

HTML Elements

a abbr address area article aside audio b base bdi bdo big blockquote body br button canvas caption cite code col colgroup data datalist dd del details dfn dialog div dl dt em embed fieldset figcaption figure footer form h1 h2 h3 h4 h5 h6 head header hgroup hr html i iframe img input ins kbd keygen label legend li link main map mark menu menuterm meta meter nav noscript object ol optgroup option output p param picture pre progress q rp rt ruby s samp script secvbytion select small source span strong style sub summary sup table tbody td textarea tfoot th tthead time title tr track u ul var video wb

HTML Attributes

data -\* aria -\* accept acceptCharset accessKey action allowFullScreen allowTransparency alt async autoComplete autoFocus autoPlay capture cellPadding cellSpacing challenge charSet checked classID className colSpan cols content contentEditable contextMenu controls coords crossOrigin data dateTime default defer dir disabled download draggable encType form formAction formEncType formMethod formNoValidate formTarget frameBorder headers height hidden high href hrefLang htmlFor httpEquiv icon id inputMode integrity is keyParams keyType kind label lang list loop low manifest marginHeight marginWidth max maxLength media mediaGroup method min minLength multiple muted name noValidate nonce open optimum pattern placeholder poster preload radioGroup readOnly rel required reversed role rowSpan rows sandbox scope scoped scrolling seamless selected shape size sizes span spellCheck src srcDoc srcLang srcSet start step style summary tabIndex target title type useMap value width wmode wrap

RDFa: about datatype inlist prefix property resource typeof vocab

SVG Elements

circle clipPath defs ellipse g image line linearGradient mask path pattern polygon polyline radialGradient rect stop svg text tspan

SVG Attributes

clipPath cx cy d dx dy fill fillOpacity fontFamily fontSize fx fy gradientTransform gradientUnits markerEnd markerMid markerStart offset opacity patternContentUnits patternUnits points preserveAspectRatio r rx ry spreadMethod stopColor stopOpacity stroke strokeDasharray strokeLinecap strokeOpacity strokeWidth textAnchor transform version viewBox x1 x2 x xlinkActvuate xlinkArcrole xlinkHref xlinkRole xlinkShow xlinkTitle xlinkType xmlBase xmlLang xmlSpace y1 y2 y

import React from 'react'

class <i>ExampleComponent</i> extends <i>React.Component</i> { ... } ⇒ <i>ReactClass</i>	Create a component class, given a specification. A component implements a render method which returns one single child.
<i>React.createClass</i> ( <i>REACTCOMPONENT SPECIFICATION</i> ) ⇒ <i>ReactClass</i>	Equivalent to above ES6 class notation. <b>NOTE:</b> Prefer the above ES6 usage
<i>React.createElement</i> ( <i>HTMLTAG STRING REACTCLASS</i> , { <i>PROPS</i> }?, [ <i>CHILDREN...</i> ]?) ⇒ <i>ReactElement</i>	Create and return a new <i>ReactElement</i> of the given type.
↳ JSX nodes desugar into createElement() calls, e.g. <Node /> becomes React.createElement(Node ...)	
<i>React.cloneElement</i> ( <i>REACTELEMENT</i> , { <i>PROPS</i> }?, [ <i>CHILDREN...</i> ]?) ⇒ <i>ReactElement</i>	Clone and return a new <i>ReactElement</i> using element as the starting point with shallow merged props.
<i>React.isValidElement</i> ( <i>REACTELEMENT</i> ) ⇒ <i>Boolean</i>	Verifies the object is a <i>ReactElement</i> .

import ReactDOM from 'react-dom'

<i>ReactDOM.render</i> ( <i>REACTELEMENT</i> , <i>DOMELEMENT</i> , <i>CALLBACK?</i> ) ⇒ <i>ReactComponent</i>	Render a <i>ReactElement</i> into the DOM into supplied <i>DOMELEMENT</i> .
↳ ReactDOM.render(<ExampleComponent />, document.getElementById("react-app"))	
<i>ReactDOM.findDOMNode</i> ( <i>REACTCOMPONENT</i> ) ⇒ <i>DOMELEMENT</i>	If this component has been mounted into the DOM, this returns the corresponding native browser DOM element.
<i>ReactDOM.unmountComponentAtNode</i> ( <i>DOMELEMENT</i> ) ⇒ <i>Boolean</i>	Remove a mounted <i>React</i> component from the DOM and clean up its event handlers and state.
import ReactDOMServer from 'react-dom/server'	
<i>ReactDOMServer.renderToString</i> ( <i>REACTELEMENT</i> ) ⇒ <i>String</i>	Render a <i>ReactElement</i> to its initial HTML.
<i>ReactDOMServer.renderToStaticMarkup</i> ( <i>REACTELEMENT</i> ) ⇒ <i>String</i>	Similar to renderToString, except this doesn't create extra DOM attributes such as data-react-id, that React uses internally.

