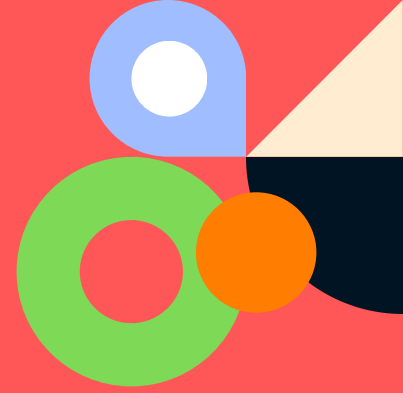


Currying in javascript



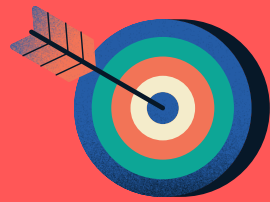
{ JavaScript }

Currying In Javascript

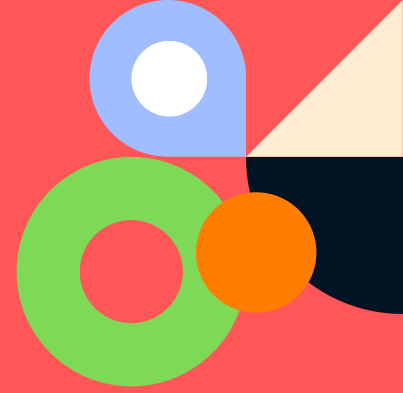


A functional programming technique where a multi-argument function is transformed into a series of single-argument functions, facilitating partial application and composability.

{ JavaScript }



Key Points



Enables partial application of arguments.



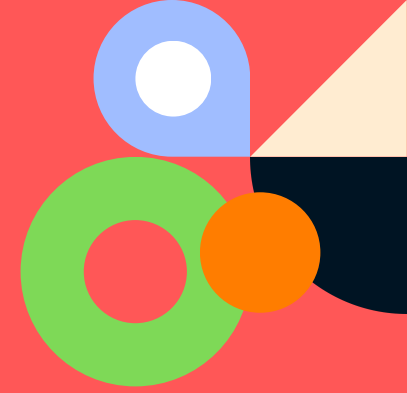
Enhances composability through function chaining.



Utilizes function closures and higher-order functions for implementation.

{ JavaScript }

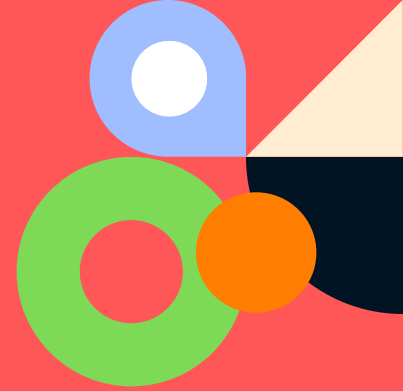
Original function with multiple arguments



```
function filterByProperty(array, property, value){  
    return array.filter(item => item[property] === value);  
}
```

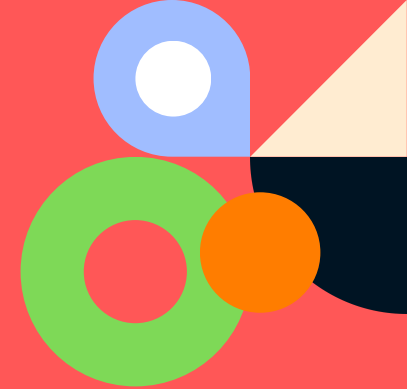
{ JavaScript }

Curried version



```
function curriedFilterByProperty(property) {  
  return function(value) {  
    return function(array) {  
      return  
      array.filter(item => item[property] === value);  
    };  
  };  
}
```

{ JavaScript }



Let's see how it
works .



{ JavaScript }



Take a sample array of user objects



```
const users = [  
  { name: 'Alice',  
    age: 30,  
    gender: 'female',  
    nationality: 'US'  
  },  
  { name: 'Bob',  
    age: 25,  
    gender: 'male',  
    nationality: 'UK'  
  },  
  { name: 'Charlie',  
    age: 35,  
    gender: 'male',  
    nationality: 'US'  
  },  
  { name: 'Diana',  
    age: 40,  
    gender: 'female',  
    nationality: 'UK'  
  }  
];
```



Usage



```
const filterByGender =  
  curriedFilterByProperty('gender');  
const filterByNationality =  
  curriedFilterByProperty('nationality');  
  
const femaleUsers = filterByGender('female')(users);  
console.log('Female Users:', femaleUsers);  
  
const UKUsers = filterByNationality('UK')(users);  
console.log('UK Users:', UKUsers);
```



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