

Payable

Payable functions in Solidity are functions that let a smart contract accept Ether. They help developers manage incoming Ether and take actions when it's received.

The keyword payable allows someone to send ether to a contract and run code to account for this deposit.

Where payable is used

1. **Payable function** → can receive ETH
2. **Payable address** → can be sent ETH
3. **Constructor / fallback / receive** → can receive ETH

The screenshot displays the Remix IDE interface. The top bar shows the version 1.4.1 and the date 21-11-2025. The left sidebar contains the 'DEPLOY & RUN TRANSACTIONS' panel, which shows the contract 'PayableExample - SimpleWallet.sol' and a warning about the EVM version (osaka). The 'Deployed Contracts' section shows the contract is deployed at address 0xE3C...6 with a balance of 9.0 ETH. The main editor shows the Solidity code for the 'PayableExample' contract, which includes a payable 'deposit' function and a 'getBalance' function. The bottom panel shows a transaction log with a call to 'PayableExample.getBalance()'.

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract PayableExample {
5
6     // Payable function can receive Ether
7     function deposit() public payable {
8         // msg.value contains the amount of ETH sent
9     }
10
11     // Get contract balance
12     function getBalance() public view returns (uint) {
13         return address(this).balance;
14     }
15 }
16
```