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Generator Functions

in **JavaScript**



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A generator function is a special type of function that can be **paused** and **resumed**.

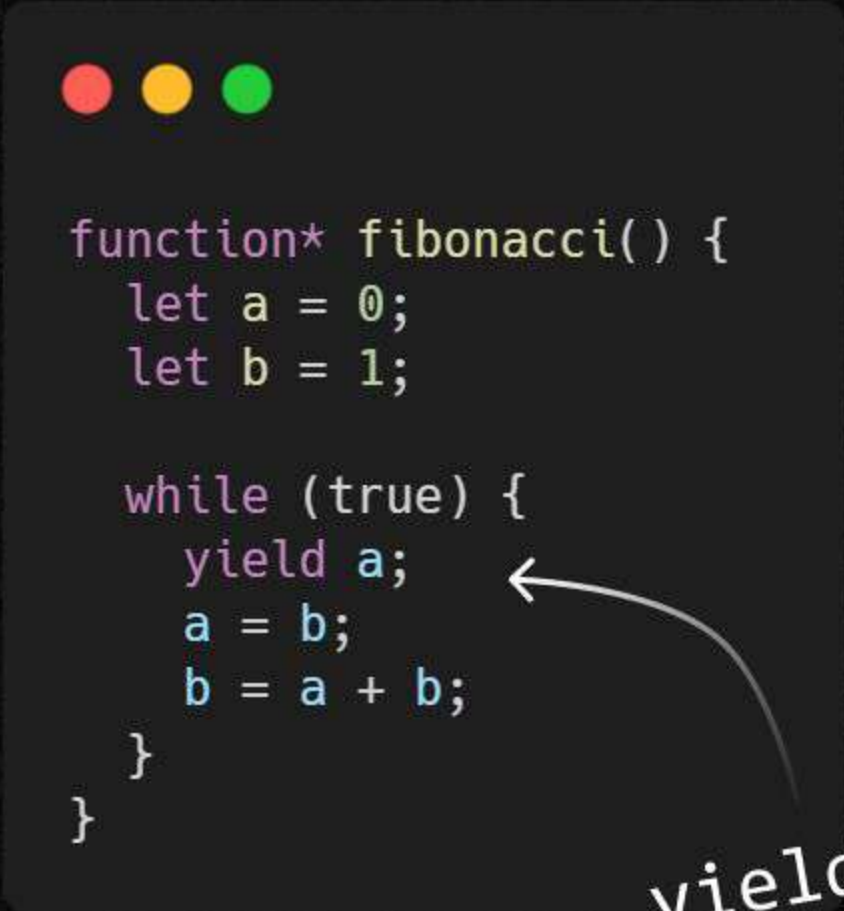
This makes it useful for creating iterators, which are objects that can be used to **iterate over a sequence of values**.

you can stop
what you started



Generator functions are defined using the **function*()** syntax.

The ***** character tells the JavaScript interpreter that the function is a generator function.



```
function* fibonacci() {  
  let a = 0;  
  let b = 1;  
  
  while (true) {  
    yield a;  
    a = b;  
    b = a + b;  
  }  
}
```

yield keyword is used
to **pause** the function
and **return a value**.

The function can then be **resumed** by calling the **next()** method on the **iterator object**.



```
const fib = fibonacci();  
  
console.log(fib.next()); // 0  
console.log(fib.next()); // 1  
console.log(fib.next()); // 2  
console.log(fib.next()); // 4
```

```
{  
  "value": 0,  
  "done": false  
}
```

```
{  
  "value": 1,  
  "done": false  
}
```

```
{  
  "value": 2,  
  "done": false  
}
```

```
{  
  "value": 4,  
  "done": false  
}
```



→ The **next()** method returns an object with two properties: **value** and **done**.

The value property contains the **value that was yielded** by the function.

The done property is a **boolean value** that indicates whether the function has **finished generating** values.





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