when/unless

Using when/unless in functional pipelines (4 min. read)

Sometimes you only need the if statement, and the else simply returns the value unchanged.

```
const isEven = (num) => num % 2 === 0;
const doubleIfEven = (num) => {
    if (isEven(num)) {
        return num * 2;
    }

    return num;
};

console.log(
    doubleIfEven(100),
    doubleIfEven(101)
);
```

Again, ternaries can work well here.

But we can also use the when function. It takes three arguments

- 1. Predicate (function that returns true or false)
- 2. Function to run if predicate returns true

3. The value to use

```
import { when } from 'ramda';

const isEven = (num) => num % 2 === 0;

const doubleIfEven = when(
    isEven,
    (num) => num * 2
);

console.log(
    doubleIfEven(100),
    doubleIfEven(101)
);
```

We can make it point-free.

```
import { multiply, when } from 'ramda';

const isEven = (num) => num % 2 === 0;

const doubleIfEven = when(
    isEven,
    multiply(2)
);

console.log(
    doubleIfEven(100),
    doubleIfEven(101)
);
```

Conveniently enough, Ramda lets you express the opposite logic using unless.

This runs your function if the predicate returns false.

```
import { multiply, unless } from 'ramda';

const isEven = (num) => num % 2 === 0;

const doubleIfOdd = unless(
   isEven,
   multiply(2)
);

console.log(
```

```
doubleIfOdd(100),
  doubleIfOdd(101)
);
```

Now this function only doubles *odd* numbers. If we wanted doubleIfEven, our predicate must flip as well.

```
import { multiply, unless } from 'ramda';
const isOdd = (num) => num % 2 !== 0;

const doubleIfEven = unless(
    isOdd,
    multiply(2)
);

console.log(
    doubleIfEven(100),
    doubleIfEven(101)
);
```