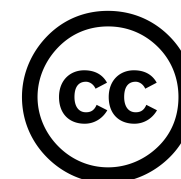




A gentle guide to Functional Javascript

THE WHY'S AND HOW'S

Nikola Tankovic



"In addition to it being useful, it is also cursed and the curse of the monad is that once you understand it, you lose the ability to explain it to anybody."

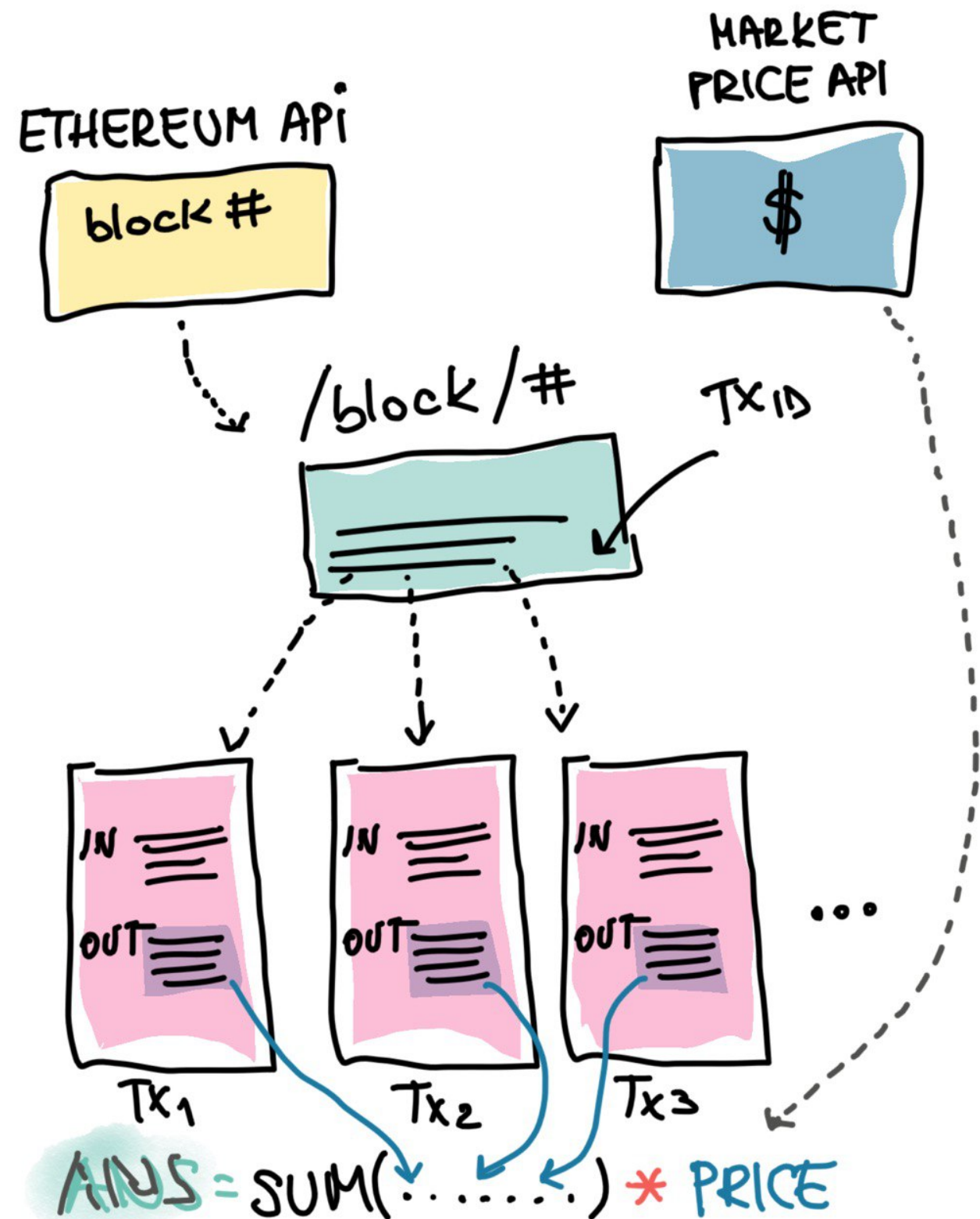
DOUGLAS CROCKFORD, YUICONF 2012



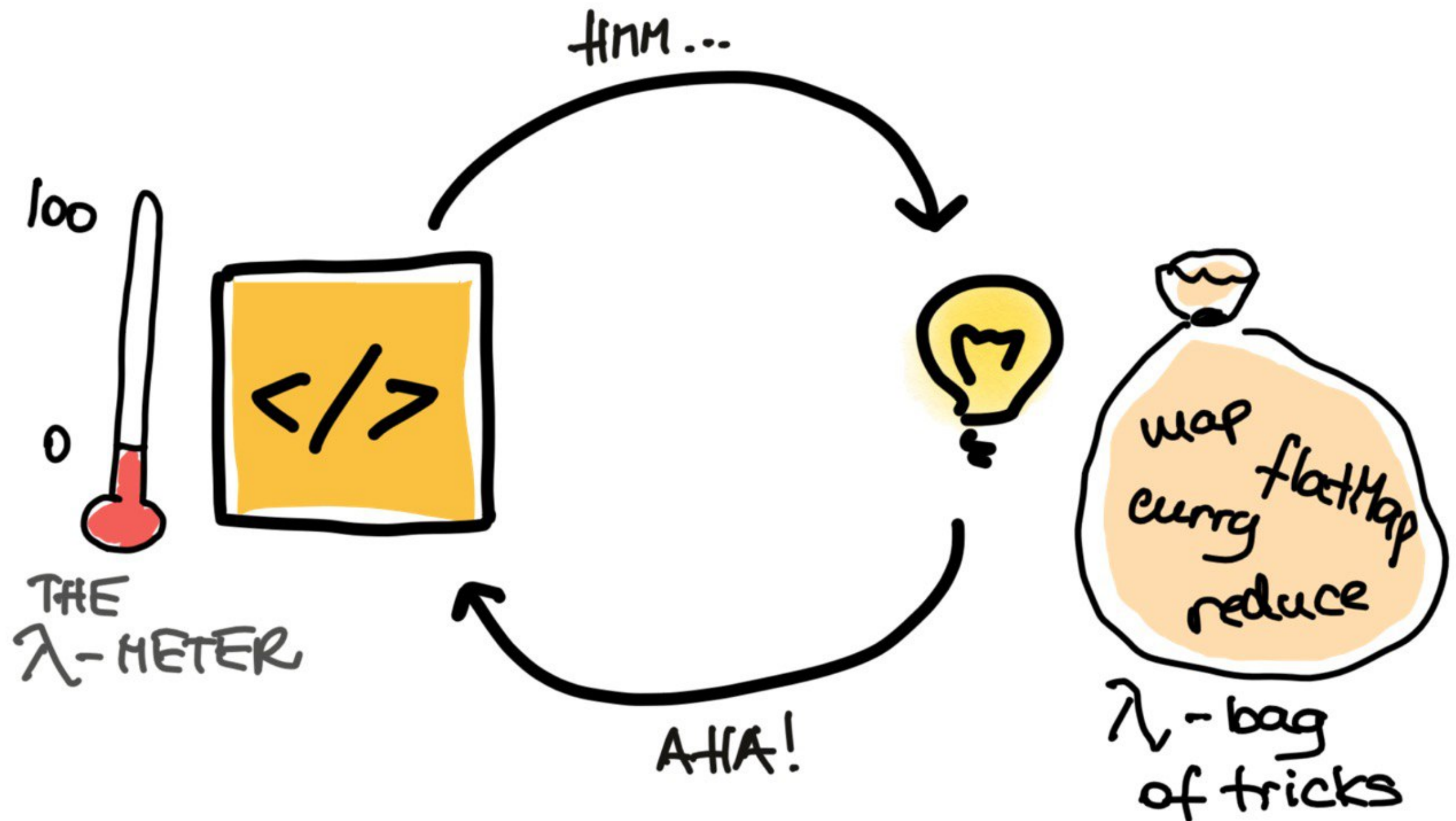
THE PROBLEM

Get the latest Ethereum
block volume in US dollars.

