

    <Form.Item>
      <Button block type="primary" htmlType="submit">
        Log in
      </Button>
      or <a href="">Register now!</a>
    </Form.Item>
  </Form>
);
};

export default App;

```

注册新用户

```
import React, { useState } from 'react';
import type { CascaderProps } from 'antd';
import {
  AutoComplete,
  Button,
  Cascader,
  Checkbox,
  Col,
  Form,
  Input,
  InputNumber,
  Row,
  Select,
} from 'antd';

const { Option } = Select;

interface DataNodeType {
  value: string;
  label: string;
  children?: DataNodeType[];
}

const residences: CascaderProps<DataNodeType>['options'] = [
  {
    value: 'zhejiang',
    label: 'Zhejiang',
    children: [
      {
        value: 'hangzhou',
        label: 'Hangzhou',
        children: [
          {
            value: 'xihu',
            label: 'West Lake',
          },
        ],
      },
    ],
  },
  {
    value: 'jiangsu',
    label: 'Jiangsu',
    children: [
      {
        value: 'nanjing',

```

```

        label: 'Nanjing',
        children: [
          {
            value: 'zhonghuamen',
            label: 'Zhong Hua Men',
          },
        ],
      ],
    ],
  },
];

```

```

const formItemLayout = {
  labelCol: {
    xs: { span: 24 },
    sm: { span: 8 },
  },
  wrapperCol: {
    xs: { span: 24 },
    sm: { span: 16 },
  },
};

```

```

const tailFormItemLayout = {
  wrapperCol: {
    xs: {
      span: 24,
      offset: 0,
    },
    sm: {
      span: 16,
      offset: 8,
    },
  },
};

```

```

const App: React.FC = () => {
  const [form] = Form.useForm();

  const onFinish = (values: any) => {
    console.log('Received values of form: ', values);
  };

  const prefixSelector = (
    <Form.Item name="prefix" noStyle>
      <Select style={{ width: 70 }}>

```

```

        <Option value="86">+86</Option>
        <Option value="87">+87</Option>
      </Select>
    </Form.Item>
  );

  const suffixSelector = (
    <Form.Item name="suffix" noStyle>
      <Select style={{ width: 70 }}>
        <Option value="USD">$</Option>
        <Option value="CNY">¥</Option>
      </Select>
    </Form.Item>
  );

  const [autoCompleteResult, setAutoCompleteResult] = useState<string[]>
  ([]);

  const onWebsiteChange = (value: string) => {
    if (!value) {
      setAutoCompleteResult([]);
    } else {
      setAutoCompleteResult(['.com', '.org', '.net'].map((domain) =>
` ${value}${domain}`));
    }
  };

  const websiteOptions = autoCompleteResult.map((website) => ({
    label: website,
    value: website,
  }));

  return (
    <Form
      {...formItemLayout}
      form={form}
      name="register"
      onFinish={onFinish}
      initialValues={{ residence: ['zhejiang', 'hangzhou', 'xihu'], prefix:
'86' }}
      style={{ maxWidth: 600 }}
      scrollToFirstError
    >
      <Form.Item
        name="email"
        label="E-mail"

```

```

rules={[
  {
    type: 'email',
    message: 'The input is not valid E-mail!',
  },
  {
    required: true,
    message: 'Please input your E-mail!',
  },
]}
>
<Input />
</Form.Item>

<Form.Item
  name="password"
  label="Password"
  rules={[
    {
      required: true,
      message: 'Please input your password!',
    },
  ]}
  hasFeedback
>
  <Input.Password />
</Form.Item>

<Form.Item
  name="confirm"
  label="Confirm Password"
  dependencies={['password']}
  hasFeedback
  rules={[
    {
      required: true,
      message: 'Please confirm your password!',
    },
    ({ getFieldValue }) => ({
      validator(_, value) {
        if (!value || getFieldValue('password') === value) {
          return Promise.resolve();
        }
        return Promise.reject(new Error('The new password that you
entered do not match!'));
      },
    },
  ]},

```

```

    }},
  ]}
>
  <Input.Password />
</Form.Item>

<Form.Item
  name="nickname"
  label="Nickname"
  tooltip="What do you want others to call you?"
  rules={[{ required: true, message: 'Please input your nickname!',
whitespace: true }]}
>
  <Input />
</Form.Item>

<Form.Item
  name="residence"
  label="Habitual Residence"
  rules={[
    { type: 'array', required: true, message: 'Please select your
habitual residence!' },
  ]}
>
  <Cascader options={residences} />
</Form.Item>

<Form.Item
  name="phone"
  label="Phone Number"
  rules={[{ required: true, message: 'Please input your phone
number!' }]}
>
  <Input addonBefore={prefixSelector} style={{ width: '100%' }} />
</Form.Item>

<Form.Item
  name="donation"
  label="Donation"
  rules={[{ required: true, message: 'Please input donation amount!'
}}]
>
  <InputNumber addonAfter={suffixSelector} style={{ width: '100%' }}
/>
</Form.Item>

```

```

<Form.Item
  name="website"
  label="Website"
  rules={[{ required: true, message: 'Please input website!' }]}
>
  <AutoComplete options={websiteOptions} onChange={onWebsiteChange}
placeholder="website">
    <Input />
  </AutoComplete>
</Form.Item>

<Form.Item
  name="intro"
  label="Intro"
  rules={[{ required: true, message: 'Please input Intro' }]}
>
  <Input.TextArea showCount maxLength={100} />
</Form.Item>

<Form.Item
  name="gender"
  label="Gender"
  rules={[{ required: true, message: 'Please select gender!' }]}
>
  <Select placeholder="select your gender">
    <Option value="male">Male</Option>
    <Option value="female">Female</Option>
    <Option value="other">Other</Option>
  </Select>
</Form.Item>

<Form.Item label="Captcha" extra="We must make sure that your are a
human.">
  <Row gutter={8}>
    <Col span={12}>
      <Form.Item
        name="captcha"
        noStyle
        rules={[{ required: true, message: 'Please input the captcha
you got!' }]}
      >
        <Input />
      </Form.Item>
    </Col>
    <Col span={12}>
      <Button>Get captcha</Button>
    </Col>
  </Row>

```

```

        </Col>
      </Row>
    </Form.Item>

    <Form.Item
      name="agreement"
      valuePropName="checked"
      rules={[
        {
          validator: (_, value) =>
            value ? Promise.resolve() : Promise.reject(new Error('Should
accept agreement')),
        },
      ]}
      {...tailFormItemLayout}
    >
      <Checkbox>
        I have read the <a href="">agreement</a>
      </Checkbox>
    </Form.Item>
    <Form.Item {...tailFormItemLayout}>
      <Button type="primary" htmlType="submit">
        Register
      </Button>
    </Form.Item>
  </Form>
);
};

export default App;

```

高级搜索

```

import React, { useState } from 'react';
import { DownOutlined } from '@ant-design/icons';
import { Button, Col, Form, Input, Row, Select, Space, theme } from 'antd';

const { Option } = Select;

const AdvancedSearchForm = () => {
  const { token } = theme.useToken();
  const [form] = Form.useForm();
  const [expand, setExpand] = useState(false);

  const formStyle: React.CSSProperties = {
    maxWidth: 'none',
  };

```



```

background: token.colorFillAlter,
borderRadius: token.borderRadiusLG,
padding: 24,
};

const getFields = () => {
  const count = expand ? 10 : 6;
  const children = [];
  for (let i = 0; i < count; i++) {
    children.push(
      <Col span={8} key={i}>
        {i % 3 !== 1 ? (
          <Form.Item
            name={`field-${i}`}
            label={`Field ${i}`}
            rules={[
              {
                required: true,
                message: 'Input something!',
              },
            ]}
          >
            <Input placeholder="placeholder" />
          </Form.Item>
        ) : (
          <Form.Item
            name={`field-${i}`}
            label={`Field ${i}`}
            rules={[
              {
                required: true,
                message: 'Select something!',
              },
            ]}
            initialValue="1"
          >
            <Select>
              <Option value="1">

```

```

longlonglonglonglonglonglonglonglonglonglonglonglonglonglonglonglong
              </Option>
              <Option value="2">222</Option>
            </Select>
          </Form.Item>
        )}
      </Col>,

```

```

    );
  }
  return children;
};

const onFinish = (values: any) => {
  console.log('Received values of form: ', values);
};

return (
  <Form form={form} name="advanced_search" style={formStyle} onFinish={onFinish}>
    <Row gutter={24}>{getFields()}</Row>
    <div style={{ textAlign: 'right' }}>
      <Space size="small">
        <Button type="primary" htmlType="submit">
          Search
        </Button>
        <Button
          onClick={() => {
            form.resetFields();
          }}
        >
          Clear
        </Button>
        <a
          style={{ fontSize: 12 }}
          onClick={() => {
            setExpand(!expand);
          }}
        >
          <DownOutlined rotate={expand ? 180 : 0} /> Collapse
        </a>
      </Space>
    </div>
  </Form>
);
};

const App: React.FC = () => {
  const { token } = theme.useToken();

  const listStyle: React.CSSProperties = {
    lineHeight: '200px',
    textAlign: 'center',
    background: token.colorFillAlter,
  };

```

