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learn-solidity-presentations / **7-structs** / **presentation.md** ⎘

Dan-Nolan init   002c6ec · 2 years ago

59 lines (45 loc) · 828 Bytes

Preview   Code   Blame   Raw   ⎘   ⬇   ✏   ▾   ☰

marp
true

Structs

- 🧺 group variables under a single name
- 💿 can be stored in the different data locations
- 🎂 can go within other structs/arrays/mappings

Example:

```solidity
struct User {
  bool isActive;
  uint balance;
}

User user = User(true, 0);
```

Grouping Variables

```solidity
contract Escrow {
    struct Agreement {
      address depositor;
      address beneficiary;
      address arbiter;
      uint paymentAmount;
```

```
    }
    Agreement agreement;

    constructor(Agreement memory _agreement) {
      agreement = _agreement;
    }
  }
```

Modeling Data

```
contract X {
    enum OrderStatus { Created, Paid, Shipped, Completed }

    struct Order {
        address buyer;
        address seller;
        uint256 amount;
        OrderStatus status;
    }

    Order[] orders;
}
```