

# Week10-NFT

NFT

NFT NFT

NFT

EIP

## Day1 - ERC721

[ERC-721](#) NFT , CryptoKit token ID token

```
interface ERC721 /* is ERC165 */ {  
    // events  
    event Transfer(address indexed _from, address indexed _to, uint256 indexed _tokenId);  
    event Approval(address indexed _owner, address indexed _approved, uint256 indexed  
_tokenId);  
    event ApprovalForAll(address indexed _owner, address indexed _operator, bool _approved);  
  
    function balanceOf(address _owner) external view returns (uint256);  
    function ownerOf(uint256 _tokenId) external view returns (address);  
    function safeTransferFrom(address _from, address _to, uint256 _tokenId, bytes data) external  
payable;  
    function safeTransferFrom(address _from, address _to, uint256 _tokenId) external payable;  
    function transferFrom(address _from, address _to, uint256 _tokenId) external payable;  
    function approve(address _approved, uint256 _tokenId) external payable;  
    function setApprovalForAll(address _operator, bool _approved) external;  
    function getApproved(uint256 _tokenId) external view returns (address);  
    function isApprovedForAll(address _owner, address _operator) external view returns (bool);  
}
```

1. transferFrom
2. safeTransferFrom
3. approve
4. setApprovalForAll

1. balanceOf
2. ownerOf
3. getApproved
4. isApprovedForAll

ERC721

1. metadata
- 2.
- 3.
- 4.

## Day2 ERC1155

ERC1155 ERC20 , token ERC721 tokenId

ERC1155 mint

```
interface ERC1155 /* is ERC165 */ {
    event TransferSingle(address indexed _operator, address indexed _from, address indexed
    _to, uint256 _id, uint256 _value);
    event TransferBatch(address indexed _operator, address indexed _from, address indexed _to,
    uint256[] _ids, uint256[] _values);
    event ApprovalForAll(address indexed _owner, address indexed _operator, bool _approved);
    event URI(string _value, uint256 indexed _id);

    function safeTransferFrom(address _from, address _to, uint256 _id, uint256 _value, bytes
    calldata _data) external;
    function safeBatchTransferFrom(address _from, address _to, uint256[] calldata _ids,
    uint256[] calldata _values, bytes calldata _data) external;
    function balanceOf(address _owner, uint256 _id) external view returns (uint256);
    function balanceOfBatch(address[] calldata _owners, uint256[] calldata _ids) external view
    returns (uint256[] memory);
    function setApprovalForAll(address _operator, bool _approved) external;
    function isApprovedForAll(address _owner, address _operator) external view returns (bool);
}
```

## Day3 ERC2981

ERC2981 NFT NFT NFT ERC721 ERC1155 token.

royaltyInfo

tokenId

```
interface IERC2981 is IERC165 {  
    function royaltyInfo(  
        uint256 _tokenId,  
        uint256 _salePrice  
    ) external view returns (  
        address receiver,  
        uint256 royaltyAmount  
    );  
}
```

## Day4 SBT

SBT

Token

NFT

KYC

SBT

EIP

EIP-4973

EIP-5114

ERC721S

Solv Protocol

EIP-3525

SBT -

## Day5 ERC3525

“ ”

ERC-3525

ERC-1155

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NFT

Revision #6

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