```

    borderRadius: token.borderRadiusLG,
    marginTop: 16,
  };

  return (
    <>
      <AdvancedSearchForm />
      <div style={listStyle}>Search Result List</div>
    </>
  );
};

export default App;

```

弹出层中的新建表单

```

import React, { useState } from 'react';
import { Button, Form, Input, Modal, Radio } from 'antd';

interface Values {
  title?: string;
  description?: string;
  modifier?: string;
}

const App: React.FC = () => {
  const [form] = Form.useForm();
  const [formValues, setFormValues] = useState<Values>();
  const [open, setOpen] = useState(false);

  const onCreate = (values: Values) => {
    console.log('Received values of form: ', values);
    setFormValues(values);
    setOpen(false);
  };

  return (
    <>
      <Button type="primary" onClick={() => setOpen(true)}>
        New Collection
      </Button>
      <pre>{JSON.stringify(formValues, null, 2)}</pre>
      <Modal
        open={open}
        title="Create a new collection"
        okText="Create"

```

```

cancelText="Cancel"
okButtonProps={{ autoFocus: true, htmlType: 'submit' }}
onCancel={() => setOpen(false)}
destroyOnClose
modalRender={(dom) => (
  <Form
    layout="vertical"
    form={form}
    name="form_in_modal"
    initialValues={{ modifier: 'public' }}
    clearOnDestroy
    onFinish={(values) => onCreate(values)}
  >
    {dom}
  </Form>
)}
>
<Form.Item
  name="title"
  label="Title"
  rules={[{ required: true, message: 'Please input the title of
collection!' }]}
>
  <Input />
</Form.Item>
<Form.Item name="description" label="Description">
  <Input type="textarea" />
</Form.Item>
<Form.Item name="modifier" className="collection-create-form_last-
form-item">
  <Radio.Group>
    <Radio value="public">Public</Radio>
    <Radio value="private">Private</Radio>
  </Radio.Group>
</Form.Item>
</Modal>
</>
);
};

export default App;

```

时间类控件

```

import React from 'react';
import { Button, DatePicker, Form, TimePicker } from 'antd';

```

```

const { RangePicker } = DatePicker;

const formItemLayout = {
  labelCol: {
    xs: { span: 24 },
    sm: { span: 8 },
  },
  wrapperCol: {
    xs: { span: 24 },
    sm: { span: 16 },
  },
};

const config = {
  rules: [{ type: 'object' as const, required: true, message: 'Please select time!' }],
};

const rangeConfig = {
  rules: [{ type: 'array' as const, required: true, message: 'Please select time!' }],
};

const onFinish = (fieldsValue: any) => {
  // Should format date value before submit.
  const rangeValue = fieldsValue['range-picker'];
  const rangeTimeValue = fieldsValue['range-time-picker'];
  const values = {
    ...fieldsValue,
    'date-picker': fieldsValue['date-picker'].format('YYYY-MM-DD'),
    'date-time-picker': fieldsValue['date-time-picker'].format('YYYY-MM-DD HH:mm:ss'),
    'month-picker': fieldsValue['month-picker'].format('YYYY-MM'),
    'range-picker': [rangeValue[0].format('YYYY-MM-DD'),
rangeValue[1].format('YYYY-MM-DD')],
    'range-time-picker': [
      rangeTimeValue[0].format('YYYY-MM-DD HH:mm:ss'),
      rangeTimeValue[1].format('YYYY-MM-DD HH:mm:ss'),
    ],
    'time-picker': fieldsValue['time-picker'].format('HH:mm:ss'),
  };
  console.log('Received values of form: ', values);
};

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

```

```

<Form
  name="time_related_controls"
  {...formItemLayout}
  onFinish={onFinish}
  style={{ maxWidth: 600 }}
>
  <Form.Item name="date-picker" label="DatePicker" {...config}>
    <DatePicker />
  </Form.Item>
  <Form.Item name="date-time-picker" label="DatePicker[showTime]"
{...config}>
    <DatePicker showTime format="YYYY-MM-DD HH:mm:ss" />
  </Form.Item>
  <Form.Item name="month-picker" label="MonthPicker" {...config}>
    <DatePicker picker="month" />
  </Form.Item>
  <Form.Item name="range-picker" label="RangePicker" {...rangeConfig}>
    <RangePicker />
  </Form.Item>
  <Form.Item name="range-time-picker" label="RangePicker[showTime]"
{...rangeConfig}>
    <RangePicker showTime format="YYYY-MM-DD HH:mm:ss" />
  </Form.Item>
  <Form.Item name="time-picker" label="TimePicker" {...config}>
    <TimePicker />
  </Form.Item>
  <Form.Item label={null}>
    <Button type="primary" htmlType="submit">
      Submit
    </Button>
  </Form.Item>
</Form>
);

export default App;

```

自行处理表单数据

```

import React, { useState } from 'react';
import type { InputNumberProps } from 'antd';
import { Form, InputNumber } from 'antd';

type ValidateStatus = Parameters<typeof Form.Item>[0]['validateStatus'];

const validatePrimeNumber = (
  number: number,

```

```

): {
  validateStatus: ValidateStatus;
  errorMsg: string | null;
} => {
  if (number === 11) {
    return {
      validateStatus: 'success',
      errorMsg: null,
    };
  }
  return {
    validateStatus: 'error',
    errorMsg: 'The prime between 8 and 12 is 11!',
  };
};

const formItemLayout = {
  labelCol: { span: 7 },
  wrapperCol: { span: 12 },
};

const tips =
  'A prime is a natural number greater than 1 that has no positive divisors
other than 1 and itself.';

const App: React.FC = () => {
  const [number, setNumber] = useState<{
    value: number;
    validateStatus?: ValidateStatus;
    errorMsg?: string | null;
 }>({ value: 11 });

  const onNumberChange: InputNumberProps['onChange'] = (value) => {
    setNumber({
      ...validatePrimeNumber(value as number),
      value: value as number,
    });
  };

  return (
    <Form style={{ maxWidth: 600 }}>
      <Form.Item
        {...formItemLayout}
        label="Prime between 8 & 12"
        validateStatus={number.validateStatus}
        help={number.errorMsg || tips}
      >

```

```

        >
        <InputNumber min={8} max={12} value={number.value} onChange=
{onNumberChange} />
      </Form.Item>
    </Form>
  );
};

export default App;

```

自定义校验

```

import React from 'react';
import { SmileOutlined } from '@ant-design/icons';
import {
  Cascader,
  DatePicker,
  Form,
  Input,
  InputNumber,
  Mentions,
  Select,
  TimePicker,
  TreeSelect,
} from 'antd';

const { Option } = Select;

const formItemLayout = {
  labelCol: {
    xs: { span: 24 },
    sm: { span: 6 },
  },
  wrapperCol: {
    xs: { span: 24 },
    sm: { span: 14 },
  },
};

const App: React.FC = () => (
  <Form {...formItemLayout} style={{ maxWidth: 600 }}>
    <Form.Item
      label="Fail"
      validateStatus="error"
      help="Should be combination of numbers & alphabets"
    >

```



```

        <Input placeholder="unavailable choice" id="error" />
    </Form.Item>

    <Form.Item label="Warning" validateStatus="warning">
        <Input placeholder="Warning" id="warning" prefix={<SmileOutlined />}
    />
    </Form.Item>

    <Form.Item
        label="Validating"
        hasFeedback
        validateStatus="validating"
        help="The information is being validated..."
    >
        <Input placeholder="I'm the content is being validated"
id="validating" />
    </Form.Item>

    <Form.Item label="Success" hasFeedback validateStatus="success">
        <Input placeholder="I'm the content" id="success" />
    </Form.Item>

    <Form.Item label="Warning" hasFeedback validateStatus="warning">
        <Input placeholder="Warning" id="warning2" />
    </Form.Item>

    <Form.Item
        label="Fail"
        hasFeedback
        validateStatus="error"
        help="Should be combination of numbers & alphabets"
    >
        <Input placeholder="unavailable choice" id="error2" />
    </Form.Item>

    <Form.Item label="Success" hasFeedback validateStatus="success">
        <DatePicker style={{ width: '100%' }} />
    </Form.Item>

    <Form.Item label="Warning" hasFeedback validateStatus="warning">
        <TimePicker style={{ width: '100%' }} />
    </Form.Item>

    <Form.Item label="Error" hasFeedback validateStatus="error">
        <DatePicker.RangePicker style={{ width: '100%' }} />
    </Form.Item>

```

```

<Form.Item label="Error" hasFeedback validateStatus="error">
  <Select placeholder="I'm Select" allowClear>
    <Option value="1">Option 1</Option>
    <Option value="2">Option 2</Option>
    <Option value="3">Option 3</Option>
  </Select>
</Form.Item>

<Form.Item
  label="Validating"
  hasFeedback
  validateStatus="error"
  help="Something breaks the rule."
>
  <Cascader placeholder="I'm Cascader" options={[{ value: 'xx', label:
'xx' }] } allowClear />
</Form.Item>

