

How does my-react work to render <h1>Hello World</h1>?

You can define babel-parser pragma option as `h` for anything you like. Here I define pragma as `x` in `webpack.config.js` and export `createElement` as `x` in `react/src/index.js`.

received params: 1: type -> `f App()` 2: props -> `{}` null 3: children -> undefined

① handle jsx syntax: `createElement()` called 1st time

```
{ constructor: undefined,
  key: null,
  props: {},
  ref: null,
  type: f App(),
  _children: null,
  _component: null,
  _depth: 0,
  _dom: null,
  _lastDomChild: null,
  _parent: null }
```

vnode returned

② `renderVnode, parentDom, replaceNode()`

parentDom._children = vnode

`createElement()` called 2nd time

received params: 1: type -> `Fragment` 2: props -> `{}` null 3: children -> `[vnode]`

`createVnode()` called

received params: props -> `[vnode]`

final result: update props and type properties of vnode

```
{ constructor: undefined,
  key: null,
  props: {children: Array(1)},
  ref: null,
  type: (props) => {return props.children; },
  _children: null,
  _component: null,
  _depth: 0,
  _dom: null,
  _lastDomChild: null,
  _parent: null }
```

vnode returned

diff() called 1st time

`new ComponentNewProps, cctx` -> update `_component` property of vnode

`toChildArray(vnode)` -> flatten children of virtual node

`diffChildren()`

`toChildArray()` -> flatten children of parent virtual node

`transformBeforeFlatten()` -> invoke for each child before it is added to the flattened list

diff() called 2nd time

`new NewTypeNewProps, cctx`

invoke `componentWillMount` lifecycle and push `componentDidMount` function to `_renderCallbacks` queue

`render(cctx.props, cctx.state, cctx.context)`

render under the hood

③ `createElement()` called 3rd time

vnode returned

```
f render() {
  return Object(my_react__
    WEBPACK_IMPORTED_
    MODULE_0["x"]("h1", null, "
    Hello World");
}
```

```
{ constructor: undefined,
  key: null,
  props: {children: Array(1)},
  ref: null,
  type: "h1",
  _children: null,
  _component: null,
  _depth: 0,
  _dom: null,
  _lastDomChild: null,
  _parent: null }
```

`commitRoot()`