

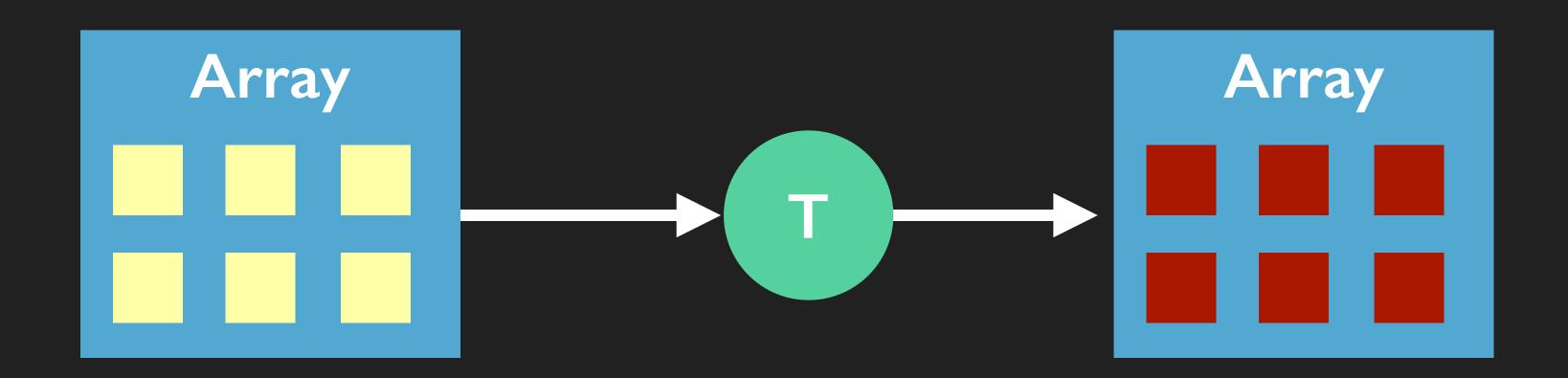
> MAKE school

FILTER & MAP IN SWIFT



WHAT ARE FILTER & MAP?

Functions that allow you to manipulate collections by applying a transform function





FILTER

Allows you to remove elements from a collection based on a requirement

```
struct User {
  var age: Int
}

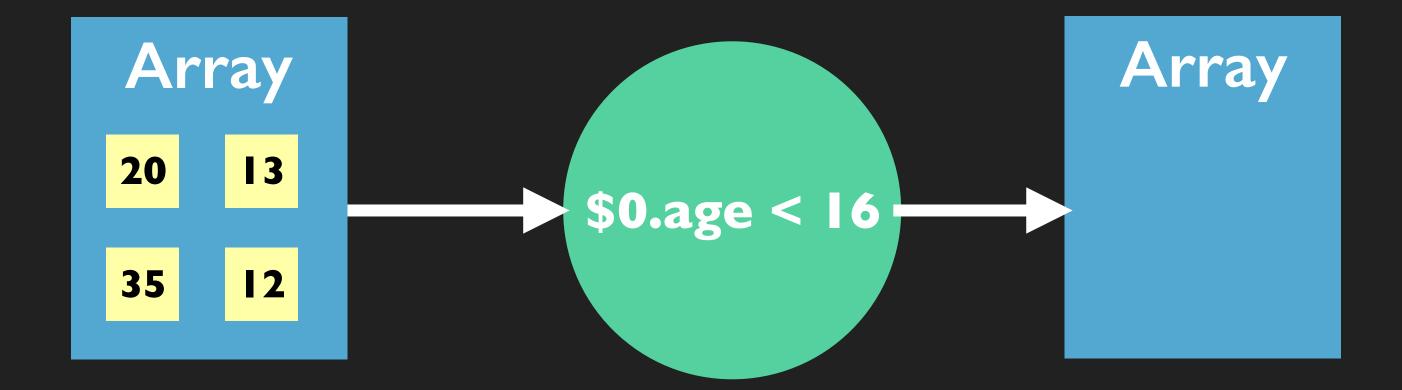
let users = [User(age: 20), User(age: 13),
User(age: 35), User(age: 12)]

let youngUsers = users.filter { $0.age < 16 }</pre>
```