<Form.Item label="Warning" hasFeedback validateStatus="warning"
help="Need to be checked">
  <TreeSelect
    placeholder="I'm TreeSelect"
    treeData={[{ value: 'xx', label: 'xx' }] }
    allowClear
  />
</Form.Item>

<Form.Item label="inline" style={{ marginBottom: 0 }}>
  <Form.Item
    validateStatus="error"
    help="Please select right date"
    style={{ display: 'inline-block', width: 'calc(50% - 12px)' }}
  >
    <DatePicker />
  </Form.Item>
  <span
    style={{ display: 'inline-block', width: '24px', lineHeight:
'32px', textAlign: 'center' }}
  >
    -
  </span>
  <Form.Item style={{ display: 'inline-block', width: 'calc(50% -
12px)' }}>
    <DatePicker />
  </Form.Item>

```

```

</Form.Item>

<Form.Item label="Success" hasFeedback validateStatus="success">
  <InputNumber style={{ width: '100%' }} />
</Form.Item>

<Form.Item label="Success" hasFeedback validateStatus="success">
  <Input allowClear placeholder="with allowClear" />
</Form.Item>

<Form.Item label="Warning" hasFeedback validateStatus="warning">
  <Input.Password placeholder="with input password" />
</Form.Item>

<Form.Item label="Error" hasFeedback validateStatus="error">
  <Input.Password allowClear placeholder="with input password and
allowClear" />
</Form.Item>

<Form.Item label="Success" hasFeedback validateStatus="success">
  <Input.OTP />
</Form.Item>
<Form.Item label="Warning" hasFeedback validateStatus="warning">
  <Input.OTP />
</Form.Item>

<Form.Item label="Error" hasFeedback validateStatus="error">
  <Input.OTP />
</Form.Item>

<Form.Item label="Fail" validateStatus="error" hasFeedback>
  <Mentions />
</Form.Item>

<Form.Item label="Fail" validateStatus="error" hasFeedback help="Should
have something">
  <Input.TextArea allowClear showCount />
</Form.Item>
</Form>
);

export default App;

```

动态校验规则

```

import React, { useEffect, useState } from 'react';
import { Button, Checkbox, Form, Input } from 'antd';

const formItemLayout = {
  labelCol: { span: 4 },
  wrapperCol: { span: 8 },
};

const formTailLayout = {
  labelCol: { span: 4 },
  wrapperCol: { span: 8, offset: 4 },
};

const App: React.FC = () => {
  const [form] = Form.useForm();
  const [checkNick, setCheckNick] = useState(false);

  useEffect(() => {
    form.validateFields(['nickname']);
  }, [checkNick, form]);

  const onCheckboxChange = (e: { target: { checked: boolean } }) => {
    setCheckNick(e.target.checked);
  };

  const onCheck = async () => {
    try {
      const values = await form.validateFields();
      console.log('Success:', values);
    } catch (errorInfo) {
      console.log('Failed:', errorInfo);
    }
  };

  return (
    <Form form={form} name="dynamic_rule" style={{ maxWidth: 600 }}>
      <Form.Item
        {...formItemLayout}
        name="username"
        label="Name"
        rules={[{ required: true, message: 'Please input your name' }]}
      >
        <Input placeholder="Please input your name" />
      </Form.Item>
      <Form.Item
        {...formItemLayout}

```

```

        name="nickname"
        label="Nickname"
        rules={[{ required: checkNick, message: 'Please input your
nickname' }]}
      >
        <Input placeholder="Please input your nickname" />
      </Form.Item>
      <Form.Item {...formTailLayout}>
        <Checkbox checked={checkNick} onChange={onCheckboxChange}>
          Nickname is required
        </Checkbox>
      </Form.Item>
      <Form.Item {...formTailLayout}>
        <Button type="primary" onClick={onCheck}>
          Check
        </Button>
      </Form.Item>
    </Form>
  );
};

export default App;

```

校验与更新依赖

```

import React from 'react';
import { Alert, Form, Input, Typography } from 'antd';

const App: React.FC = () => {
  const [form] = Form.useForm();
  return (
    <Form
      form={form}
      name="dependencies"
      autoComplete="off"
      style={{ maxWidth: 600 }}
      layout="vertical"
    >
      <Alert message=" Try modify `Password2` and then modify `Password`"
        type="info" showIcon />

      <Form.Item label="Password" name="password" rules={[{ required: true
    ]}}>
        <Input />
      </Form.Item>
    </Form>
  );
};

```

```

    { /* Field */ }
    <Form.Item
      label="Confirm Password"
      name="password2"
      dependencies={['password']}
      rules={[
        {
          required: true,
        },
        ({ getFieldValue }) => ({
          validator(_, value) {
            if (!value || getFieldValue('password') === value) {
              return Promise.resolve();
            }
            return Promise.reject(new Error('The new password that you
entered do not match!'));
          },
        }),
      ]}
    >
      <Input />
    </Form.Item>

    { /* Render Props */ }
    <Form.Item noStyle dependencies={['password2']}>
      {() => (
        <Typography>
          <p>
            Only Update when <code>password2</code> updated:
          </p>
          <pre>{JSON.stringify(form.getFieldsValue(), null, 2)}</pre>
        </Typography>
      )}
    </Form.Item>
  </Form>
);
};

export default App;

```

滑动到错误字段

```

import React from 'react';
import { Button, Flex, Form, Input, Select } from 'antd';

const App = () => {

```

```

const [form] = Form.useForm();

return (
  <Form
    form={form}
    scrollToFirstError={{ behavior: 'instant', block: 'end', focus: true
  }}
    style={{ paddingBlock: 32 }}
    labelCol={{ span: 6 }}
    wrapperCol={{ span: 14 }}
  >
    <Form.Item wrapperCol={{ offset: 6 }}>
      <Button onClick={() => form.scrollToField('bio')}>Scroll to
Bio</Button>
    </Form.Item>

    <Form.Item name="username" label="UserName" rules={[{ required: true
  }]}>
      <Input />
    </Form.Item>

    <Form.Item label="Occupation" name="occupation">
      <Select
        options={[
          { label: 'Designer', value: 'designer' },
          { label: 'Developer', value: 'developer' },
          { label: 'Product Manager', value: 'product-manager' },
        ]}
      />
    </Form.Item>

    <Form.Item name="motto" label="Motto">
      <Input.TextArea rows={4} />
    </Form.Item>

    <Form.Item name="bio" label="Bio" rules={[{ required: true }]}>
      <Input.TextArea rows={6} />
    </Form.Item>

    <Form.Item wrapperCol={{ offset: 6 }}>
      <Flex gap="small">
        <Button type="primary" htmlType="submit">
          Submit
        </Button>
        <Button danger onClick={() => form.resetFields()}>
          Reset
      </Flex>
    </Form.Item>
  </Form>
);

```

```

        </Button>
      </Flex>
    </Form.Item>
  </Form>
);
};

export default App;

```

校验其他组件

```

import React from 'react';
import { InboxOutlined, UploadOutlined } from '@ant-design/icons';
import {
  Button,
  Checkbox,
  Col,
  ColorPicker,
  Form,
  InputNumber,
  Radio,
  Rate,
  Row,
  Select,
  Slider,
  Space,
  Switch,
  Upload,
} from 'antd';

const { Option } = Select;

const formItemLayout = {
  labelCol: { span: 6 },
  wrapperCol: { span: 14 },
};

const normFile = (e: any) => {
  console.log('Upload event:', e);
  if (Array.isArray(e)) {
    return e;
  }
  return e?.fileList;
};

const onFinish = (values: any) => {

```



```

    console.log('Received values of form: ', values);
  };

const App: React.FC = () => (
  <Form
    name="validate_other"
    {...formItemLayout}
    onFinish={onFinish}
    initialValues={{
      'input-number': 3,
      'checkbox-group': ['A', 'B'],
      rate: 3.5,
      'color-picker': null,
    }}
    style={{ maxWidth: 600 }}
  >
    <Form.Item label="Plain Text">
      <span className="ant-form-text">China</span>
    </Form.Item>
    <Form.Item
      name="select"
      label="Select"
      hasFeedback
      rules={[{ required: true, message: 'Please select your country!' }]}
    >
      <Select placeholder="Please select a country">
        <Option value="china">China</Option>
        <Option value="usa">U.S.A</Option>
      </Select>
    </Form.Item>

    <Form.Item
      name="select-multiple"
      label="Select[multiple]"
      rules={[{ required: true, message: 'Please select your favourite
colors!', type: 'array' }]}
    >
      <Select mode="multiple" placeholder="Please select favourite colors">
        <Option value="red">Red</Option>
        <Option value="green">Green</Option>
        <Option value="blue">Blue</Option>
      </Select>
    </Form.Item>

    <Form.Item label="InputNumber">
      <Form.Item name="input-number" noStyle>

```

```

        <InputNumber min={1} max={10} />
    </Form.Item>
    <span className="ant-form-text" style={{ marginInlineStart: 8 }}>
        machines
    </span>
</Form.Item>

<Form.Item name="switch" label="Switch" valuePropName="checked">
    <Switch />
</Form.Item>

<Form.Item name="slider" label="Slider">
    <Slider
        marks={{
            0: 'A',
            20: 'B',
            40: 'C',
            60: 'D',
            80: 'E',
            100: 'F',
        }}
    />
</Form.Item>

