Stack and heap are two areas in memory where data is stored.

The **stack** is used for **static memory allocation**, while the **heap** is used for **dynamic memory allocation**.

Static memory allocation means that the size and location of the memory is fixed at compile time, while **dynamic memory allocation** means that the size and location of the memory can change at runtime.

Primitive values (such as numbers, strings, booleans, etc.) are stored in the stack, while objects (such as arrays, functions, objects, etc.) are stored in the heap.

Solution to Copy an Object Without the Same Reference

1. Deep Copy of an Object

```
let newPerson = JSON.parse(JSON.stringify(person));
```

2. Shallow Copy of an Object

```
let newPerson = Object.assign({}, person);
let newPerson = { ...person };
```

Source