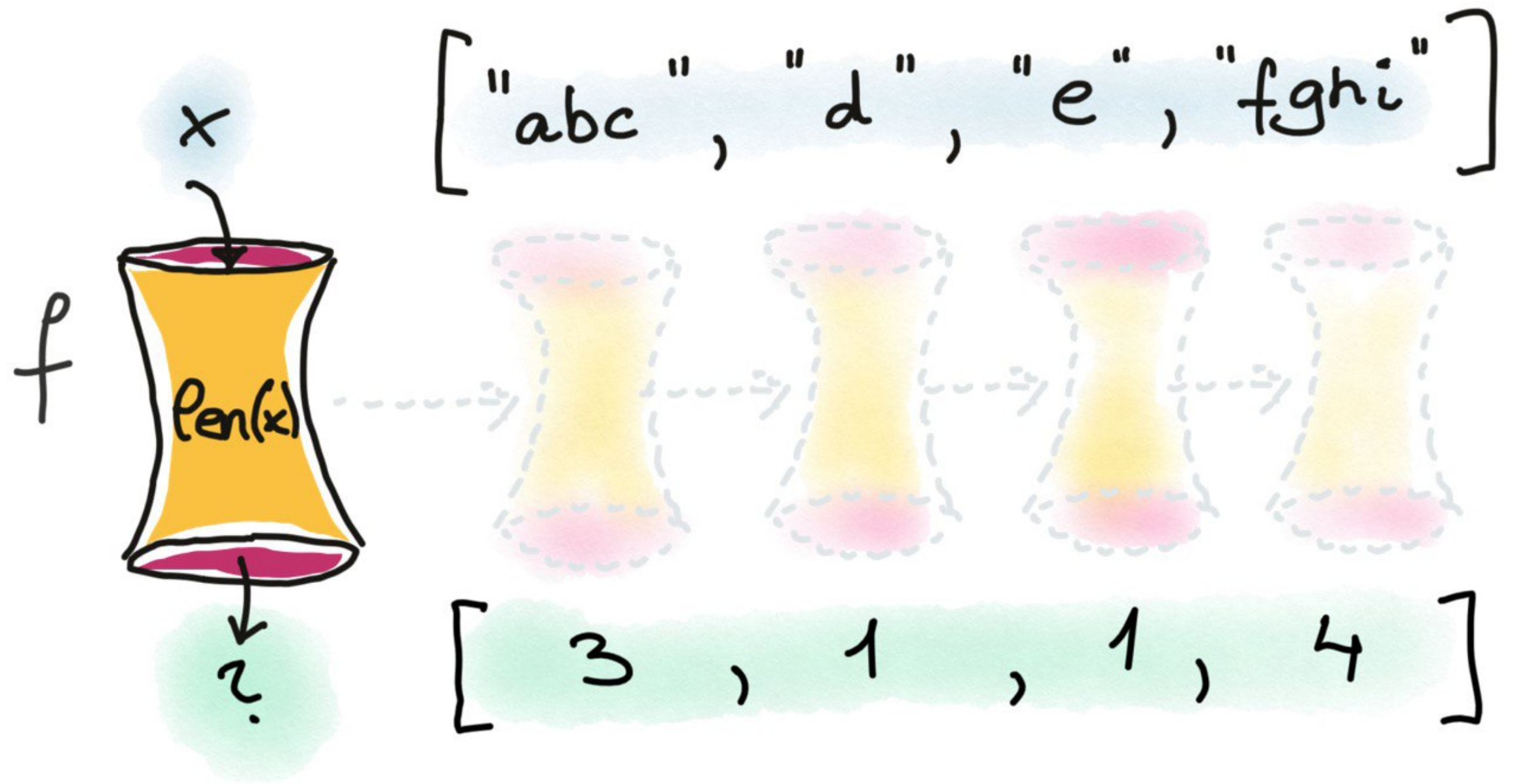
No frameworks please!



