```
case class Presentation(
  title: String, author: String, date: Date, venue: String)

Presentation(
  title = "DDDDDDDDDDDDD",
  author = "Claude-3.5 Sonnet",
  date = Date(2024, 10, 19, Sat),
  venue = "λ Kansai in Autumn 2024",
).copy(author = "kmizu")
```

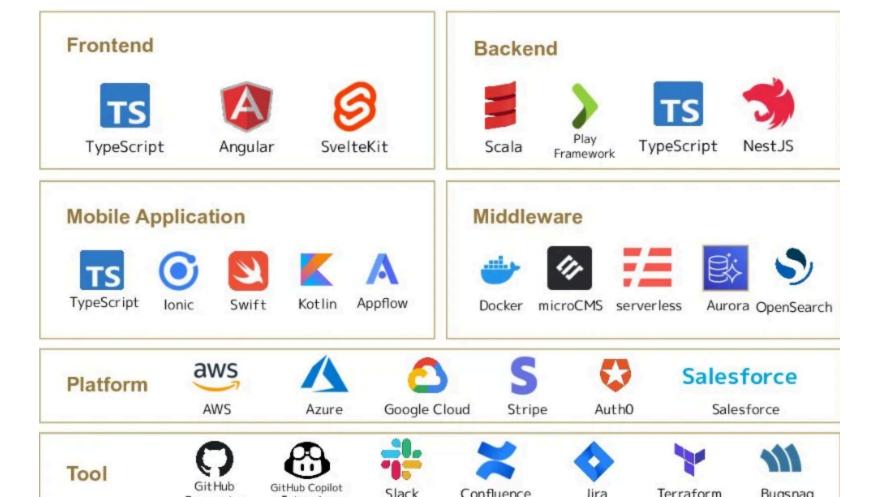


- @kmizu: https://x.com/kmizu
 - GitHub: https://github.com/kmizu

- Scala
- 00000000000AI00000000

we are nining:

- DDDScalaDDDD/ TypeScriptDDDD
- 0000000X0kmizu00DM0000000



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IIII VS. IIII in JavaScript

```
// 000
function calculateAverage(scores) {
    let total = 0;
    for (let score of scores) {
        total += score;
    return total / scores.length;
// ППП
const calculateAverageFunctional = scores => {
    const total =
        scores.reduce((total, score) => total + score);
    return total / scores.length;
// 000
const testScores = [75, 80, 90, 50, 60];
console.log(calculateAverage(testScores)); // 71
console.log(calculateAverageFunctional(testScores)); // 71
```

1. 0000000000

2. 00000

```
const calculateConsumptionTax = price => price * 0.1;
// ппппппппп
let totalSales = 0;
const recordSale = price => {
   totalSales += price;
   return price * 1.1;
};
// ППП
console.log(calculateConsumptionTax(1000)); // 001000
console.log(recordSale(1000)); // 1100
console.log(totalSales); // 1000
console.log(recordSale(1000)); // 1100
console.log(totalSales); // 2000
```

```
const addTopping = (ramen, topping) => {
   ramen.toppings.push(topping);
   return ramen;
};
const addToppingImmutable = (ramen, topping) => ({
   ...ramen,
   toppings: [...ramen.toppings, topping]
});
// 000
const mutableRamen = {broth: 'shoyu', toppings: ['chashu', 'menma']};
console.log(addTopping(mutableRamen, 'nori'));
// { broth: 'shoyu', toppings: ['chashu', 'menma', 'nori'] }
const immutableRamen = {broth: 'miso', toppings: ['corn', 'butter']};
const newRamen = addToppingImmutable(immutableRamen, 'negi');
console.log(newRamen);
// { broth: 'miso', toppings: ['corn', 'butter', 'negi'] }
```