Component API *ExampleComponent* extends *React.Component* {...}

<i>setState</i> ( <i>FUNCTION * {NEXTSTATE}</i> , <i>CALLBACK?</i> ) ⇒ <i>void</i>	Performs a shallow merge of nextState into current state and triggers UI update. Callback after update. NEVER mutate <i>this.state</i> .
↳ * Function Signature: (previousState, currentProps) => [stateVariable: newValue, ...]	
<i>forceUpdate</i> ( <i>CALLBACK?</i> ) ⇒ <i>void</i>	Calling forceUpdate() will cause render() to be called on the component, skipping shouldComponentUpdate(). Avoid usage.
<i>render</i> () ⇒ <i>ReactElement void null</i>	A pure function that returns a <i>ReactElement</i> which relies upon props and state. REQUIRED.
<i>constructor</i> ( <i>PROPS</i> ) { super(props); this.state = {...} } ⇒ <i>StateObject</i>	Invoked once before the component is mounted, returns this.state.
<i>componentWillMount</i> () ⇒ <i>void</i>	Invoked once, both on the client and server, immediately before the initial rendering occurs.
<i>componentDidMount</i> () ⇒ <i>void</i>	Invoked once, only on the client (not on the server), immediately after the initial rendering occurs.
<i>componentWillReceiveProps</i> ( <i>{NEXTPROPS}</i> ) ⇒ <i>void</i>	Invoked when a component is receiving new props. This method is not called for the initial render.
<i>shouldComponentUpdate</i> ( <i>{NEXTPROPS}</i> , <i>{NEXTSTATE}</i> ) ⇒ <i>Boolean</i>	Invoked before rendering when new props or state are being received. Not called on initial render or when forceUpdate is used.
<i>componentWillUpdate</i> ( <i>{NEXTPROPS}</i> , <i>{NEXTSTATE}</i> ) ⇒ <i>void</i>	Invoked immediately before rendering when new props or state are being received. This method is not called for the initial render.
<i>componentDidUpdate</i> ( <i>{PREVIOUSPROPS}</i> , <i>{PREVIOUSSTATE}</i> ) ⇒ <i>void</i>	Invoked immediately after the component's updates are flushed to the DOM. This method is not called for the initial render.
<i>componentWillUnmount</i> () ⇒ <i>void</i>	Invoked immediately before a component is unmounted from the DOM.

LIFECYCLE METHODS  
CORE  
METHODS

Component API (cont'd)

NON-DOM TAGS

<b>key</b>	<code>&lt;ExampleComponent key="uniqueValue" /&gt;</code>	An optional, unique identifier. When your component shuffles around during render passes, it might be destroyed and recreated
<b>ref</b>	<code>&lt;ExampleComponent ref={<b>STRING   CALLBACK</b>} /&gt;</code>	Reference to the React Component. ReactDOM.FindDOMNode(ref). If a callback is used, the component will be passed to the function.
<b>dangerouslySetInnerHTML</b>	<code>&lt;span dangerouslySetInnerHTML={<b>__HTML: STRING</b>} /&gt;</code>	Provides the ability to insert raw HTML, mainly for cooperating with DOM string manipulation libraries.

USEFUL PROPERTIES AND FEATURES

<b>this.props.children</b>	<code>&lt;Component&gt;{<b>this.props.children</b>}&lt;/Component&gt;</code>	Will contain any nested children passed in from the parent component.
<b>...</b>	<code>&lt;ExampleComponent {...<b>this.props</b>} /&gt;</code>	The Spread Operator (...) can be used to extract the entirety of an object without the need to define every key.
<b>Stateless Syntax</b>	<code>var HelloMsg =&gt; function(<b>props</b>) { return &lt;div&gt;Hello {<b>props.name</b>}&lt;/div&gt; }</code>	This defines a stateless functional component. Can ReactDOM.render(<HelloMsg name="John" />.

PROPERTIES

<b>ReactComponentClass.defaultProps</b>	<code>= DefaultPropertiesObject</code>	This object defines the initial props values. It is cached and invoked once when a class is instantiated.
<b>ReactComponentClass.propTypes</b>	<code>= PropertiesSpecificationObject</code>	The PropertiesSpecificationObject defines the contract a parent component must comply with when providing properties.

