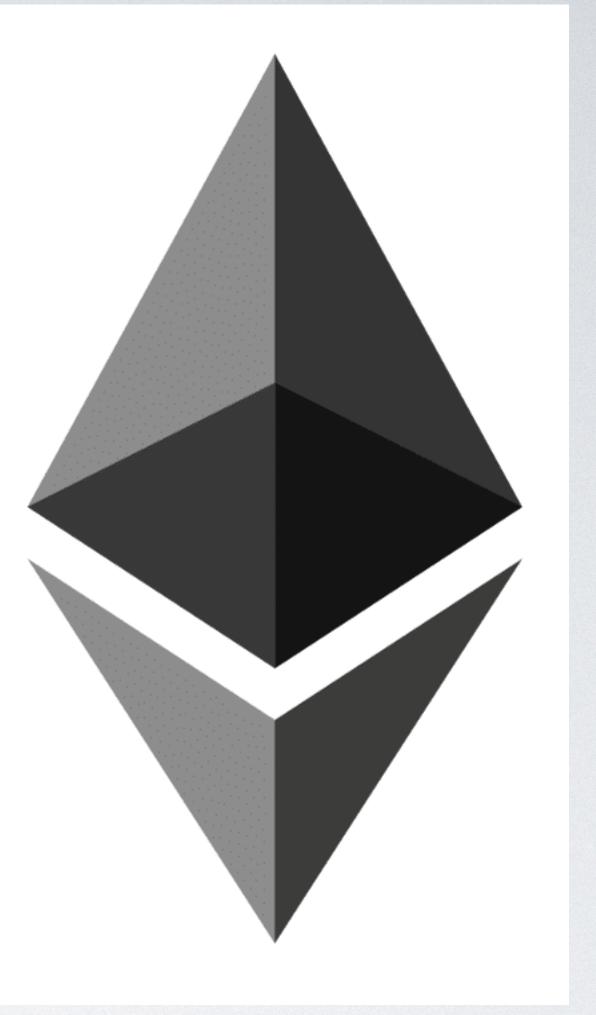
# ERC20



Token Standard

## ETHEREUM REQUEST FOR COMMENTS

"The ERC-20 introduces a standard for Fungible Tokens, in other words, they have a property that makes each Token be exactly the same (in type and value) of another Token. For example, an ERC-20 Token acts just like the ETH, meaning that 1 Token is and will always be equal to all the other Tokens."

## FUNCTIONS

```
Copy
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      function name() public view returns (string)
      function symbol() public view returns (string)
 2
      function decimals() public view returns (uint8)
 3
      function totalSupply() public view returns (uint256)
 4
 5
      function balanceOf(address _owner) public view returns (uint256
      balance)
      function transfer(address _to, uint256 _value) public returns (bool
 6
      success)
      function transferFrom(address _from, address _to, uint256 _value)
      public returns (bool success)
      function approve(address _spender, uint256 _value) public returns
 8
      (bool success)
      function allowance(address _owner, address _spender) public view
      returns (uint256 remaining)
10
```

## EVENTS

```
event Transfer(address indexed _from, address indexed _to, uint256 _value)

event Approval(address indexed _owner, address indexed _spender, uint256 _value)
```

### GETTERS

- function totalSupply() external view returns (uint256);
- Amount of tokens in existence
- function balanceOf(address account) external view returns (uint256);
- Amount of tokens owned by address
- function allowance (address owner, address spender) external view returns (uint256);
- · Remaining number of tokens that the spender will be allowed to spend on behalf of owner

## FUNCTIONS

- function transfer(address recipient, uint256 amount) external returns (bool);
- amount of tokens from the function caller address (msg.sender) to the recipient address
- function approve(address spender, uint256 amount) external returns (bool);
- Set the amount of allowance the spender is allowed to transfer from the function caller (msg.sender) balance.
- function transferFrom(address sender, address recipient, uint256 amount) external returns (bool);
- Moves the amount of tokens from sender to recipient using the allowance mechanism

### EVENTS

- event Transfer(address indexed from, address indexed to, uint256 value);
- This event is emitted when the amount of tokens (value) is sent from the from address to the to address.

\*minting or burning tokens

- event Approval(address indexed owner, address indexed spender, uint256 value);
- This event is emitted when the amount of tokens (value) is approved by the owner to be used by the spender.