<Form.Item name="radio-group" label="Radio.Group">
    <Radio.Group>
        <Radio value="a">item 1</Radio>
        <Radio value="b">item 2</Radio>
        <Radio value="c">item 3</Radio>
    </Radio.Group>
</Form.Item>

<Form.Item
    name="radio-button"
    label="Radio.Button"
    rules={[{ required: true, message: 'Please pick an item!' }]}
>
    <Radio.Group>
        <Radio.Button value="a">item 1</Radio.Button>
        <Radio.Button value="b">item 2</Radio.Button>
        <Radio.Button value="c">item 3</Radio.Button>
    </Radio.Group>
</Form.Item>

<Form.Item name="checkbox-group" label="Checkbox.Group">
    <Checkbox.Group>

```

```
<Row>  
  <Col span={8}>  
    <Checkbox value="A" style={{ lineHeight: '32px' }}>  
      A  
    </Checkbox>  
  </Col>  
  <Col span={8}>  
    <Checkbox value="B" style={{ lineHeight: '32px' }} disabled>  
      B  
    </Checkbox>  
  </Col>  
  <Col span={8}>  
    <Checkbox value="C" style={{ lineHeight: '32px' }}>  
      C  
    </Checkbox>  
  </Col>  
  <Col span={8}>  
    <Checkbox value="D" style={{ lineHeight: '32px' }}>  
      D  
    </Checkbox>  
  </Col>  
  <Col span={8}>  
    <Checkbox value="E" style={{ lineHeight: '32px' }}>  
      E  
    </Checkbox>  
  </Col>  
  <Col span={8}>  
    <Checkbox value="F" style={{ lineHeight: '32px' }}>  
      F  
    </Checkbox>  
  </Col>  
</Row>  
</Checkbox.Group>  
</Form.Item>  
  
<Form.Item name="rate" label="Rate">  
  <Rate />  
</Form.Item>  
  
<Form.Item  
  name="upload"  
  label="Upload"  
  valuePropName="fileList"  
  getValueFromEvent={normFile}  
  extra="longggggggggggggggggggggggggggggggggggggggggg"  
>
```

```

      <Upload name="logo" action="/upload.do" listType="picture">
        <Button icon={<UploadOutlined />}>Click to upload</Button>
      </Upload>
    </Form.Item>
    <Form.Item label="Dragger">
      <Form.Item name="dragger" valuePropName="fileList" getValueFromEvent=
{normFile} noStyle>
        <Upload.Dragger name="files" action="/upload.do">
          <p className="ant-upload-drag-icon">
            <InboxOutlined />
          </p>
          <p className="ant-upload-text">Click or drag file to this area to
upload</p>
          <p className="ant-upload-hint">Support for a single or bulk
upload.</p>
        </Upload.Dragger>
      </Form.Item>
    </Form.Item>
    <Form.Item
      name="color-picker"
      label="ColorPicker"
      rules={[{ required: true, message: 'color is required!' }]}
    >
      <ColorPicker />
    </Form.Item>

    <Form.Item wrapperCol={{ span: 12, offset: 6 }}>
      <Space>
        <Button type="primary" htmlType="submit">
          Submit
        </Button>
        <Button htmlType="reset">reset</Button>
      </Space>
    </Form.Item>
  </Form>
);

export default App;

```

getValueProps + normalize

```

import React from 'react';
import type { FormProps } from 'antd';
import { Button, DatePicker, Form } from 'antd';
import dayjs from 'dayjs';

```

```

const dateTimestamp = dayjs('2024-01-01').valueOf();

type FieldType = {
  date?: string;
};

const onFinish: FormProps<FieldType>['onFinish'] = (values) => {
  console.log('Success:', values);
};

const App: React.FC = () => (
  <Form
    name="getValueProps"
    labelCol={{ span: 8 }}
    wrapperCol={{ span: 16 }}
    style={{ maxWidth: 600 }}
    initialValues={{ date: dateTimestamp }}
    onFinish={onFinish}
    autoComplete="off"
  >
    <Form.Item<FieldType>
      label="Date"
      name="date"
      rules={[{ required: true }]}
      getValueProps={(value) => ({ value: value && dayjs(Number(value)) })}
      normalize={(value) => value && `${dayjs(value).valueOf()}`}
    >
      <DatePicker />
    </Form.Item>

    <Form.Item label={null}>
      <Button type="primary" htmlType="submit">
        Submit
      </Button>
    </Form.Item>
  </Form>
);

export default App;

```

Disabled Input Debug

Debug

```

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

const App: React.FC = () => (
  <Form style={{ maxWidth: 600 }}>
    <Form.Item label="Normal0">
      <Input placeholder="unavailable choice" value="Buggy!" />
    </Form.Item>
    <Form.Item label="Fail0" validateStatus="error" help="Buggy!">
      <Input placeholder="unavailable choice" value="Buggy!" />
    </Form.Item>
    <Form.Item label="FailDisabled0" validateStatus="error" help="Buggy!">
      <Input placeholder="unavailable choice" disabled value="Buggy!" />
    </Form.Item>
    <Form.Item label="Normal1">
      <Input placeholder="unavailable choice" value="Buggy!" />
    </Form.Item>
    <Form.Item label="Fail1" validateStatus="error" help="Buggy!">
      <Input placeholder="unavailable choice" value="Buggy!" />
    </Form.Item>
    <Form.Item label="FailDisabled1" validateStatus="error" help="Buggy!">
      <Input placeholder="unavailable choice" disabled value="Buggy!" />
    </Form.Item>
    <Form.Item label="Normal2">
      <Input placeholder="unavailable choice" addBefore="Buggy!" />
    </Form.Item>
    <Form.Item label="Fail2" validateStatus="error" help="Buggy!">
      <Input placeholder="unavailable choice" addBefore="Buggy!" />
    </Form.Item>
    <Form.Item label="FailDisabled2" validateStatus="error" help="Buggy!">
      <Input placeholder="unavailable choice" disabled addBefore="Buggy!"
/>
    </Form.Item>
    <Form.Item label="Normal3">
      <Input placeholder="unavailable choice" prefix="人民币" value="50" />
    </Form.Item>
    <Form.Item label="Fail3" validateStatus="error" help="Buggy!">
      <Input placeholder="unavailable choice" prefix="人民币" value="50" />
    </Form.Item>
    <Form.Item label="FailDisabled3" validateStatus="error" help="Buggy!">
      <Input placeholder="unavailable choice" disabled prefix="人民币"
value="50" />
    </Form.Item>
  </Form>
);

```

```
export default App;
```

测试 label 省略

Debug

```
import React from 'react';
import { Form, Input, Typography } from 'antd';

const App: React.FC = () => (
  <Form
    name="label-ellipsis"
    labelCol={{ span: 8 }}
    wrapperCol={{ span: 16 }}
    style={{ maxWidth: 600 }}
  >
    <Form.Item
      label={
        <Typography.Text ellipsis>
          longtextlongtextlongtextlongtextlongtextlongtextlongtext
        </Typography.Text>
      }
      name="username"
    >
      <Input />
    </Form.Item>

    <Form.Item
      label={
        <Typography.Text ellipsis>
          longtext longtext longtext longtext longtext longtext longtext
        </Typography.Text>
      }
      name="password"
    >
      <Input.Password />
    </Form.Item>
  </Form>
);

export default App;
```

测试特殊 col 24 用法

Debug

```

import React from 'react';
import { Button, Divider, Form, Input, Select } from 'antd';

const sharedItem = (
  <Form.Item
    label={
      <a
        href="https://github.com/ant-design/ant-design/issues/36459"
        target="_blank"
        rel="noreferrer"
      >
        #36459
      </a>
    }
    initialValue={['bamboo']}
    name="select"
    style={{ boxShadow: '0 0 3px red' }}
  >
    <Select
      style={{ width: '70%' }}
      mode="multiple"
      options={[
        { label: 'Bamboo', value: 'bamboo' },
        { label: 'Little', value: 'little' },
        { label: 'Light', value: 'light' },
      ]}
    />
  </Form.Item>
);

const App: React.FC = () => {
  const onFinish = (values: any) => {
    console.log('Success:', values);
  };

  const onFinishFailed = (errorInfo: any) => {
    console.log('Failed:', errorInfo);
  };

  return (
    <>
      <Form
        name="col-24-debug"
        labelCol={{ span: 24 }}
        wrapperCol={{ span: 24 }}
        initialValues={{ remember: true }}

```



```

    onFinish={onFinish}
    onFinishFailed={onFinishFailed}
    style={{ maxWidth: 600 }}
    autoComplete="off"
  >
    <Form.Item
      label="Username"
      name="username"
      rules={[{ required: true, message: 'Please input your username!'
    }}}
  >
    <Input />
  </Form.Item>

  <Form.Item
    label="Password"
    name="password"
    rules={[{ required: true, message: 'Please input your password!'
  }}}
  >
    <Input.Password />
  </Form.Item>

