

A table displays rows of data.

## When To Use

- To display a collection of structured data.
- To sort, search, paginate, filter data.

## How To Use

Specify `dataSource` of Table as an array of data.

```
const dataSource = [
  {
    key: '1',
    name: 'Mike',
    age: 32,
    address: '10 Downing Street',
  },
  {
    key: '2',
    name: 'John',
    age: 42,
    address: '10 Downing Street',
  },
];

const columns = [
  {
    title: 'Name',
    dataIndex: 'name',
    key: 'name',
  },
  {
    title: 'Age',
    dataIndex: 'age',
    key: 'age',
  },
  {
    title: 'Address',
    dataIndex: 'address',
    key: 'address',
  },
];

<Table dataSource={dataSource} columns={columns} />;
```

## API

### Table

Property	Description	Type	Default	Version
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bordered	Whether to show all table borders	boolean	false	
columns	Columns of table	<a href="#">ColumnsType[]</a>	-	
components	Override default table elements	<a href="#">TableComponents</a>	-	
dataSource	Data record array to be displayed	object[]	-	
expandable	Config expandable content	<a href="#">expandable</a>	-	
footer	Table footer renderer	function(currentPageData)	-	
getPopupContainer	The render container of dropdowns in table	(triggerNode) => HTMLElement	() => TableHtmlElement	
loading	Loading status of table	boolean   <a href="#">Spin Props</a>	false	
locale	The i18n text including filter, sort, empty text, etc	object	<a href="#">Default Value</a>	
pagination	Config of pagination. You can ref table pagination <a href="#">config</a> or full <a href="#">pagination</a> document, hide it by setting it to <code>false</code>	object	-	
rowClassName	Row's className	function(record, index): string	-	
rowKey	Row's unique key, could be a string or function that	string   function(record): string	key	

	returns a string			
rowSelection	Row selection <a href="#">config</a>	object	-	
scroll	Whether the table can be scrollable, <a href="#">config</a>	object	-	
showHeader	Whether to show table header	boolean	true	
showSorterTooltip	The header show next sorter direction tooltip. It will be set as the property of Tooltip if its type is object	boolean   <a href="#">Tooltip.props</a>	true	
size	Size of table	default   middle   small	default	
sortDirections	Supported sort way, could be ascend, descend	Array	[ascend, descend]	
sticky	Set sticky header and scroll bar	boolean   {offsetHeader?: number, offsetScroll?: number, getContainer?: () => HTMLDivElement}	-	4.6.0 (getContainer: 4.7.0)
summary	Summary content	(currentData) => ReactNode	-	
tableLayout	The <a href="#">table-layout</a> attribute of table element	-   auto   fixed	- <hr/> fixed when header/columns are fixed, or using column.ellipsis	
title	Table title renderer	function(currentPageData)	-	
onChange	Callback executed when	function(pagination, filters, sorter, extra: { currentDataSource: [],	-	

	pagination, filters or sorter is changed	action: paginate   sort   filter ))		
onHeaderRow	Set props on per header row	function(columns, index)	-	
onRow	Set props on per row	function(record, index)	-	

**onRow usage**

Same as `onRow` `onHeaderRow` `onCell` `onHeaderCell`

```
<Table
  onRow={(record, rowIndex) => {
    return {
      onClick: event => {}, // click row
      onDoubleClick: event => {}, // double click row
      onContextMenu: event => {}, // right button click row
      onMouseEnter: event => {}, // mouse enter row
      onMouseLeave: event => {}, // mouse leave row
    };
  }}
  onHeaderRow={(columns, index) => {
    return {
      onClick: () => {}, // click header row
    };
  }}
/>
```

**Column**

One of the Table `columns` prop for describing the table's columns, Column has the same API.

Property	Description	Type	Default	Versic
align	The specify which way that column is aligned	left   right   center	left	
className	The className of this column	string	-	
colSpan	Span of this column's title	number	-	
dataIndex	Display field of the data record, support nest path by string array	string   string[]	-	
defaultFilteredValue	Default filtered values	string[]	-	