FILTER

let youngUsers = users.filter { \$0.age < 16 }</pre>





MAP

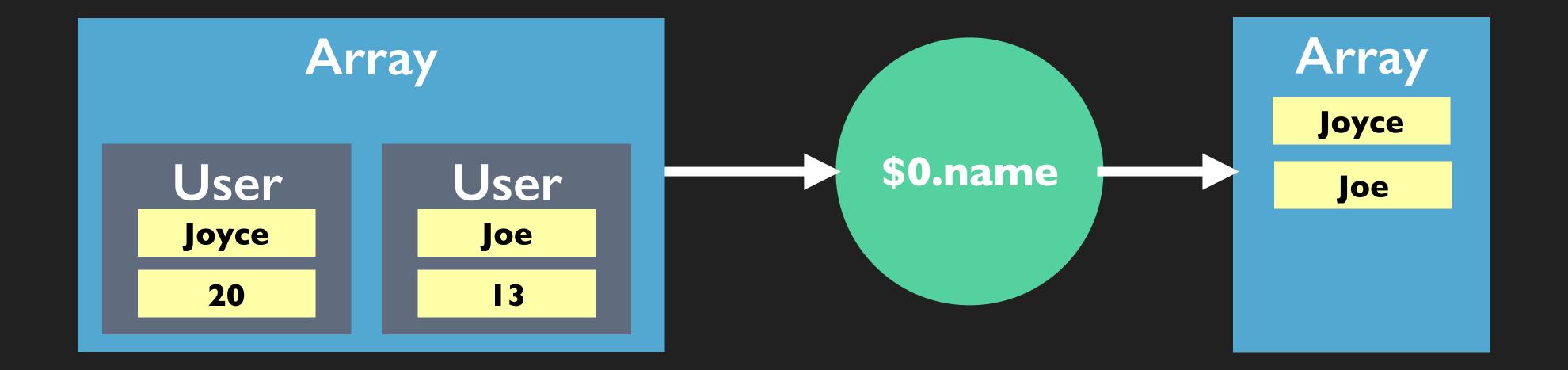
Allows you to transform an array by replacing each element with a new element

```
struct User {
   var age: Int
   var name: String
}
let users = [User(age: 20, name:"Joyce"),
User(age: 13, name:"Joe")]
let usernames = users.map { $0.name }
```



MAP

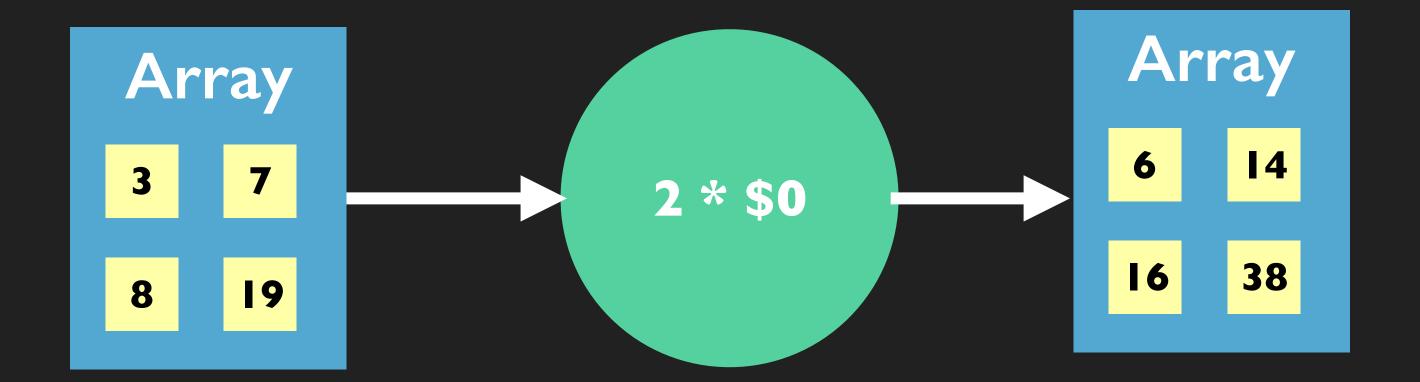
let usernames = users.map { \$0.name }





MAP

let doubleNumbers = numbers.map { 2 * \$0 }





COMBINING MAP AND FILTER

```
let users = [User(age: 20, name:"Joyce"),
User(age: 13, name:"Joe")]
let filterdUsernames =
  users.filter { $0.age < 16 }.map { $0.name }</pre>
```