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```
const applyDiscount = (calcPrice, discount) =>
   menuItem => calcPrice(menuItem) * (1 - discount);
const regularPrice = menuItem => menuItem.price;
// 000
const menu = [
   {name: '000', price: 500},
   {name: '[[]', price: 550},
   {name: '0000', price: 700}
];
const regularCalc = regularPrice;
const discountCalc = applyDiscount(regularPrice, 0.1); // 10%[]
menu.forEach(item =>
   console.log(`${item.name} - 0000: ${regularCalc(item)}0, 0000: ${discountCalc(item)}0`)
);
const prices = menu.map(regularPrice);
const expensiveItems = menu.filter(item => item.price > 600);
console.log("0000000:", prices);
```

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```
// 00000000000
const calculateTotalWithTax = items =>
    items.reduce((total, item) => total + item.price, 0) * 1.1;
// กกกกกกกกกกกกก
let globalTaxRate = 0.1;
const calculateTotalWithDynamicTax = items => {
    const subtotal = items.reduce((total, item) => total + item.price, 0);
    return subtotal + (subtotal * globalTaxRate);
};
// 0000000000000000
const calculateTotalWithFlexibleTax = (items, taxRate) => {
    const subtotal = items.reduce((total, item) => total + item.price, 0);
    return subtotal + (subtotal * taxRate);
};
// 0000
const testCalculateTotalWithTax = () => {
    const items = [{name: '0000', price: 500}, {name: '00000', price: 700}];
    console.assert(calculateTotalWithTax(items) === 1320, 'calculateTotalWithTax failed');
};
const testCalculateTotalWithFlexibleTax = () => {
    const items = [{name: '000', price: 400}, {name: '0000', price: 300}];
    console.assert(calculateTotalWithFlexibleTax(items, 0.08) === 756, 'calculateTotalWithFlexibleTax failed');
testCalculateTotalWithTax();
testCalculateTotalWithFlexibleTax();
```

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```
const analyzeSales = salesData => {
    let totalSales = 0;
   let bestSellingItem = null;
   let maxQuantity = 0;
    for (let item of salesData) {
        totalSales += item.price * item.quantity;
       if (item.quantity > maxQuantity) {
            maxQuantity = item.quantity;
            bestSellingItem = item.name;
    const averageSales = salesData.length ? totalSales / salesData.length : 0;
    return [totalSales, averageSales, bestSellingItem];
};
// 000
const salesData = [
    {name: '000', price: 500, quantity: 10},
    {name: 'DD', price: 550, quantity: 15},
    {name: '0000', price: 700, quantity: 5}
];
console.log(analyzeSales(salesData));
// 00000000000000
const analyzeSaleWithTax = (salesData, taxRate = 0.1) => {
    const [totalSales, averageSales, bestSellingItem] = analyzeSales(salesData);
    return [totalSales * (1 + taxRate), averageSales * (1 + taxRate), bestSellingItem];
};
const applyTax = (amount, taxRate = 0.1) => amount * (1 + taxRate);
console.log(analyzeSalesWithTax(salesData));
```

```
// กกกกกกกก
const calculateTotalSales = salesData =>
    salesData.reduce((total, item) => total + item.price * item.quantity, 0);
const calculateAverageSales = salesData =>
    salesData.length ? calculateTotalSales(salesData) / salesData.length : 0;
const findBestSellingItem = salesData =>
    salesData.length ? salesData.reduce((best, item) =>
        item.guantity > best.guantity ? item : best
    ).name : null;
const analyzeSales = salesData => [
   calculateTotalSales(salesData),
   calculateAverageSales(salesData),
   findBestSellingItem(salesData)
1;
// 000
const salesData = [
    {name: '000', price: 500, quantity: 10},
    {name: '00', price: 550, quantity: 15},
    {name: '0000', price: 700, quantity: 5}
1;
console.log(analyzeSalesFunctional(salesData));
// 00000000000000
const applyTax = (amount, taxRate = 0.1) => amount * (1 + taxRate);
const analyzeSalesWithTax = (salesData, taxRate = 0.1) => [
    applyTax(calculateTotalSales(salesData), taxRate),
    applyTax(calculateAverageSales(salesData), taxRate),
   findBestSellingItem(salesData)
console.log(analyzeSalesWithTax(salesData));
```

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 - map@filter@reduce@@@@@@@
- 000000000
 - Object.assign
 - Immutable.js
- - JavaScript
 Dan Mantyla
 - Olicion by Michał Płachta

- ullet
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