

# Hacking JSX

## **Building in Minecraft with React**

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# **DSL = Domain Specific Language**

*A domain-specific language (DSL) is a computer language specialized to a particular application domain.*

## Example: SQL

- ✓ Solves a specific problem very well
- ✗ Limited functionality (not Turing complete)

```
const MyComponent = () => {  
  return <a href="https://google.com">My Link</a>;  
}
```



```
const MyComponent = () => {  
  return React.createElement("a", {  
    href: "https://google.com"  
  }, "My Link");  
};
```

```
const MyBuild = () => {  
  return <Block id="stone" x={1} y={2} z={3} />  
}
```



```
const MyBuild = () => {  
  return mc(Block, {  
    id: "stone",  
    x: 1,  
    y: 2,  
    z: 3  
  });  
};
```

```
<
  <Block id="grass_block" x={0} y={0} z={0} />
  <Block id="poppy" x={0} y={1} z={0} />
</>
```



```
[
  { id: 'grass_block', x: 0, y: 0, z: 0 },
  { id: 'poppy', x: 0, y: 1, z: 0 }
]
```



```
setblock 0 0 0 grass_block
setblock 0 1 0 poppy
```



# Why JSX?

1. Familiar syntax
2. Existing tooling

Time for a demo!



# Thank you

## Felix Wotschofsky



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Source code available at

 [wotschofsky/jsx-minecraft](https://github.com/wotschofsky/jsx-minecraft)