THE λ PLAN

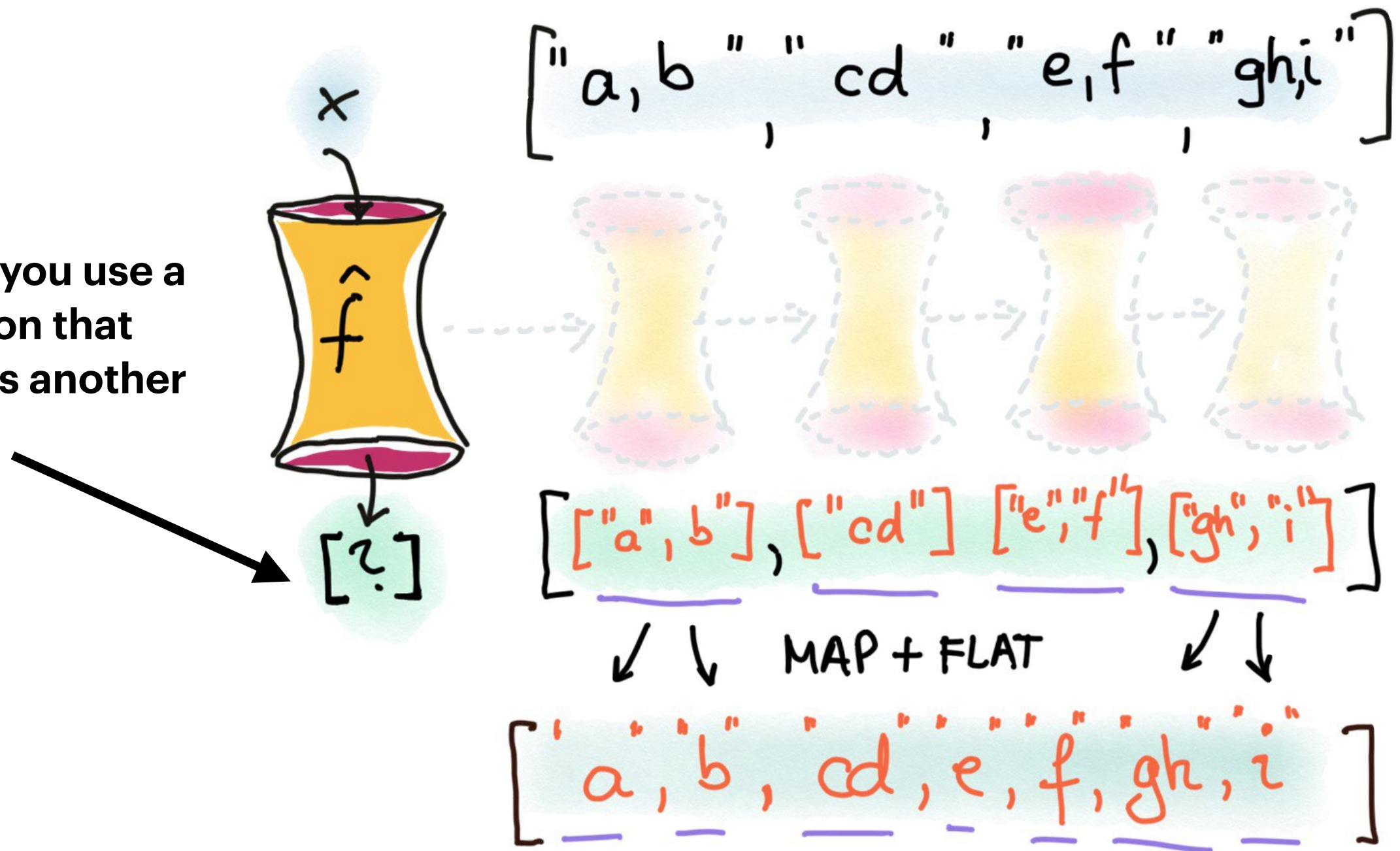


MAP

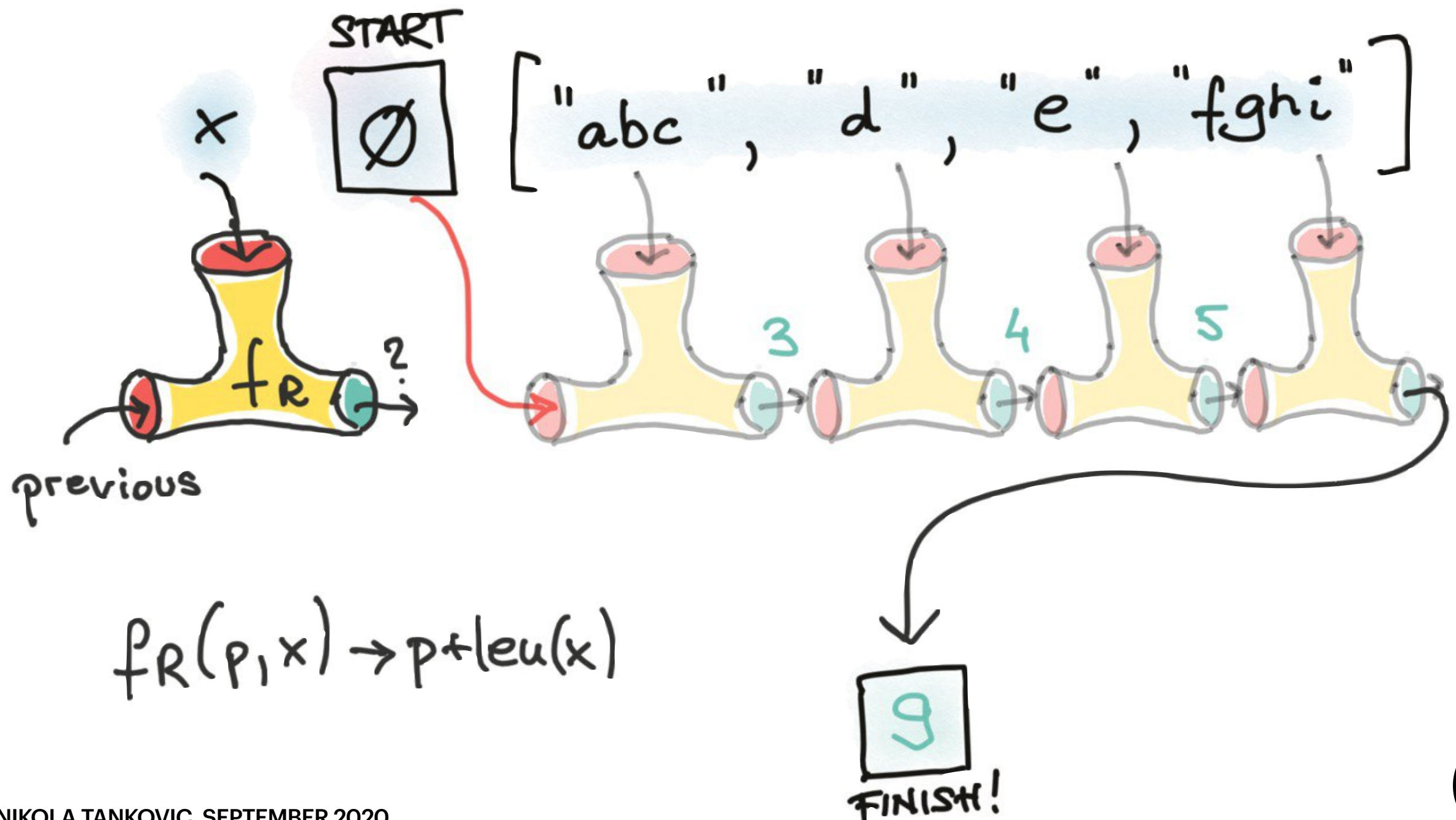