defaultSortOrder	Default order of sorted values	ascend   descend	-	
editable	Whether column can be edited	boolean	false	
ellipsis	The ellipsis cell content, not working with sorter and filters for now. tableLayout would be fixed when ellipsis is true Or { showTitle?: boolean }	boolean   {showTitle?: boolean }	false	showTitle 4.3.0
filterDropdown	Customized filter overlay	ReactNode   (props: <a href="#">FilterDropdownProps</a> ) => ReactNode	-	
filterDropdownVisible	Whether filterDropdown is visible	boolean	-	
filtered	Whether the dataSource is filtered	boolean	false	
filteredValue	Controlled filtered value, filter icon will highlight	string[]	-	
filterIcon	Customized filter icon	ReactNode   (filtered: boolean) => ReactNode	-	
filterMultiple	Whether multiple filters can be selected	boolean	true	
filterMode	To specify the filter interface	'menu'   'tree'	'menu'	4.17.0
filterSearch	Whether to be searchable for filter menu	boolean   function(input, record):boolean	false	boolean:4 function:4
filters	Filter menu config	object[]	-	
fixed	(IE not support) Set column to be fixed: true(same as left) 'left' 'right'	boolean   string	false	
key	Unique key of this column, you can ignore this prop if	string	-	

	you've set a unique <code>dataIndex</code>			
render	Renderer of the table cell. The return value should be a <code>ReactNode</code>	<code>function(text, record, index) {}</code>	-	
responsive	The list of breakpoints at which to display this column. Always visible if not set.	<a href="#">Breakpoint[]</a>	-	4.2.0
shouldCellUpdate	Control cell render logic	<code>(record, prevRecord) =&gt; boolean</code>	-	4.3.0
showSorterTooltip	If header show next sorter direction tooltip, override <code>showSorterTooltip</code> in table	boolean   <a href="#">Tooltip props</a>	true	
sortDirections	Supported sort way, override <code>sortDirections</code> in <code>Table</code> , could be <code>ascend</code> , <code>descend</code>	Array	<code>[ascend, descend]</code>	
sorter	Sort function for local sort, see <a href="#">Array.sort</a> 's <code>compareFunction</code> . If you need sort buttons only, set to <code>true</code>	function   boolean	-	
sortOrder	Order of sorted values: <code>'ascend'</code> <code>'descend'</code> <code>false</code>	boolean   string	-	
title	Title of this column	<code>ReactNode</code>   <code>{ { sortOrder, sortColumn, filters } }</code> <code>=&gt; ReactNode</code>	-	
width	Width of this column ( <a href="#">width not working?</a> )	string   number	-	
onCell	Set props on per cell	<code>function(record, rowIndex)</code>	-	
onFilter	Function that determines if the row is displayed when filtered	<code>function(value, record) =&gt; boolean</code>	-	
onFilterDropdownVisibleChange	Callback executed when	<code>function(visible) {}</code>	-	

	filterDropdownVisible is changed			
onHeaderCell	Set props on per header cell	function(column)	-	

## ColumnGroup

Property	Description	Type	Default
title	Title of the column group	ReactNode	-

## pagination

Properties for pagination.

Property	Description	Type	Default
position	Specify the position of <code>Pagination</code> , could be <code>topLeft</code>   <code>topCenter</code>   <code>topRight</code>   <code>bottomLeft</code>   <code>bottomCenter</code>   <code>bottomRight</code>	Array	[ <code>bottomRight</code> ]

More about pagination, please check [Pagination](#) .

## expandable

Properties for expandable.

Property	Description	Type	Default	Version
childrenColumnName	The column contains children to display	string	children	
columnWidth	Set the width of the expand column	string   number	-	
defaultExpandAllRows	Expand all rows initially	boolean	false	
defaultExpandedRowKeys	Initial expanded row keys	string[]	-	
expandedRowClassName	Expanded row's className	function(record, index, indent): string	-	
expandedRowKeys	Current expanded row keys	string[]	-	
expandedRowRender	Expanded container render for each row	function(record, index, indent, expanded): ReactNode	-	
expandIcon	Customize row expand Icon. Ref <a href="#">example</a>	function(props): ReactNode	-	
expandRowByClick	Whether to expand row by clicking anywhere in	boolean	false	

	the whole row			
fixed	Whether the expansion icon is fixed. Optional <code>true</code> <code>left</code> <code>right</code>	boolean   string	false	4.16.0
indentSize	Indent size in pixels of tree data	number	15	
rowExpandable	Enable row can be expandable	(record) => boolean	-	
showExpandColumn	Show expand column	boolean	true	4.18.0
onExpand	Callback executed when the row expand icon is clicked	function(expanded, record)	-	
onExpandedRowsChange	Callback executed when the expanded rows change	function(expandedRows)	-	

## rowSelection

Properties for row selection.

