

zh-CN

带单元格编辑功能的表格。当配合 `shouldCellUpdate` 使用时请注意[闭包问题](#)。

en-US

Table with editable cells. When work with `shouldCellUpdate`, please take care of [closure](#).

```
import React, { useContext, useState, useEffect, useRef } from 'react';
import { Table, Input, Button, Popconfirm, Form, InputRef } from 'antd';
import { FormInstance } from 'antd/lib/form';

const EditableContext = React.createContext<FormInstance<any> | null>(null);

interface Item {
  key: string;
  name: string;
  age: string;
  address: string;
}

interface EditableRowProps {
  index: number;
}

const EditableRow: React.FC<EditableRowProps> = ({ index, ...props }) => {
  const [form] = Form.useForm();
  return (
    <Form form={form} component={false}>
      <EditableContext.Provider value={form}>
        <tr {...props} />
      </EditableContext.Provider>
    </Form>
  );
};

interface EditableCellProps {
  title: React.ReactNode;
  editable: boolean;
  children: React.ReactNode;
  dataIndex: keyof Item;
  record: Item;
  handleSave: (record: Item) => void;
}

const EditableCell: React.FC<EditableCellProps> = ({
  title,
  editable,
  children,
  dataIndex,
  record,

```

```

    handleSave,
    ...restProps
  }) => {
    const [editing, setEditing] = useState(false);
    const inputRef = useRef<InputRef>(null);
    const form = useContext(EditableViewContext)!;

    useEffect(() => {
      if (editing) {
        inputRef.current!.focus();
      }
    }, [editing]);

    const toggleEdit = () => {
      setEditing(!editing);
      form.setFieldsValue({ [dataIndex]: record[dataIndex] });
    };

    const save = async () => {
      try {
        const values = await form.validateFields();

        toggleEdit();
        handleSave({ ...record, ...values });
      } catch (errInfo) {
        console.log('Save failed:', errInfo);
      }
    };

    let childNode = children;

    if (editable) {
      childNode = editing ? (
        <Form.Item
          style={{ margin: 0 }}
          name={dataIndex}
          rules={[
            {
              required: true,
              message: `_${title} is required.`,
            },
          ]}
        >
          <Input ref={inputRef} onPressEnter={save} onBlur={save} />
        </Form.Item>
      ) : (
        <div className="editable-cell-value-wrap" style={{ paddingRight: 24 }}
          onClick={toggleEdit}>
            {children}
          </div>
      );
    }
  }
}

```

```

    return <td {...restProps}>{childNode}</td>;
};

type EditableTableProps = Parameters<typeof Table>[0];

interface DataType {
  key: React.Key;
  name: string;
  age: string;
  address: string;
}

interface EditableTableState {
  dataSource: DataType[];
  count: number;
}

type ColumnTypes = Exclude<EditableTableProps['columns'], undefined>;

class EditableTable extends React.Component<EditableTableProps, EditableTableState> {
  columns: (ColumnTypes[number] & { editable?: boolean; dataIndex: string })[];

  constructor(props: EditableTableProps) {
    super(props);

    this.columns = [
      {
        title: 'name',
        dataIndex: 'name',
        width: '30%',
        editable: true,
      },
      {
        title: 'age',
        dataIndex: 'age',
      },
      {
        title: 'address',
        dataIndex: 'address',
      },
      {
        title: 'operation',
        dataIndex: 'operation',
        render: (_, record: { key: React.Key }) =>
          this.state.dataSource.length >= 1 ? (
            <Popconfirm title="Sure to delete?" onConfirm={() =>
              this.handleDelete(record.key)}>
              <a>Delete</a>
            </Popconfirm>
          ) : null,
      }
    ];
  }
}

```

```

    },
  ];

  this.state = {
    dataSource: [
      {
        key: '0',
        name: 'Edward King 0',
        age: '32',
        address: 'London, Park Lane no. 0',
      },
      {
        key: '1',
        name: 'Edward King 1',
        age: '32',
        address: 'London, Park Lane no. 1',
      },
    ],
    count: 2,
  };
}

handleDelete = (key: React.Key) => {
  const dataSource = [...this.state.dataSource];
  this.setState({ dataSource: dataSource.filter(item => item.key !== key) });
};

handleAdd = () => {
  const { count, dataSource } = this.state;
  const newData: DataType = {
    key: count,
    name: `Edward King ${count}`,
    age: '32',
    address: `London, Park Lane no. ${count}`,
  };
  this.setState({
    dataSource: [...dataSource, newData],
    count: count + 1,
  });
};

handleSave = (row: DataType) => {
  const newData = [...this.state.dataSource];
  const index = newData.findIndex(item => row.key === item.key);
  const item = newData[index];
  newData.splice(index, 1, {
    ...item,
    ...row,
  });
  this.setState({ dataSource: newData });
};

```

```

render() {
  const { dataSource } = this.state;
  const components = {
    body: {
      row: EditableRow,
      cell: EditableCell,
    },
  };
  const columns = this.columns.map(col => {
    if (!col.editable) {
      return col;
    }
    return {
      ...col,
      onCell: (record: DataType) => ({
        record,
        editable: col.editable,
        dataIndex: col.dataIndex,
        title: col.title,
        handleSave: this.handleSave,
      })),
    };
  });
  return (
    <div>
      <Button onClick={this.handleAdd} type="primary" style={{ marginBottom: 16 }}>
        Add a row
      </Button>
      <Table
        components={components}
        rowClassName={() => 'editable-row'}
        bordered
        dataSource={dataSource}
        columns={columns as ColumnTypes}
      />
    </div>
  );
}
}

export default () => <EditableTable />;

```

```

.editable-cell {
  position: relative;
}

.editable-cell-value-wrap {
  padding: 5px 12px;
  cursor: pointer;
}

```

```
.editable-row: hover .editable-cell-value-wrap {  
  padding: 4px 11px;  
  border: 1px solid #d9d9d9;  
  border-radius: 2px;  
}  
  
[data-theme='dark'] .editable-row: hover .editable-cell-value-wrap {  
  border: 1px solid #434343;  
}
```