

# ERC-721 Contract State Variables

## ERC-721 Smart Contract

```
contract MyNFT is ERC721 { ... }
```

### **\_owners**

tokenId => owner

```
1 => 0xAlice
```

### **\_balances**

owner => count

```
0xAlice => 3
```

### **\_approvals**

tokenId => spender

```
1 => 0xBob
```

### **\_operators**

owner => op => bool

```
Alice=>OpenSea=>true
```

*Mappings provide  $O(1)$  lookup by key - efficient for sparse token IDs*