  {sharedItem}

  <Form.Item>
    <Button type="primary" htmlType="submit">
      Submit
    </Button>
  </Form.Item>
</Form>
<Form
  name="responsive"
  labelCol={{ sm: 24, xl: 24 }}
  wrapperCol={{ sm: 24, xl: 24 }}
  initialValues={{ remember: true }}
  onFinish={onFinish}
  onFinishFailed={onFinishFailed}
  autoComplete="off"
  >
    <Form.Item
      label="Username"
      name="username"
      rules={[{ required: true, message: 'Please input your username!'
    }}}
  >

```

```

        <Input />
      </Form.Item>

      <Form.Item
        label="Password"
        name="password"
        rules={[{ required: true, message: 'Please input your password!'
    ]}]
      >
        <Input.Password />
      </Form.Item>

      <Form.Item>
        <Button type="primary" htmlType="submit">
          Submit
        </Button>
      </Form.Item>
    </Form>

    <Divider />

    <Form layout="vertical">
      {sharedItem}

      <Form.Item label="col12" name="col12" labelCol={{ span: 12 }}
wrapperCol={{ span: 12 }}>
        <Input />
      </Form.Item>
    </Form>
  </>
);
};

export default App;

```

引用字段

Debug

```

import React from 'react';
import type { InputRef } from 'antd';
import { Button, Form, Input } from 'antd';

const App: React.FC = () => {
  const [form] = Form.useForm();
  const ref = React.useRef<InputRef>(null);

```

```

return (
  <Form form={form} initialValues={{ list: ['light'] }} style={{
maxWidth: 600 }}>
    <Form.Item name="test" label="test">
      <Input ref={ref} />
    </Form.Item>

    <Form.List name="list">
      {(fields) =>
        fields.map((field) => (
          <Form.Item {...field} key={field.key}>
            <Input ref={ref} />
          </Form.Item>
        ))
      }
    </Form.List>

    <Button
      htmlType="button"
      onClick={() => {
        form.getFieldInstance('test').focus();
      }}
    >
      Focus Form.Item
    </Button>
    <Button
      onClick={() => {
        form.getFieldInstance(['list', 0]).focus();
      }}
    >
      Focus Form.List
    </Button>
  </Form>
);
};

export default App;

```

Custom feedback icons

Debug

```

import React from 'react';
import { AlertFilled, CloseSquareFilled } from '@ant-design/icons';
import { Button, Form, Input, Tooltip } from 'antd';

```

```

import { createStyles, css } from 'antd-style';
import uniqueId from 'lodash/uniqueId';

const useStyle = createStyles(() => ({
  'custom-feedback-icons': css`
    .ant-form-item-feedback-icon {
      pointer-events: all;
    }
  `,
}));

const App: React.FC = () => {
  const [form] = Form.useForm();
  const { styles } = useStyle();

  return (
    <Form
      name="custom-feedback-icons"
      form={form}
      style={{ maxWidth: 600 }}
      feedbackIcons={({ errors }) => ({
        error: (
          <Tooltip
            key="tooltipKey"
            title={errors?.map((error) => <div key={uniqueId()}>{error}</div>)}
            color="red"
          >
            <CloseSquareFilled />
          </Tooltip>
        ),
      })}
    >
      <Form.Item
        name="custom-feedback-test-item"
        label="Test"
        className={styles['custom-feedback-icons']}
        rules={[{ required: true, type: 'email' }, { min: 10 }]}
        help=""
        hasFeedback
      >
        <Input />
      </Form.Item>
      <Form.Item
        name="custom-feedback-test-item2"
        label="Test"

```

```

        className={styles['custom-feedback-icons']}
        rules={[{ required: true, type: 'email' }, { min: 10 }]}
        help=""
        hasFeedback={{
          icons: ({ errors }) => ({
            error: (
              <Tooltip
                key="tooltipKey"
                title={errors?.map((error) => <div key={uniqueId()}>{error}</div>)}
              </div>)}
              color="pink"
            >
              <AlertFilled />
            </Tooltip>
          ),
          success: false,
        }},
      >
        <Input />
      </Form.Item>
      <Form.Item>
        <Button htmlType="submit">Submit</Button>
      </Form.Item>
    </Form>
  );
};

export default App;

```

组件 Token

Debug

```

import React from 'react';
import { ConfigProvider, Form, Input } from 'antd';

const App: React.FC = () => (
  <ConfigProvider
    theme={{
      components: {
        Form: {
          labelRequiredMarkColor: 'pink',
          labelColor: 'green',
          labelFontSize: 16,
          labelHeight: 34,

```

```

        labelColonMarginInlineStart: 4,
        labelColonMarginInlineEnd: 12,
        itemMarginBottom: 18,
        inlineItemMarginBottom: 18,
      },
    },
  }}
>
<Form
  name="component-token"
  labelCol={{ span: 8 }}
  wrapperCol={{ span: 16 }}
  style={{ maxWidth: 600 }}
  initialValues={{ remember: true }}
  autoComplete="off"
>
  <Form.Item
    label="Username"
    name="username"
    rules={[{ required: true, message: 'Please input your username!'
  ]}]
  >
    <Input />
  </Form.Item>

  <Form.Item
    label="Password"
    name="password"
    rules={[{ required: true, message: 'Please input your password!'
  ]}]
  >
    <Input.Password />
  </Form.Item>
</Form>
</ConfigProvider>
);

export default App;

```

API

通用属性参考: [通用属性](#)

Form

参数	说明	类型	默认值
----	----	----	-----

colon	配置 Form.Item 的 colon 的默认值。表示是否显示 label 后面的冒号 (只有在属性 layout 为 horizontal 时有效)	boolean	true	
disabled	设置表单组件禁用, 仅对 antd 组件有效	boolean	false	4
component	设置 Form 渲染元素, 为 false 则不创建 DOM 节点	ComponentType false	form	
fields	通过状态管理 (如 redux) 控制表单字段, 如非强需求不推荐使用。查看 示例	FieldData[]	-	
form	经 Form.useForm() 创建的 form 控制实例, 不提供时会自动创建	FormInstance	-	
feedbackIcons	当 Form.Item 有 hasFeedback 属性时可以自定义图标	FeedbackIcons	-	5
initialValues	表单默认值, 只有初始化以及重置时生效	object	-	
labelAlign	label 标签的文本对齐方式	left right	right	
labelWrap	label 标签的文本换行方式	boolean	false	4
labelCol	label 标签布局, 同 <Col> 组件, 设置 span offset 值, 如 {span: 3, offset: 12} 或 sm: {span: 3, offset: 12}	object	-	
layout	表单布局	horizontal vertical inline	horizontal	
name	表单名称, 会作为表单字段 id 前缀使用	string	-	
preserve	当字段被删除时保留字段值。你可以通过 getFieldsValue(true) 来获取保留字段值	boolean	true	4

requiredMark	必选样式，可以切换为必选或者可选展示样式。此为 Form 配置，Form.Item 无法单独配置	boolean optional ((label: ReactNode, info: { required: boolean }) => ReactNode)	true	5
scrollToFirstError	提交失败自动滚动到第一个错误字段	boolean Options { focus: boolean }	false	f
size	设置字段组件的尺寸（仅限 antd 组件）	small middle large	-	
validateMessages	验证提示模板，说明 见下	ValidateMessages	-	
validateTrigger	统一设置字段触发验证的时机	string string[]	onChange	4
variant	表单内控件变体	outlined borderless filled underlined	outlined	5 L 5
wrapperCol	需要为输入控件设置布局样式时，使用该属性，用法同 labelCol	object	-	
onFieldsChange	字段更新时触发回调事件	function(changedFields, allFields)	-	
onFinish	提交表单且数据验证成功后回调事件	function(values)	-	
onFinishFailed	提交表单且数据验证失败后回调事件	function({ values, errorFields, outOfDate })	-	
onValuesChange	字段值更新时触发回调事件	function(changedValues, allValues)	-	
clearOnDestroy	当表单被卸载时清空表单值	boolean	false	5

支持原生 form 除 `onSubmit` 外的所有属性。

validateMessages

Form 为验证提供了[默认的错误提示信息](#)，你可以通过配置 `validateMessages` 属性，修改对应的提示模板。一种常见的使用方式，是配置国际化提示信息：

```
const validateMessages = {
  required: "'${name}' 是必选字段",
  // ...
};
```



```
<Form validateMessages={validateMessages} />;
```

此外，[ConfigProvider](#) 也提供了全局化配置方案，允许统一配置错误提示模板：

```
const validateMessages = {
  required: "'${name}' 是必选字段",
  // ...
};