- ↳ The PropertiesSpecificationObject can define the following property types (they are optional by default):
  - React.PropTypes.array
  - React.PropTypes.bool
  - React.PropTypes.func
  - React.PropTypes.number
  - React.PropTypes.object
  - React.PropTypes.string
  - React.PropTypes.node (ANYTHING THAT CAN BE RENDERED)
  - React.PropTypes.element (REACTELEMENT)
  - React.PropTypes.instanceOf(Message) (MUST BE OF JAVASCRIPT TYPE)
  - React.PropTypes.oneOf(['News', 'Photos']) (SPECIFY ENUMERATED VALUES)
  - React.PropTypes.oneOfType([React.PropTypes.string, React.PropTypes.number]) (LIMIT PROPERTY TYPES)
  - React.PropTypes.arrayOf(React.PropTypes.number) (LIMIT TO A TYPED ARRAY)
  - React.PropTypes.objectOf(React.PropTypes.number) (LIMIT TO A TYPED OBJECT)
  - React.PropTypes.shape({color: React.PropTypes.string, fontSize: React.PropTypes.number}) (LIMIT TO OBJECT WITH SPECIFIC KEYS/TYPES)
  - React.PropTypes.func.isRequired (PRODUCE AN ERROR IF THE PROPERTY ISN'T PASSED TO THE CHILD)
  - React.PropTypes.any.isRequired (CAN BE ANY OBJECT BUT MUST BE REQUIRED)
  - (props, propName, componentName) => Boolean (CREATE A CUSTOM PROPERTY WITH THE FOLLOWING FUNCTION SIGNATURE)

- ↳ Example: `ReactComponent.propTypes = { optionalArray: React.PropTypes.array, requiredFunction: React.PropTypes.func.isRequired };`

JSX Events

Synthetic Event (default callback arg)

{
<b>BOOLEAN</b> bubbles
<b>BOOLEAN</b> cancelable
<b>DOMEVENTTARGET</b> currentTarget
<b>BOOLEAN</b> defaultPrevented
<b>NUMBER</b> eventPhase
<b>BOOLEAN</b> isTrusted
<b>DOMEVENT</b> nativeEvent
<b>VOID</b> preventDefault()
<b>BOOLEAN</b> isDefaultPrevented()
<b>VOID</b> stopPropagation()
<b>BOOLEAN</b> isPropagationStopped()
<b>DOMEVENTTARGET</b> target
<b>NUMBER</b> timeStamp
<b>STRING</b> type
}

**Clipboard** onCopy onCut onPaste  
( **DOMDATATRANSFER** clipboardData )

**Composition** onCompositionEnd  
onCompositionStart onCompositionUpdate  
( **STRING** data )

**Keyboard** onKeyDown onKeyPress onKeyUp  
( **BOOLEAN** altKey, **NUMBER** charCode, **BOOLEAN** ctrlKey, **BOOLEAN** getModifierState(key), **STRING** key, **NUMBER** keyCode, **STRING** locale, **NUMBER** location, **BOOLEAN** metaKey, **BOOLEAN** repeat, **BOOLEAN** shiftKey, **NUMBER** which )

**Focus** onFocus onBlur  
( **DOMEVENTTARGET** relatedTarget )

**Form** onChange onInput onSubmit

**Mouse** onClick onContextMenu onDoubleClick onDrag onDragEnd onDragEnter onDragExit onDragLeave onDragOver onDragStart onDrop onMouseDown onMouseEnter onMouseLeave onMouseMove onMouseOut onMouseOver onMouseUp  
( **BOOLEAN** altKey, **NUMBER** button, **BOOLEAN** buttons, **NUMBER** clientX, **NUMBER** clientY, **BOOLEAN** ctrlKey, **BOOLEAN** getModifierState(key), **BOOLEAN** metaKey, **NUMBER** pageX, **NUMBER** pageY, **DOMEVENTTARGET** relatedTarget, **NUMBER** screenX, **NUMBER** screenY, **BOOLEAN** shiftKey )

**Selection** onSelect

**Touch** onTouchCancel onTouchEnd onTouchMove onTouchStart  
( **BOOLEAN** altKey, **DOMTOUCHLIST** changedTouches, **BOOLEAN** ctrlKey, **BOOLEAN** getModifierState(key), **BOOLEAN** metaKey, **BOOLEAN** shiftKey, **DOMTOUCHLIST** targetTouches, **DOMTOUCHLIST** touches )

**UI** onScroll ( **NUMBER** detail, **DOMABSTRACTVIEW** view )

**Wheel** onWheel ( **NUMBER** deltaMode, **NUMBER** deltaX, **NUMBER** deltaY, **NUMBER** deltaZ )

**Media** onAbort onCanPlay onCanPlayThrough onDurationChange onEmptied onEncrypted onEnded onError onLoadedData onLoadedMetadata onLoadStart onPause onPlay onPlaying onProgress onRateChange onSeeked onSeeking onStalled onSuspend onTimeUpdate onVolumeChange onWaiting

**Image** onLoad onError