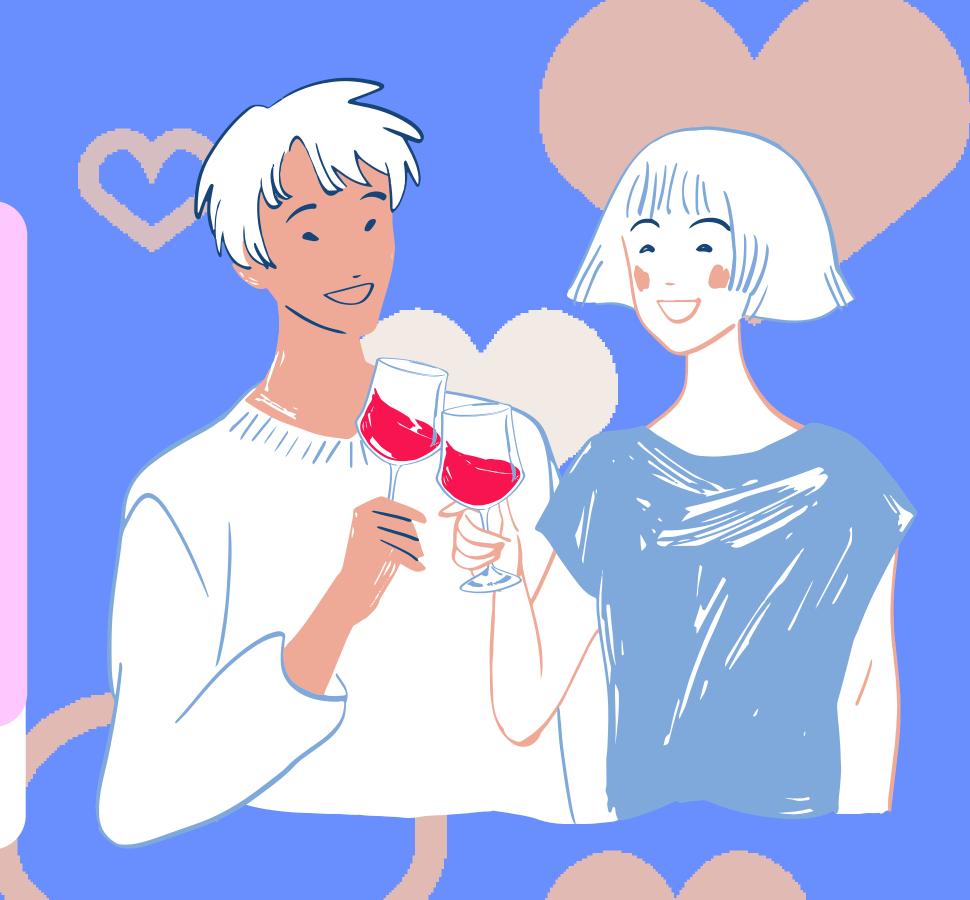
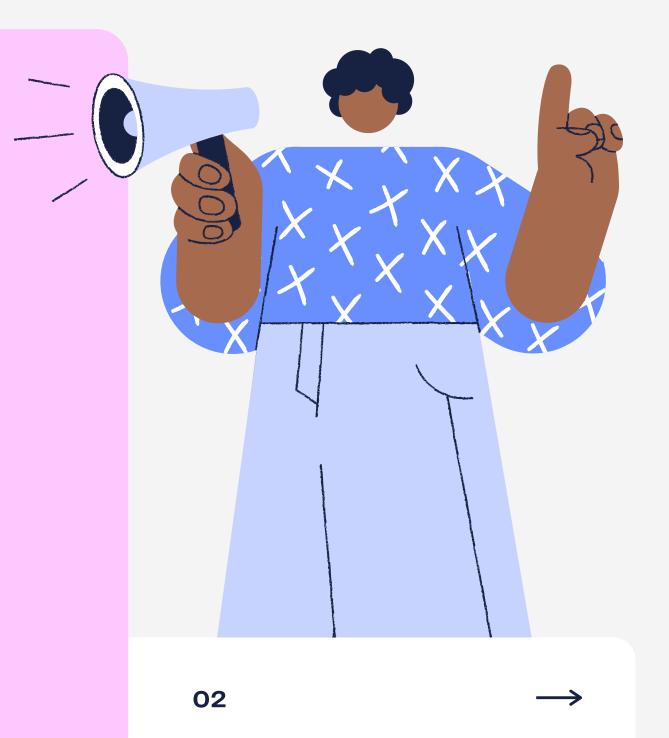
# Typescript a love story

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### **Up Ahead!**

- What is Typescript?
- Hesitations
- Benefits
- Creating a TS Project
- Converting a JS Project
- React + Typescript === <3</li>





### What is Typescript?

Typescript is a super-set of javascript, with a type system, that compiles to javascript.

- Compile time errors, not runtime errors
- Any valid Javascript is valid Typescript



### But why should i bother?

Great... we just created Java all over again.

Javascript works just fine for me.

Seems like a lot of hassle.

I would, but my project is already in javascript.

## Agreed, Java kinda sucks

We don't dislike Java because it's statically typed,
We dislike Java because it forces OOP!!!