<ConfigProvider form={{ validateMessages }}>
  <Form />
</ConfigProvider>;
```

Form.Item

表单字段组件，用于数据双向绑定、校验、布局等。

参数	说明	类型	默认值	版本
colon	配合 label 属性使用，表示是否显示 label 后面的冒号	boolean	true	
dependencies	设置依赖字段，说明 见下	NamePath[]	-	
extra	额外的提示信息，和 help 类似，当需要错误信息和提示文案同时出现时，可以使用这个。	ReactNode	-	
getValueFromEvent	设置如何将 event 的值转换成字段值	(..args: any[]) => any	-	
getValueProps	为子元素添加额外的属性 (不建议通过 getValueProps 生成动态函数 prop，请直接将其传递给子组件)	(value: any) => Record<string, any>	-	4.2.0
hasFeedback	配合 validateStatus 属性使用，展示校验状态图标，建议只配合 Input 组件使用 此外，它还可以通过 Icons 属性获取反馈图标。	boolean { icons: FeedbackIcons }	false	icons: 5.9.0

help	提示信息，如不设置，则会根据校验规则自动生成	ReactNode	-	
hidden	是否隐藏字段（依然会收集和校验字段）	boolean	false	4.4.0
htmlFor	设置子元素 label htmlFor 属性	string	-	
initialValue	设置子元素默认值，如果与 Form 的 initialValues 冲突则以 Form 为准	string	-	4.2.0
label	label 标签的文本，当不需要 label 又需要与冒号对齐，可以设为 null	ReactNode	-	null: 5.22.0
labelAlign	标签文本对齐方式	left right	right	
labelCol	label 标签布局，同 <Col> 组件，设置 span offset 值，如 {span: 3, offset: 12} 或 sm: {span: 3, offset: 12}。你可以通过 Form 的 labelCol 进行统一设置，不会作用于嵌套 Item。当和 Form 同时设置时，以 Item 为准	object	-	
messageVariables	默认验证字段的信息，查看 详情	Record<string, string>	-	4.7.0
name	字段名，支持数组	NamePath	-	
normalize	组件获取值后进行转换，再放入 Form 中。不支持异步	(value, prevValue, prevValues) => any	-	
noStyle	为 true 时不带样式，作为纯字段控件使用。当自身没有 validateStatus 而父元素存在有 validateStatus 的	boolean	false	

	Form.Item 会继承父元素的 <code>validateStatus</code>			
<code>preserve</code>	当字段被删除时保留字段值	<code>boolean</code>	<code>true</code>	4.4.0
<code>required</code>	必填样式设置。如不设置，则会根据校验规则自动生成	<code>boolean</code>	<code>false</code>	
<code>rules</code>	校验规则，设置字段的校验逻辑。点击 此处 查看示例	Rule[]	-	
<code>shouldUpdate</code>	自定义字段更新逻辑，说明 见下	<code>boolean (prevValue, curValue) => boolean</code>	<code>false</code>	
<code>tooltip</code>	配置提示信息	<code>ReactNode TooltipProps & { icon: ReactNode }</code>	-	4.7.0
<code>trigger</code>	设置收集字段值变更的时机。点击 此处 查看示例	<code>string</code>	<code>onChange</code>	
<code>validateFirst</code>	当某一规则校验不通过时，是否停止剩下的规则的校验。设置 <code>parallel</code> 时会并行校验	<code>boolean parallel</code>	<code>false</code>	<code>parallel:</code> 4.5.0
<code>validateDebounce</code>	设置防抖，延迟毫秒数后进行校验	<code>number</code>	-	5.9.0
<code>validateStatus</code>	校验状态，如不设置，则会根据校验规则自动生成，可选：'success' 'warning' 'error' 'validating'	<code>string</code>	-	
<code>validateTrigger</code>	设置字段校验的时机	<code>string string[]</code>	<code>onChange</code>	
<code>valuePropName</code>	子节点的值的属性。注意：Switch、Checkbox 的 <code>valuePropName</code> 应该是 <code>checked</code> ，否则无法获取这个两个组件的	<code>string</code>	<code>value</code>	

	值。该属性为 <code>getValueProps</code> 的封装，自定义 <code>getValueProps</code> 后会失效			
<code>wrapperCol</code>	需要为输入控件设置布局样式时，使用该属性，用法同 <code>labelCol</code> 。你可以通过 <code>Form</code> 的 <code>wrapperCol</code> 进行统一设置，不会作用于嵌套 <code>Item</code> 。当和 <code>Form</code> 同时设置时，以 <code>Item</code> 为准	object	-	
<code>layout</code>	表单项布局	<code>horizontal vertical</code>	-	5.18.0

被设置了 `name` 属性的 `Form.Item` 包装的控件，表单控件会自动添加 `value`（或 `valuePropName` 指定的其他属性）`onChange`（或 `trigger` 指定的其他属性），数据同步将被 `Form` 接管，这会导致以下结果：

1. 你不再需要也不应该用 `onChange` 来做数据收集同步（你可以使用 `Form` 的 `onValuesChange`），但还是可以继续监听 `onChange` 事件。
2. 你不能用控件的 `value` 或 `defaultValue` 等属性来设置表单域的值，默认值可以用 `Form` 里的 `initialValues` 来设置。注意 `initialValues` 不能被 `setState` 动态更新，你需要用 `setFieldsValue` 来更新。
3. 你不应该用 `setState`，可以使用 `form.setFieldsValue` 来动态改变表单值。

dependencies

当字段间存在依赖关系时使用。如果一个字段设置了 `dependencies` 属性。那么它所依赖的字段更新时，该字段将自动触发更新与校验。一种常见的场景，就是注册用户表单的“密码”与“确认密码”字段。“确认密码”校验依赖于“密码”字段，设置 `dependencies` 后，“密码”字段更新会重新触发“校验密码”的校验逻辑。你可以参考[具体例子](#)。

`dependencies` 不应和 `shouldUpdate` 一起使用，因为这可能带来更新逻辑的混乱。

FeedbackIcons

```
({ status: ValidateStatus, errors: ReactNode, warnings: ReactNode }) =>
Record<ValidateStatus, ReactNode>
```

shouldUpdate

`Form` 通过增量更新方式，只更新被修改的字段相关组件以达到性能优化目的。大部分场景下，你只需要编写代码或者与 [dependencies](#) 属性配合校验即可。而在某些特定场景，例如修改某个字段值后出现新的

字段选项、或者纯粹希望表单任意变化都对某一个区域进行渲染。你可以通过 `shouldUpdate` 修改 `Form.Item` 的更新逻辑。

当 `shouldUpdate` 为 `true` 时，`Form` 的任意变化都会使该 `Form.Item` 重新渲染。这对于自定义渲染一些区域十分有帮助，要注意 `Form.Item` 里包裹的子组件必须由函数返回，否则 `shouldUpdate` 不会起作用：

相关issue: [#34500](#)

```
<Form.Item shouldUpdate>
  {() => {
    return <pre>{JSON.stringify(form.getFieldsValue(), null, 2)}</pre>;
  }}
</Form.Item>
```

你可以参考[示例](#)查看具体使用场景。

当 `shouldUpdate` 为方法时，表单的每次数值更新都会调用该方法，提供原先的值与当前的值以供你比较是否需要更新。这对于是否根据值来渲染额外字段十分有帮助：

```
<Form.Item shouldUpdate={ (prevValues, curValues) => prevValues.additional
!== curValues.additional }>
  {() => {
    return (
      <Form.Item name="other">
        <Input />
      </Form.Item>
    );
  }}
</Form.Item>
```

你可以参考[示例](#)查看具体使用场景。

messageVariables

你可以通过 `messageVariables` 修改 `Form.Item` 的默认验证信息。

```
<Form>
  <Form.Item
    messageVariables={{ another: 'good' }}
    label="user"
    rules={[{ required: true, message: '${another} is required' }]}
  >
    <Input />
  </Form.Item>
  <Form.Item
    messageVariables={{ label: 'good' }}
  >
```

```
label={<span>user</span>}
rules=[[{ required: true, message: '${label} is required' }]]
>
<Input />
</Form.Item>
</Form>
```

自 5.20.2 起, 当你希望不要转译 `${}` 时, 你可以通过 `\\${}` 来略过:

```
{ required: true, message: '${label} is convert, \\${label} is not convert'
}

// good is convert, ${label} is not convert
```

Form.List

为字段提供数组化管理。

参数	说明	类型	默认值	版本
children	渲染函数	(fields: Field[], operation: { add, remove, move }, meta: { errors }) => React.ReactNode	-	
initialValue	设置子元素默认值, 如果与 Form 的 initialValues 冲突则以 Form 为准	any[]	-	4.9.0
name	字段名, 支持数组。List 本身也是字段, 因而 getFieldsValue() 默认会返回 List 下所有值, 你可以通过 参数 改变这一行为	NamePath	-	
rules	校验规则, 仅支持自定义规则。需要配合 ErrorList 一同使用。	{ validator, message }[]	-	4.7.0

```
<Form.List>
  {(fields) =>
    fields.map((field) => (
      <Form.Item {...field}>
        <Input />
      </Form.Item>
    ))
  }
```

```
    }  
  </Form.List>
```

注意：Form.List 下的字段不应该配置 `initialValue`，你始终应该通过 Form.List 的 `initialValue` 或者 Form 的 `initialValues` 来配置。

operation

Form.List 渲染表单相关操作函数。

参数	说明	类型	默认值	版本
add	新增表单项	(defaultValue?: any, insertIndex?: number) => void	insertIndex	4.6.0
move	移动表单项	(from: number, to: number) => void	-	
remove	删除表单项	(index: number number[]) => void	number[]	4.5.0

Form.ErrorList

4.7.0 新增。错误展示组件，仅限配合 Form.List 的 rules 一同使用。参考[示例](#)。

参数	说明	类型	默认值
errors	错误列表	ReactNode[]	-

Form.Provider

提供表单间联动功能，其下设置 `name` 的 Form 更新时，会自动触发对应事件。查看[示例](#)。

参数	说明	类型	默认值
onFormChange	子表单字段更新时触发	function(formName: string, info: { changedFields, forms })	-
onFormFinish	子表单提交时触发	function(formName: string, info: { values, forms })	-

