## Hardhat NFTs

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                    CallAnything.sol X
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         pragma solidity ^0.8.7;
         contract CallAnything {
             address public s_someAddress;
             uint256 public s_amount;
             function transfer(address someAddress, uint256 amount) public {
                 s_someAddress = someAddress;
                 s_amount = amount;
             function getSelectorOne() public pure returns (bytes4 selector) {
                 selector = bytes4(keccak256(bytes("transfer(address,uint256)")));
             function getDataToCallTransfer(address someAddress, uint256 amount)
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                 returns (bytes memory)
                 return abi.encodeWithSelector(getSelectorOne(), someAddress, amount);
             function callTransferFunctionDirectly(address someAddress, uint256 amount)
                 (bool success, bytes memory returnData) = address(this).call(
                     abi.encodeWithSelector(getSelectorOne(), someAddress, amount)
                 return (bytes4(returnData), success);
             function callTransferFunctionDirectlyTwo(address someAddress, uint256 amount)
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         pragma solidity ^0.8.8;
         import "@openzeppelin/contracts/token/ERC721/ERC721.sol";
         contract BasicNft is ERC721 {
             string public constant TOKEN_URI =
                 "ipfs://bafybeig37ioir76s7mg5oobetncojcm3c3hxasyd4rvid4jqhy4gkaheg4/?filename=0-PUG.json";
             uint256 private s_tokenCounter;
             constructor() ERC721("Dogie", "DOG") {
                 s tokenCounter = 0;
             function mintNft() public returns (uint256) {
                 _safeMint(msg.sender, s_tokenCounter);
                 s_tokenCounter = s_tokenCounter + 1;
                 return s_tokenCounter;
             function tokenURI(uint256 tokenId) public view override returns (string memory) {
                 return TOKEN URI;
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         pragma solidity ^0.8.8;
         import "@openzeppelin/contracts/token/ERC721/ERC721.sol";
         import "@openzeppelin/contracts/access/Ownable.sol";
         import "@chainlink/contracts/src/v0.8/interfaces/AggregatorV3Interface.sol";
         import "base64-sol/base64.sol";
         import "hardhat/console.sol";
         contract DynamicSvgNft is ERC721, Ownable {
             uint256 private s_tokenCounter;
             string private s_lowImageURI;
             string private s_highImageURI;
             mapping(uint256 => int256) private s_tokenIdToHighValues;
             AggregatorV3Interface internal immutable i_priceFeed;
             event CreatedNFT(uint256 indexed tokenId, int256 highValue);
             constructor(
                 address priceFeedAddress,
                 string memory lowSvg,
string memory highSvg
              ) ERC721("Dynamic SVG NFT", "DSN") {
                  s tokenCounter = 0;
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         pragma solidity ^0.8.7;
         contract Encoding {
             function combineStrings() public pure returns (string memory) {
                 return string(abi.encodePacked("Hi Mom! ", "Miss you."));
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             function encodeStringPacked() public pure returns (bytes memory) {
                 bytes memory someString = abi.encodePacked("some string");
                 return someString;
             function encodeStringBytes() public pure returns (bytes memory) {
                 bytes memory someString = bytes("some string");
                 return someString;
             function decodeString() public pure returns (string memory) {
                 string memory someString = abi.decode(encodeString(), (string));
                 return someString;
             function multiEncode() public pure returns (bytes memory) {
                 bytes memory someString = abi.encode("some string", "it's bigger!");
                 return someString;
```