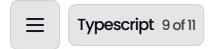
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# Step 9 - Enums

Enums (short for enumerations) in TypeScript are a feature that allows you to define a set of named constants.

The concept behind an enumeration is to create a humanreadable way to represent a set of constant values, which might otherwise be represented as numbers or strings.

#### Example 1 - Game

Let's say you have a game where you have to perform an action based on weather the user has pressed the up arrow key, down arrow key, left arrow key or right arrow key.

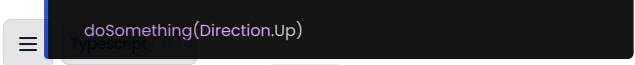
```
function doSomething(keyPressed) {
    // do something.
}
What should the type of keyPressed be?
```

Should it be a string? (UP, DOWN, LEFT, RIGHT)?

Should it be numbers? (1, 2, 3, 4)?

The best thing to use in such a case is an enum.

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This makes code slightly cleaner to read out.

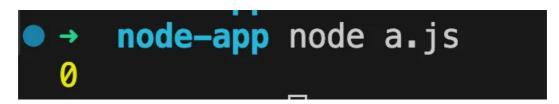
The final value stored at runtime is still a number (0, 1, 2, 3).

## 2. What values do you see at runtime for

#### Direction.UP ?

Try logging Direction.Up on screen

▶ Code



This tells you that by default, enums get values as 0 , 1, 2 ...

#### 3. How to change values?

```
enum Direction {
    Up = 1,
    Down, // becomes 2 by default
    Left, // becomes 3
    Right // becomes 4
}

function doSomething(keyPressed: Direction) {
    // do something.
}

doSomething(Direction.Down)
```

▶ Solution

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4. Can also be strings

```
enum Direction {
    Up = "UP",
    Down = "Down",
    Left = "Left",
    Right = 'Right'
    }

function doSomething(keyPressed: Direction) {
        // do something.
    }

doSomething(Direction.Down)
```

### 5. Common usecase in express

```
enum ResponseStatus {
    Success = 200,
    NotFound = 404,
    Error = 500
}

app.get("/', (req, res) => {
    if (!req.query.userId) {
        res.status(ResponseStatus.Error).json({})
    }
    // and so on...
    res.status(ResponseStatus.Success).json({});
})
```