nguyen minh quan

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RamdaJS

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# What is RamdaJS and why we need it?

It borrows fundamental FP ideas, including

* Emphasis on pure functions
* Everything’s curried
* Pipe/Compose are included and encouraged
* Functions take their data last

# Các khái niệm trước khi vào ramda

## Pure function

Function được consider là pure nếu:

* Same inputs *always* return same outputs
* No side-effects

Lý do Ramda prefer pure function vì Ramda được viết để tối ưu FP, giúp code với FP dễ hơn

## Higher-Order Function

HOFs có thể coi là 1 abtraction của 1 action, và return 1 function.

Why this great

import { median, pluck, pipe, reject } from 'ramda';

import employees from './employees.json';

const getMedianSixFigurePaycheck = pipe(

  getSalaries,

  reject(isBelowSixFigures),

  median,

  calculateMonthlyPaycheck,

  toUSD

);

const result = getMedianSixFigurePaycheck(employees);

console.log({ result });

Output

{ result: '$50,725.21' }

Với .pipe() dễ thấy :

* Get all salaries from a list
* Exclude salaries below six figures (< $100,000)
* Find the median salary
* Calculate how much they make each month
* Format in dollars (USD)

## Composition.

Compose means [to create by combining things](https://www.educative.io/courses/functional-programming-patterns-with-ramdajs/N87WVwGGj3m).

Compose function giống như:

f(x) = x^2 +1

g(x) = x + 2

Compose Function: f(g(x)) = (x+2)^2 + 1

Vì tính chất thay thế nên compose function duyệt từ phải qua trái

const upperAndReverseFirstNames = (users) => {

  return users.map(upperAndReverseFirstName);

};

Thành

const upperAndReverseFirstNames = map(upperAndReverseFirstName);