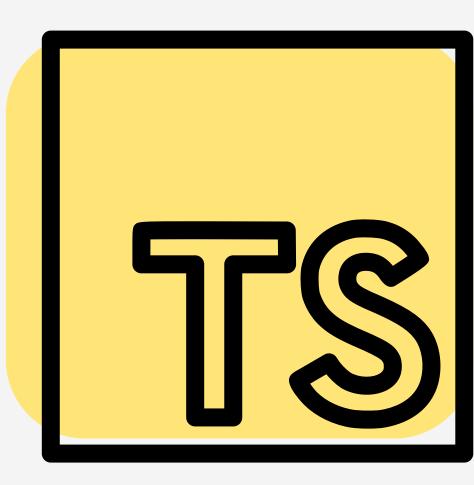
#### Also:

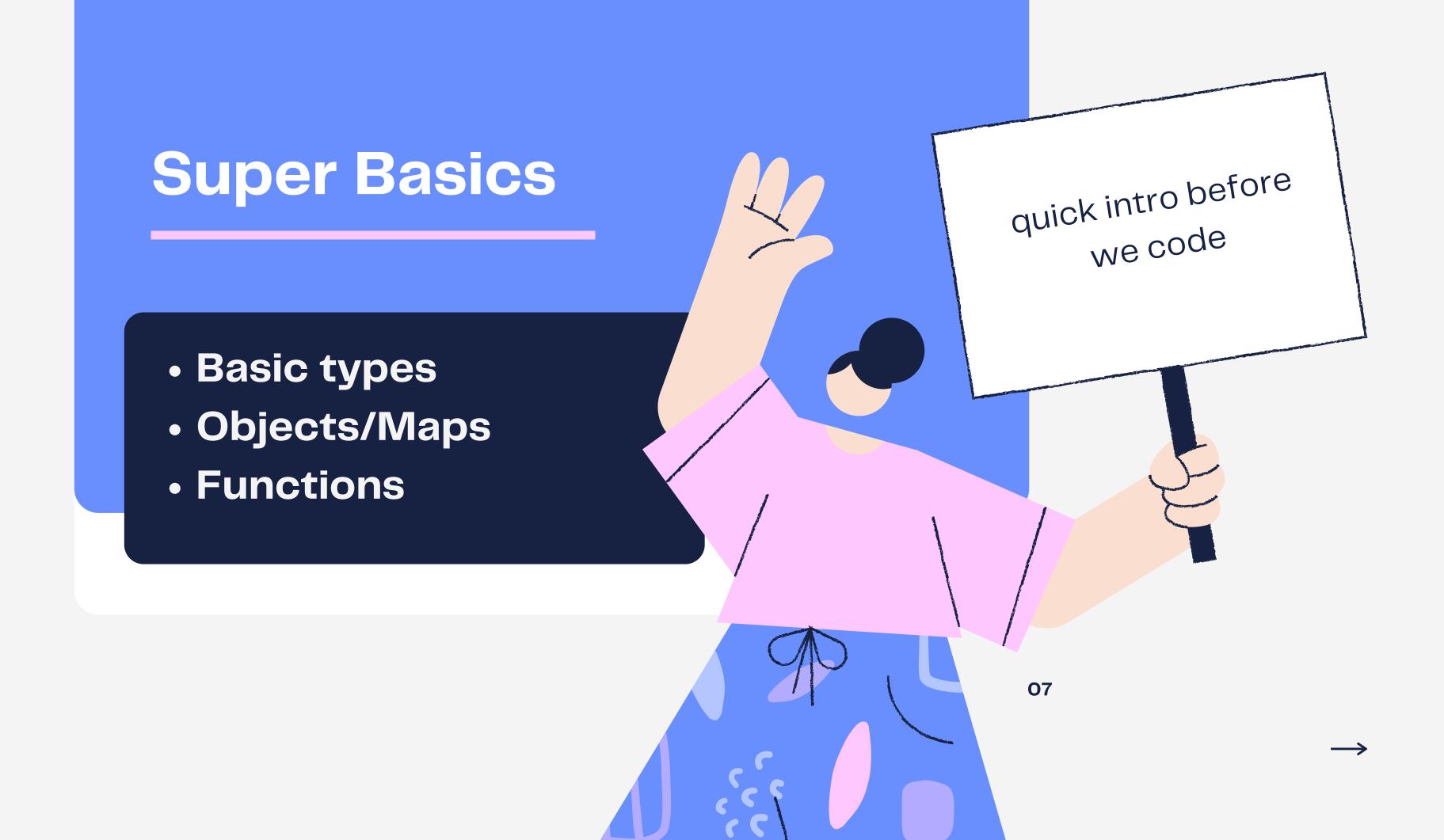
- TS's type system is waaay better
- TS has all the things you love about JS
- Just adds a buddy watching out for you

### **The Many Wonders**

- 1. Inference
- 2. No surprises at Runtime
- 3. Eliminates most of the reasons to reference package docs

...and many more!





### **Basic Types**

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```
// basic types
     type BasicTypesObject = {
         my_number: number;
         my_string: string;
         my_bool: boolean;
6
         my_num_list: number[];
         my_str_list: Array<string>;
         my_str_literal: 'hello' | 'world';
9
         my_tuple: [string, string, number];
10
         my_unknown: unknown;
         my_any: any;
```

```
1
    //defining vars
    let myStr: string = 'hello';
     type MyObject = {
        hello: string;
        world: number[];
                                      const myFunc: (boolean) \Rightarrow string = (amAlive) \Rightarrow \{
9
     let myObj: MyObject = {
                                           if (amAlive) return "Then you 💘 TS too!";
        hello: 'I 💘 TS',
                               16
                                           return "Sorry to hear that."
        world: [0,1,2,3]
                               18
                               19
                                      function mySecondFunc(name: string): string {
                               20
                                           return `I, ${name} love what I'm seeing so far!`;
```

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### Let's Code!

"A journey of a thousand miles begins with a single step."

-Confucius, probably