FLATMAP

When you use a function that returns another Array

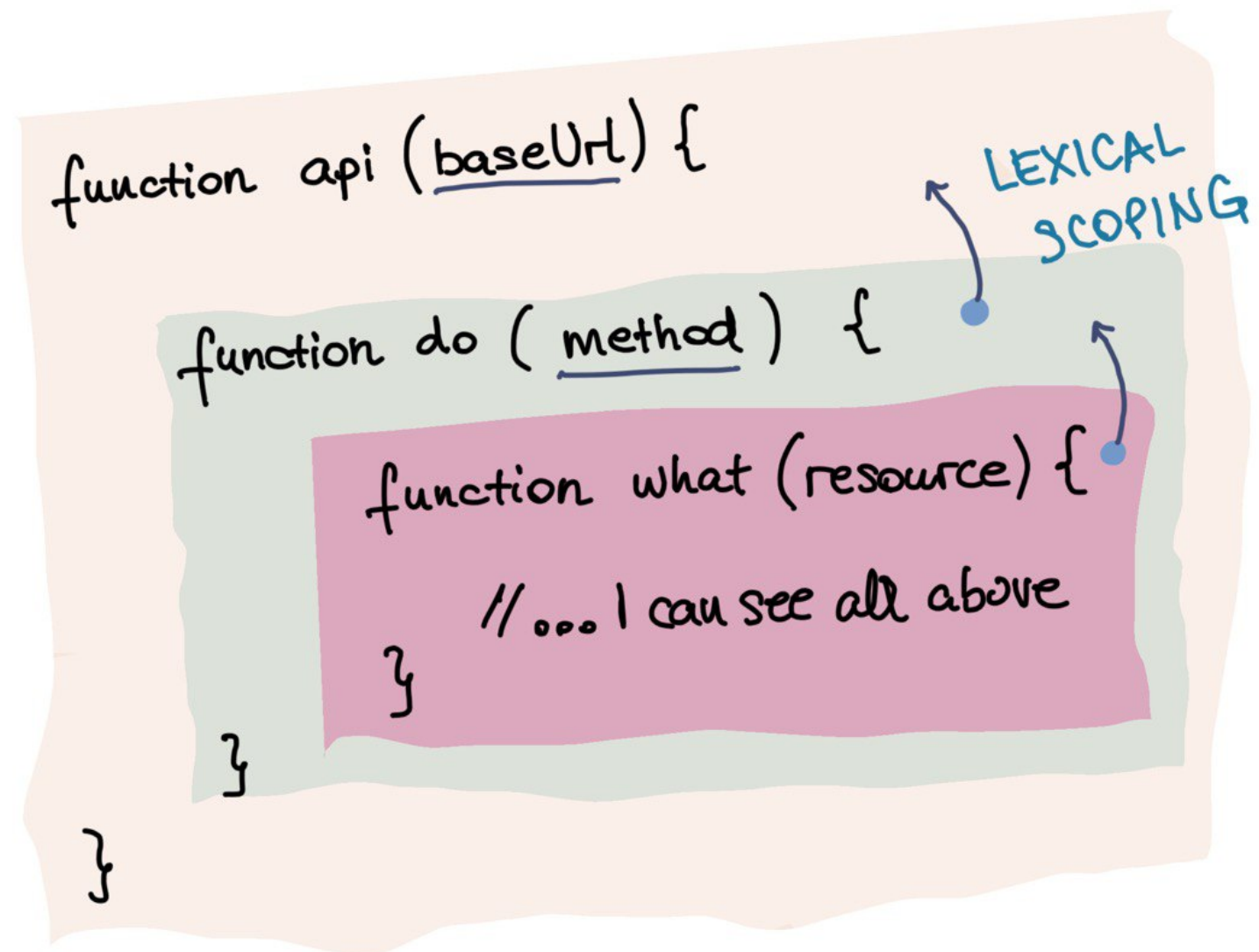


REDUCE (AKA. FOLD > CATAMORPHISM)



