TypeScript Utilities

you should know

Pick

With Pick, you can pick a set of Keys from the given Type.

```ts
interface User {
  id?: number;
  firstname: string;
  lastname?: string;
  age: number;
  telephone?: number;
  twitter?: string;
}
type UserFullname =
Pick<User, 'firstname' | 'lastname'>;

const userName: UserFullname = {
  firstname: 'Chris',
  lastname: 'Bongers',
};
```

username variable is now used to ensure only those two fields are set.

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Omit

In contrast to Pick, you can use Omit to remove a set of Keys (basically omit a set of properties) from your Type.

```ts
interface User {
  id?: number;
  firstname: string;
  lastname?: string;
  age: number;
  telephone?: number;
  twitter?: string;
}
type UserPost = Omit<User, 'id'>;

const updateUser: UserPost = {
  firstname: 'Chris',
  lastname: 'Bongers',
  age: 32,
};
```

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Partial

This utility will make a new Type set with all the properties of the Type set, set to optional.

```ts
type User = {
    firstName: string,
    lastName: string
}
let firstUser:Partial<User> = {
    firstName: "John"
}
```

This is ultimately the same as redefining the User type to:

```ts
type User = {
    firstName?: string,
    lastName?: string
}
```

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Readonly

Readonly is used when you don't want the properties of an object reassigned. As in the name, it will set the properties of Type set to read-only.

```ts
interface User {
  id?: number;
  firstname: string;
  lastname: string;
  age?: number;
}
const user: Readonly<User> = {
  firstname: 'Chris',
  lastname: 'Bongers',
};
```

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Return Type

The utility type ReturnType helps by extracting the return type of a function.

```
function createPerson(): PersonInfo {
  return {
    name: "John Doe",
    age: 30,
  };
}
type T1 = ReturnType<typeof
createPerson>;
```

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Non-Nullable

It excludes null and undefined from the given Type.

```
type myType = string | number |
null | undefined
type noNulls =
NonNullable<myType>
```

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