

Optional Chaining in JavaScript

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Why?

```
const obj = {  
  prop: { a: "value" },  
}  
  
// Before ES2020  
obj.foo.a  
obj && obj.foo && obj.foo.a  
// TypeError: Cannot read property 'a' of  
undefined
```

How?

```
const obj = {  
  prop: { a: "value" },  
}
```

```
// Optional Chaining  
const x = obj.foo?.a
```

```
// undefined
```

Arrays & Methods Too

```
const obj = {  
  list: [1,2,3],  
  func: () => console.log('Hi'),  
}
```

```
// Before ES2020
```

```
obj.bar[1]
```

```
// TypeError: Cannot read property '1' of undefined
```

```
obj.baz()
```

```
// TypeError: obj.baz is not a function
```

Arrays & Methods Too

```
const obj = {  
  list: [1,2,3],  
  func: () => console.log('Hi'),  
}
```

```
// Optional Chaining
```

```
obj.bar?.[1]  
// undefined
```

```
obj.baz?.()  
// undefined
```

Short circuiting

`obj.parent?.child?.name`

`// undefined`

Q&A