```
<Form.Provider  
  onFormFinish={(name) => {  
    if (name === 'form1') {  
      // Do something...  
    }  
  }}  
>
```

```

>
<Form name="form1">...</Form>
<Form name="form2">...</Form>
</Form.Provider>

```

FormInstance

名称	说明	类型	版本
getFieldError	获取对应字段名的错误信息	(name: NamePath) => string[]	
getFieldInstance	获取对应字段实例	(name: NamePath) => any	4.4.0
getFieldsError	获取一组字段名对应的错误信息，返回为数组形式	(nameList?: NamePath []) => FieldError[]	
getFieldsValue	获取一组字段名对应的值，会按照对应结构返回。默认返回现存字段值，当调用 <code>getFieldsValue(true)</code> 时返回所有值	GetFieldsValue	
getFieldValue	获取对应字段名的值	(name: NamePath) => any	
isFieldsTouched	检查一组字段是否被用户操作过， <code>allTouched</code> 为 <code>true</code> 时检查是否所有字段都被操作过	(nameList?: NamePath [], allTouched?: boolean) => boolean	
isFieldTouched	检查对应字段是否被用户操作过	(name: NamePath) => boolean	
isFieldValidating	检查对应字段是否正在校验	(name: NamePath) => boolean	
resetFields	重置一组字段到 <code>initialValues</code>	(fields?: NamePath []) => void	
scrollToField	滚动到对应字段位置	(name: NamePath , options: ScrollOptions { focus: boolean }) => void	focus: 5.24.0
setFields	设置一组字段状态	(fields: FieldData []) => void	

setFieldValue	设置表单的值（该值将直接传入 form store 中并且重置错误信息。如果你不希望传入对象被修改，请克隆后传入）	(name: NamePath , value: any) => void	4.22.0
setFieldsValue	设置表单的值（该值将直接传入 form store 中并且重置错误信息。如果你不希望传入对象被修改，请克隆后传入）。如果你只想修改 Form.List 中单项值，请通过 setFieldValue 进行指定	(values) => void	
submit	提交表单，与点击 submit 按钮效果相同	() => void	
validateFields	触发表单验证，设置 recursive 时会递归校验所有包含的路径	(nameList?: NamePath [], config?: ValidateConfig) => Promise	

validateFields

```
export interface ValidateConfig {
  // 5.5.0 新增。仅校验内容而不会将错误信息展示到 UI 上。
  validateOnly?: boolean;
  // 5.9.0 新增。对提供的 `nameList` 与其子路径进行递归校验。
  recursive?: boolean;
  // 5.11.0 新增。校验 dirty 的字段 (touched + validated)。
  // 使用 `dirty` 可以很方便的仅校验用户操作过和被校验过的字段。
  dirty?: boolean;
}
```

返回示例：

```
validateFields()
  .then((values) => {
    /*
    values:
    {
      username: 'username',
      password: 'password',
    }
    */
  })
  .catch((errorInfo) => {
    /*
    errorInfo:
    {
```

```

        values: {
            username: 'username',
            password: 'password',
        },
        errorFields: [
            { name: ['password'], errors: ['Please input your Password!'] },
        ],
        outOfDate: false,
    }
    */
});

```

Hooks

Form.useForm

```
type Form.useForm = (): [FormInstance]
```

创建 Form 实例，用于管理所有数据状态。

Form.useFormInstance

```
type Form.useFormInstance = (): FormInstance
```

4.20.0 新增，获取当前上下文正在使用的 Form 实例，常见于封装子组件消费无需透传 Form 实例：

```

const Sub = () => {
    const form = Form.useFormInstance();

    return <Button onClick={() => form.setFieldsValue({})} />;
};

export default () => {
    const [form] = Form.useForm();

    return (
        <Form form={form}>
            <Sub />
        </Form>
    );
};

```

Form.useWatch

```
type Form.useWatch = (namePath: NamePath | (selector: (values: Store)) => any,
formInstance?: FormInstance | WatchOptions): Value
```

5.12.0 新增 selector

用于直接获取 form 中字段对应的值。通过该 Hooks 可以与诸如 `useSWR` 进行联动从而降低维护成本：

```
const Demo = () => {
  const [form] = Form.useForm();
  const userName = Form.useWatch('username', form);

  const { data: options } = useSWR(`/api/user/${userName}`, fetcher);

  return (
    <Form form={form}>
      <Form.Item name="username">
        <AutoComplete options={options} />
      </Form.Item>
    </Form>
  );
};
```

如果你的组件被包裹在 `Form.Item` 内部，你可以省略第二个参数，`Form.useWatch` 会自动找到上层最近的 `FormInstance`。

`useWatch` 默认只监听在 Form 中注册的字段，如果需要监听非注册字段，可以通过配置 `preserve` 进行监听：

```
const Demo = () => {
  const [form] = Form.useForm();

  const age = Form.useWatch('age', { form, preserve: true });
  console.log(age);

  return (
    <div>
      <Button onClick={() => form.setFieldValue('age', 2)}>Update</Button>
      <Form form={form}>
        <Form.Item name="name">
          <Input />
        </Form.Item>
      </Form>
    </div>
  );
};
```

Form.Item.useStatus

```
type Form.Item.useStatus = (): { status: ValidateStatus | undefined, errors:
ReactNode[], warnings: ReactNode[] }
```

4.22.0 新增，可用于获取当前 Form.Item 的校验状态，如果上层没有 Form.Item，`status` 将会返回 `undefined`。5.4.0 新增 `errors` 和 `warnings`，可用于获取当前 Form.Item 的错误信息和警告信息：

```
const CustomInput = ({ value, onChange }) => {
  const { status, errors } = Form.Item.useStatus();
  return (
    <input
      value={value}
      onChange={onChange}
      className={`custom-input-${status}`}
      placeholder={(errors.length && errors[0]) || ''}
    />
  );
};

export default () => (
  <Form>
    <Form.Item name="username">
      <CustomInput />
    </Form.Item>
  </Form>
);
```

与其他获取数据的方式的区别

Form 仅会对变更的 Field 进行刷新，从而避免完整的组件刷新可能引发的性能问题。因而你无法在 render 阶段通过 `form.getFieldsValue` 来实时获取字段值，而 `useWatch` 提供了一种特定字段访问的方式，从而使得在当前组件中可以直接消费字段的值。同时，如果为了更好的渲染性能，你可以通过 Field 的 `renderProps` 仅更新需要更新的部分。而当当前组件更新或者 `effect` 都不需要消费字段值时，则可以通过 `onValuesChange` 将数据抛出，从而避免组件更新。

Interface

NamePath

```
string | number | (string | number)[]
```

GetFieldsValue

`getFieldsValue` 提供了多种重载方法：

`getFieldsValue(nameList?: true | NamePath[], filterFunc?: FilterFunc)`

当不提供 `nameList` 时，返回所有注册字段，这也包含 List 下所有的值（即便 List 下没有绑定 Item）。

当 `nameList` 为 `true` 时，返回 store 中所有的值，包含未注册字段。例如通过 `setFieldsValue` 设置了不存在的 Item 的值，也可以通过 `true` 全部获取。

当 `nameList` 为数组时，返回规定路径的值。需要注意的是，`nameList` 为嵌套数组。例如你需要某路径值应该如下：

```
// 单个路径
form.getFieldsValue(['user', 'age']);

// 多个路径
form.getFieldsValue([
  ['user', 'age'],
  ['preset', 'account'],
]);
```

getFieldsValue({ strict?: boolean, filter?: FilterFunc })

5.8.0 新增接受配置参数。当 `strict` 为 `true` 时会仅匹配 `Item` 的值。例如 `{ list: [{ bamboo: 1, little: 2 }] }` 中，如果 `List` 仅绑定了 `bamboo` 字段，那么 `getFieldsValue({ strict: true })` 会只获得 `{ list: [{ bamboo: 1 }] }`。

FilterFunc

用于过滤一些字段值，`meta` 会返回字段相关信息。例如可以用来获取仅被用户修改过的值等等。

```
type FilterFunc = (meta: { touched: boolean; validating: boolean }) =>
boolean;
```

FieldData

名称	说明	类型
errors	错误信息	string[]
warnings	警告信息	string[]
name	字段名称	NamePath[]
touched	是否被用户操作过	boolean
validating	是否正在校验	boolean
value	字段对应值	any

Rule

Rule 支持接收 `object` 进行配置，也支持 `function` 来动态获取 `form` 的数据：

