

# 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*