CLOSURES

Javascript
uses
**LEXICAL
SCOPING**

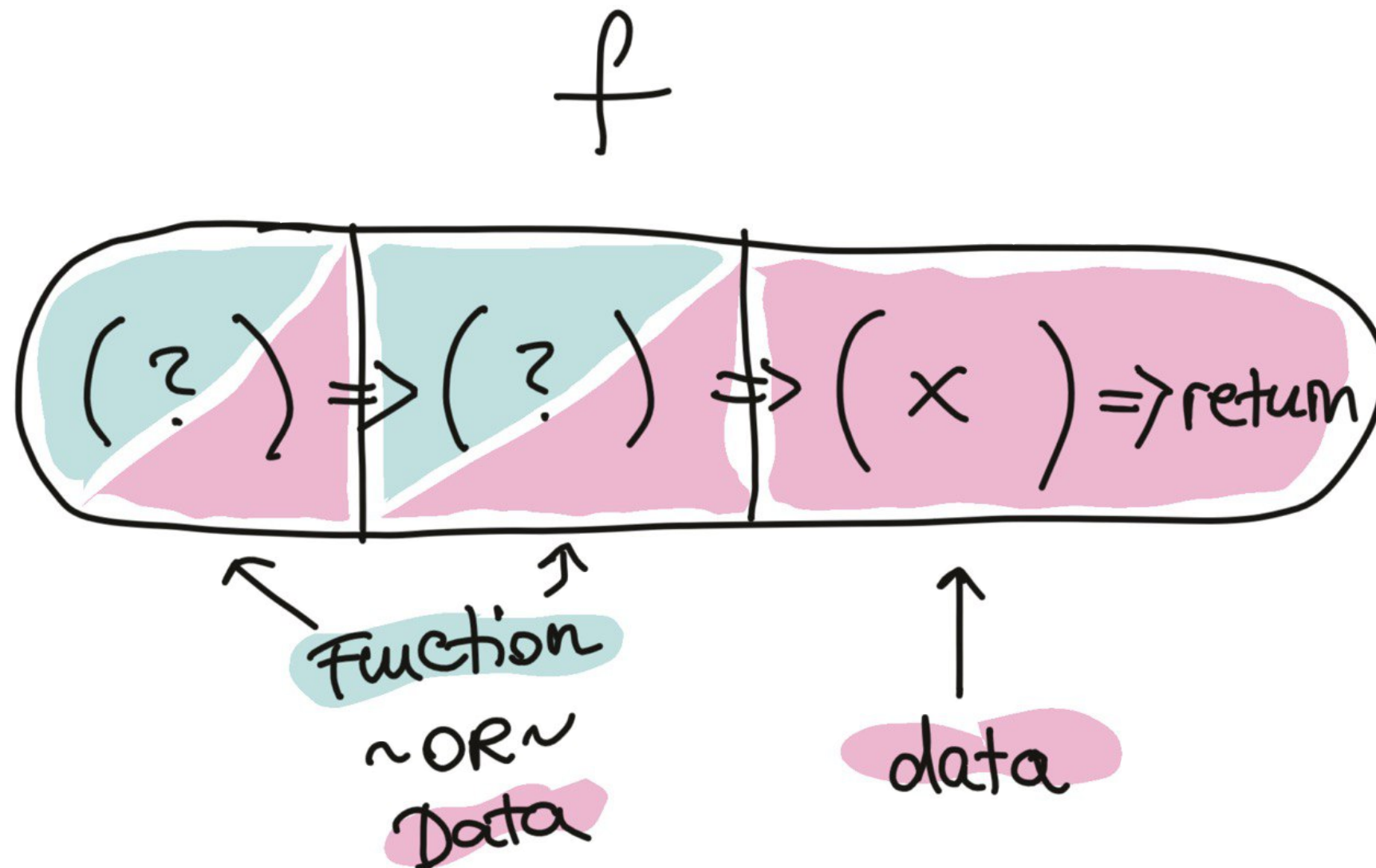


~ OR ~

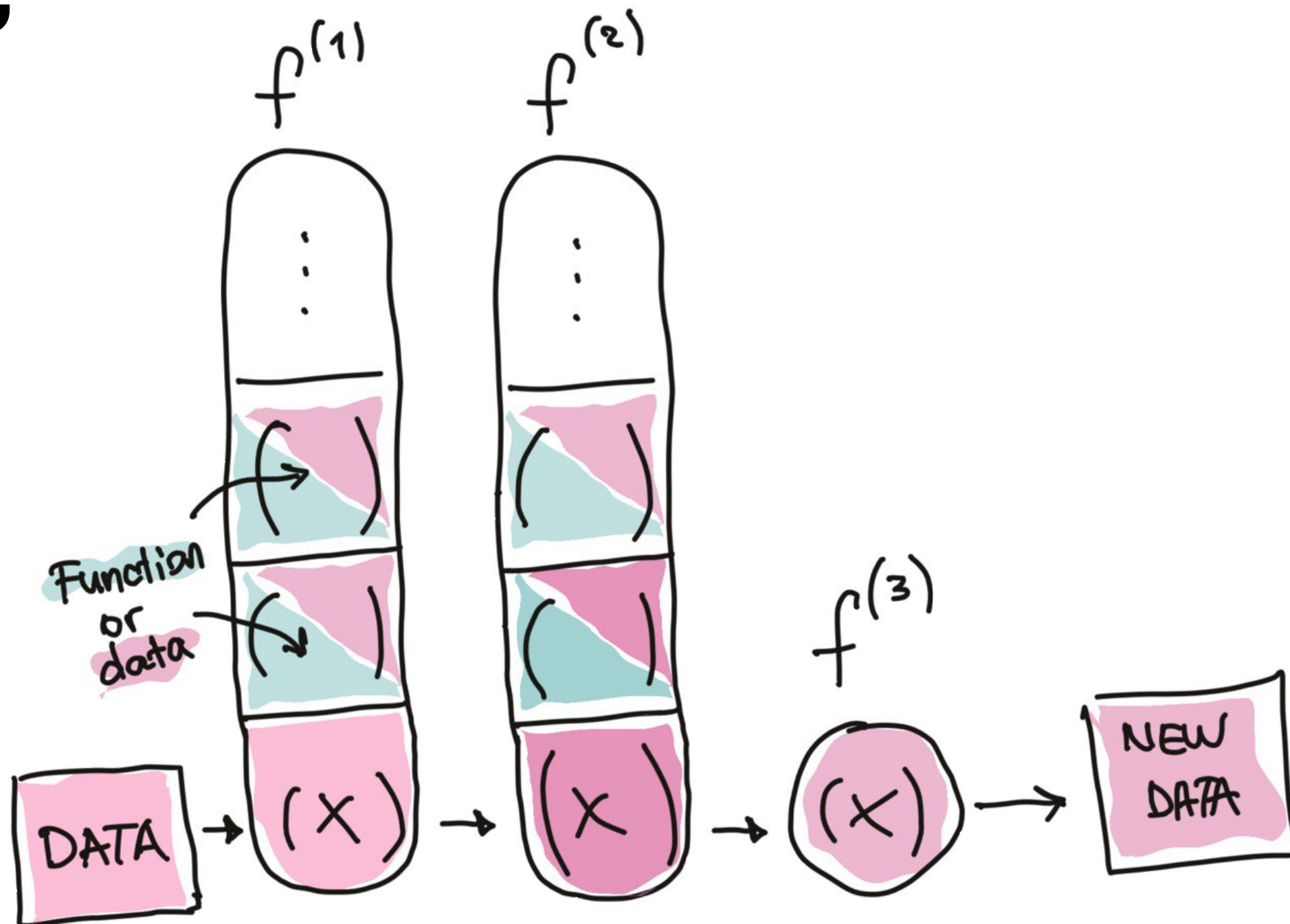
```
let api = (baseUrl) => (method) => (resource) => {  
  // ...  
}
```


HIGHER-ORDER FUNCTIONS

CURRYING



COMPOSITION/ PIPING



WHERE TO GO...

- YT: Fun Fun Function series on FP in JS
- Thinking in Ramda (short course)
- Ramda - lighter Ramda
- Immutable data structures: Immutable.js
- Want stricter than Ramda?
<https://github.com/sanctuary-js/sanctuary>
- Bartosz Milewski: Category theory for programmers
- Monads:
 - Three useful Monads
 - On Functors, Monads and Applicatives in JS