Property	Description	Type	Default	Version
checkStrictly	Check table row precisely; parent row and children rows are not associated	boolean	true	4.4.0
columnTitle	Set the title of the selection column	ReactNode	-	
columnWidth	Set the width of the selection column	string   number	32px	
fixed	Fixed selection column on the left	boolean	-	
getCheckboxProps	Get Checkbox or Radio props	function(record)	-	
hideSelectAll	Hide the selectAll checkbox and custom selection	boolean	false	4.3.0
preserveSelectedRowKeys	Keep selection <code>key</code> even when it removed from <code>dataSource</code>	boolean	-	4.4.0
renderCell	Renderer of the table cell. Same as <code>render</code> in column	function(checked, record, index, originNode) {}	-	4.1.0



selectedRowKeys	Controlled selected row keys	string[]   number[]	[]	
selections	Custom selection <a href="#">config</a> , only displays default selections when set to <code>true</code>	object[]   boolean	-	
type	checkbox <b>or</b> radio	checkbox   radio	checkbox	
onChange	Callback executed when selected rows change	function(selectedRowKeys, selectedRows)	-	
onSelect	Callback executed when select/deselect one row	function(record, selected, selectedRows, nativeEvent)	-	
onSelectAll	Callback executed when select/deselect all rows	function(selected, selectedRows, changeRows)	-	
onSelectInvert	Callback executed when row selection is inverted	function(selectedRowKeys)	-	
onSelectNone	Callback executed when row selection is cleared	function()	-	

## scroll

Property	Description	Type	Default
scrollToFirstRowOnChange	Whether to scroll to the top of the table when paging, sorting, filtering changes	boolean	-
x	Set horizontal scrolling, can also be used to specify the width of the scroll area, could be number, percent value, true and <a href="#">'max-content'</a>	string   number   true	-
y	Set vertical scrolling, can also be used to specify the height of the scroll area, could be string or number	string   number	-

## selection

Property	Description	Type	Default
key	Unique key of this selection	string	-
text	Display text of this selection	ReactNode	-
onSelect	Callback executed when this selection is clicked	function(changeableRowKeys)	-

## Using in TypeScript

```
import { Table } from 'antd';
import { ColumnsType } from 'antd/es/table';

interface User {
  key: number;
  name: string;
}

const columns: ColumnsType<User> = [
  {
    key: 'name',
    title: 'Name',
    dataIndex: 'name',
  },
];

const data: User[] = [
  {
    key: 0,
    name: 'Jack',
  },
];

export default () => (
  <>
    <Table<User> columns={columns} dataSource={data} />
    /* JSX style usage */
    <Table<User> dataSource={data}>
      <Table.Column<User> key="name" title="Name" dataIndex="name" />
    </Table>
  </>
);
```

Here is the [CodeSandbox for TypeScript](#).

## Note

According to the [React documentation](#), every child in an array should be assigned a unique key. The values inside the Table's `dataSource` and `columns` should follow this rule. By default, `dataSource[i].key` will be treated as the key value for `dataSource`.

Warning: Each child in an array or iterator should have a unique "key" prop. Check the render method of `Table`. See <https://fb.me/react-warning-keys> for more information.

If `dataSource[i].key` is not provided, then you should specify the primary key of `dataSource` value via `rowKey`, as shown below. If not, warnings like the one above will show in browser console.

```
// primary key is uid
return <Table rowKey="uid" />;
```

```
// or
return <Table rowKey={record => record.uid} />;
```

## Migrate to v4

Table removes `onRowClick`, `onRowDoubleClick`, `onRowMouseEnter`, `onRowMouseLeave` and some other api which is already deprecated in v3. If you only use api listing in official document, that's OK.

Besides, the breaking change is changing `dataIndex` from nest string path like `user.age` to string array path like `['user', 'age']`. This help to resolve developer should additional work on the field which contains `.`.

## FAQ

### How to hide pagination when single page or no data?

You can set `hideOnSinglePage` with `pagination` prop.

### Table will return to first page when filter data.

Table total page count usually reduce after filter data, we defaultly return to first page in case of current page is out of filtered results.

You may need to keep current page after filtering when fetch data from remote service, please check [this demo](#) as workaround.

Also you can use the action from extra param to determine when return to first page.

### Why Table pagination show size changer?

In order to improve user experience, Pagination show size changer by default when `total > 50` since `4.1.0`. You can set `showSizeChanger=false` to disable this feature.

### Why Table fully render when state change?

Table can not tell what state used in `columns.render`, so it always need fully render to avoid sync issue. You can use `column.shouldCellUpdate` to control render.

### How to handle fixed column display over the mask layout?

Fixed column use `z-index` to make it over other columns. You will find sometime fixed columns also over your mask layout. You can set `z-index` on your mask layout to resolve.