How and why JSX syntax works?

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What is JSX?

"JSX is an XML-like syntax extension to ECMAScript without any defined semantics¹".

-- facebook/jsx

¹syntactic sugar

What is JSX?

"It's NOT intended to be implemented by engines or browsers".

— facebook/jsx

Generated code

React.createElement = f(nodeName, attributes, ...args)

React

Pragma

```
1 /** @jsx h */
2 2 2 2 3 <div /> 3 h("div", null);
```

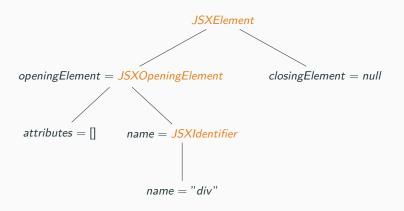
@babel/plugin-syntax-jsx²

Allow parsing of JSX syntax.

 $^{^2} https://github.com/babel/babel/tree/master/packages/babel-plugin-syntax-jsx$

AST representation

1 <div />



Transformation

 $JSXElement \rightarrow CallExpression^3$ $JSXAttribute \rightarrow ObjectExpression$ Children of $JSXElement* \rightarrow arguments$

³React.createElement