```
type Rule = RuleConfig | ((form: FormInstance) => RuleConfig);
```

名称	说明	类型	版本
----	----	----	----

defaultField	仅在 type 为 array 类型时有效，用于指定数组元素的校验规则	rule	
enum	是否匹配枚举中的值（需要将 type 设置为 enum）	any[]	
fields	仅在 type 为 array 或 object 类型时有效，用于指定子元素的校验规则	Record<string, rule >	
len	string 类型时为字符串长度；number 类型时为确定数字；array 类型时为数组长度	number	
max	必须设置 type：string 类型为字符串最大长度；number 类型时为最大值；array 类型时为数组最大长度	number	
message	错误信息，不设置时会通过 模板 自动生成	string ReactElement	
min	必须设置 type：string 类型为字符串最小长度；number 类型时为最小值；array 类型时为数组最小长度	number	
pattern	正则表达式匹配	RegExp	
required	是否为必选字段	boolean	
transform	将字段值转换成目标值后进行校验	(value) => any	
type	类型，常见有 string number boolean url email。更多请参考 此处	string	
validateTrigger	设置触发验证时机，必须是 Form.Item 的 validateTrigger 的子集	string string[]	
validator	自定义校验，接收 Promise 作为返回值。 示例 参考	(rule , value) => Promise	
warningOnly	仅警告，不阻塞表单提交	boolean	4.17.0
whitespace	如果字段仅包含空格则校验不通过，只在 type: 'string' 时生效	boolean	

WatchOptions

名称	说明	类型	默认值	版本
form	指定 Form 实例	FormInstance	当前 context 中的 Form	5.4.0

preserve	是否监视没有对应的 Form.Item 的字段	boolean	false	5.4.0
----------	-------------------------	---------	-------	-------

主题变量 (Design Token)

FAQ

Switch、Checkbox 为什么不能绑定数据？

Form.Item 默认绑定值属性到 `value` 上，而 Switch、Checkbox 等组件的值属性为 `checked`。你可以通过 `valuePropName` 来修改绑定的值属性。

```
<Form.Item name="fieldA" valuePropName="checked">
  <Switch />
</Form.Item>
```

name 为数组时的转换规则？

当 `name` 为数组时，会按照顺序填充路径。当存在数字且 form store 中没有该字段时会自动转变成数组。因而如果需要数组为 key 时请使用 string 如： `['1', 'name']`。

为何在 Modal 中调用 form 控制台会报错？

Warning: Instance created by `useForm` is not connect to any Form element. Forget to pass `form` prop?

这是因为你在调用 form 方法时，Modal 还未初始化导致 form 没有关联任何 Form 组件。你可以通过给 Modal 设置 `forceRender` 将其预渲染。示例点击[此处](#)。

为什么 Form.Item 下的子组件 `defaultValue` 不生效？

当你为 Form.Item 设置 `name` 属性后，子组件会转为受控模式。因而 `defaultValue` 不会生效。你需要在 Form 上通过 `initialValues` 设置默认值。

为什么第一次调用 `ref` 的 Form 为空？

`ref` 仅在节点被加载时才会被赋值，请参考 React 官方文档：<https://reactjs.org/docs/refs-and-the-dom.html#accessing-refs>

为什么 `resetFields` 会重新 mount 组件？

`resetFields` 会重置整个 Field，因而其子组件也会重新 mount 从而消除自定义组件可能存在的副作用（例如异步数据、状态等等）。

Form 的 `initialValues` 与 Item 的 `initialValue` 区别？

在大部分场景下，我们总是推荐优先使用 Form 的 `initialValues`。只有存在动态字段时你才应该使用 Item 的 `initialValue`。默认值遵循以下规则：

1. Form 的 `initialValues` 拥有最高优先级
2. Field 的 `initialValue` 次之 *. 多个同 `name` Item 都设置 `initialValue` 时, 则 Item 的 `initialValue` 不生效

为什么 `getFieldsValue` 在初次渲染的时候拿不到值?

`getFieldsValue` 默认返回收集的字段数据, 而在初次渲染时 `Form.Item` 节点尚未渲染, 因而无法收集到数据。你可以通过 `getFieldsValue(true)` 来获取所有字段数据。

为什么 `setFieldsValue` 设置字段为 `undefined` 时, 有的组件不会重置为空?

在 React 中, `value` 从确定值改为 `undefined` 表示从受控变为非受控, 因而不会重置展示值 (但是 Form 中的值确实已经改变)。你可以通过 HOC 改变这一逻辑:

```
const MyInput = ({
  // 强制保持受控逻辑
  value = '',
  ...rest
}) => <input value={value} {...rest} />;

<Form.Item name="my">
  <MyInput />
</Form.Item>;
```

为什么字段设置 `rules` 后更改值 `onFieldsChange` 会触发三次?

字段除了本身的值变化外, 校验也是其状态之一。因而在触发字段变化会经历以下几个阶段:

1. Trigger value change
2. Rule validating
3. Rule validated

在触发过程中, 调用 `isFieldValidating` 会经历 `false > true > false` 的变化过程。

为什么 `Form.List` 不支持 `label` 还需要使用 `ErrorList` 展示错误?

`Form.List` 本身是 `renderProps`, 内部样式非常自由。因而默认配置 `label` 和 `error` 节点很难与之配合。如果你需要 `antd` 样式的 `label`, 可以通过外部包裹 `Form.Item` 来实现。

为什么 `Form.Item` 的 `dependencies` 对 `Form.List` 下的字段没有效果?

`Form.List` 下的字段需要包裹 `Form.List` 本身的 `name`, 比如:

```
<Form.List name="users">
  {(fields) =>
    fields.map((field) => (
      <React.Fragment key={field.key}>
        <Form.Item name={[field.name, 'name']} {...someRest1} />
        <Form.Item name={[field.name, 'age']} {...someRest1} />
      </React.Fragment>
    ))
  }
</Form.List>
```



```
    ))
  }
</Form.List>
```

依赖则是: `['users', 0, 'name']`

为什么 `normalize` 不能是异步方法?

React 中异步更新会导致受控组件交互行为异常。当用户交互触发 `onChange` 后, 通过异步改变值会导致组件 `value` 不会立刻更新, 使得组件呈现假死状态。如果你需要异步触发变更, 请通过自定义组件实现内部异步状态。

`scrollToFirstError` 和 `scrollToField` 失效?

1. 使用了自定义表单控件

类似问题: [#28370](#) [#27994](#)

从 `5.17.0` 版本开始, 滑动操作将优先使用表单控件元素所转发的 `ref` 元素。因此, 在考虑自定义组件支持校验滚动时, 请优先考虑将其转发给表单控件元素。

滚动依赖于表单控件元素上绑定的 `id` 字段, 如果自定义控件没有将 `id` 赋到正确的元素上, 这个功能将失效。你可以参考这个 [codesandbox](#)。

2. 页面内有多个表单

页面内如果有多个表单, 且存在表单项 `name` 重复, 表单滚动定位可能会查找到另一个表单的同名表单项上。需要给表单 `Form` 组件设置不同的 `name` 以区分。

继上, 为何不通过 `ref` 绑定元素?

当自定义组件不支持 `ref` 时, `Form` 无法获取子元素真实 DOM 节点, 而通过包裹 `Class Component` 调用 `findDOMNode` 会在 `React Strict Mode` 下触发警告。因而我们使用 `id` 来进行元素定位。

`setFieldsValue` 不会触发 `onFieldsChange` 和 `onValuesChange` ?

是的, `change` 事件仅当用户交互才会触发。该设计是为了防止在 `change` 事件中调用 `setFieldsValue` 导致的循环问题。如果仅仅需要组件内消费, 可以通过 `useWatch` 或者 `Field.renderProps` 来实现。

为什么 `Form.Item` 嵌套子组件后, 不更新表单值?

`Form.Item` 在渲染时会注入 `value` 与 `onChange` 事件给子元素, 当你的字段组件被包裹时属性将无法传递。所以下列代码是不会生效的:

```
<Form.Item name="input">
  <div>
    <h3>I am a wrapped Input</h3>
    <Input />
  </div>
</Form.Item>
```

你可以通过 HOC 自定义组件形式来解决这个问题：

```
const MyInput = (props) => (  
  <div>  
    <h3>I am a wrapped Input</h3>  
    <Input {...props} />  
  </div>  
);  
  
<Form.Item name="input">  
  <MyInput />  
</Form.Item>;
```

为什么表单点击 label 会更改组件状态？

相关 issue: [#47031](#), [#43175](#), [#52152](#)

表单 label 使用 [HTML label](#) 元素来包裹表单控件，从而实现点击 label 时聚焦到对应控件。这是 label 元素的原生行为，用于提升可访问性和用户体验，这种标准交互模式能让用户更容易操作表单控件。如果你不希望这种行为，可通过 `htmlFor={null}` 属性解除关联，通常不建议这样做。

```
- <Form.Item name="switch" label="Switch">  
+ <Form.Item name="switch" label="Switch" htmlFor={null}>  
  <Switch />  
</Form.Item>
```

有更多参考文档吗？

- 你可以阅读 [《antd v4 Form 使用心得》](#) 获得一些使用帮助以及建议。
- 想在 DatePicker、Switch 也使用 before、after？可以参考 [《如何优雅的对 Form.Item 的 children 增加 before、after》](#)。
- 优雅的 Form + Modal 结合使用方案 [《如何优雅的使用 Form + Modal》](#)。