Inspecting With Tap

Easily trace pipe and compose calls using tap(). (3 min. read)

One of pipe 's potential drawbacks is losing the ability to easily add code for debugging purposes.

Back when we had this

```
const doMath = (num) => {
  const doubled = num * 2;
  const tripled = doubled * 3;
  const squared = tripled * tripled;

  return squared + 1;
}

const result = doMath(2);

console.log({ result });
```

Jamming a console.log or little hack was easy. How do we inspect pipe d functions?

Introducing tap. It takes a function, usually a logger, and supplies it the current value. You can do whatever you want without affecting the pipeline since you're just "tapping" it! :D

```
import { pipe, tap } from 'ramda';

const doMath = pipe(
  tap((num) => {
    console.log('initial number:', num);
  }),

double,
  tap((num) => {
    console.log('after doubling:', num);
  }),
```

```
triple,
  tap((num) => {
    console.log('after tripling:', num);
  }),
  square,
  tap((num) => {
    console.log('after squaring:', num);
  }),
  increment,
  tap((num) \Rightarrow \{
    console.log('after incrementing:', num);
 }),
);
const result = doMath(2);
console.log({ result });
                                                                                          \leftarrow
```

You don't even need to use tap itself, just insert a function that returns its arguments unchanged.

```
import { pipe, tap } from 'ramda';
                                                                                             G
const doMath = pipe(
  (num) => {
    console.log('initial number:', num);
    return num;
  },
  double,
  (num) => {
    console.log('after doubling:', num);
    return num;
  },
  triple,
  (num) \Rightarrow {
    console.log('after tripling:', num);
    return num;
  },
  square,
  (num) => {
    console.log('after squaring:', num);
    return num;
  },
  increment,
  (num) => {
    console.log('after incrementing:', num);
    return num;
  }
```

```
const result = doMath(2);
console.log({ result });
```







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