

BABY SEALS

PROYECTO BLOCKCHAIN **RED CELO - PLATZI**





Tabla de contenido





Introducción proyecto

Equipo | proyecto Herramientas



Desarrollo de NFT

- 1. ADN
- 2. IPFS
- 3. JSON
- 4. Contrato
- 5. Funcionalidad



Desarrollo de contrato Airdrop

- Contrato
- 2. liquidity



Despliegue en red celo

- 1. Front end
- 2. Ventajas y desventajas
- 3. conclusiones



Equipo

Elvia Pineda

Estudiante de Programación Web en **Colombia**, entusiasta, autodidacta y con muchas ganas de practicar todo lo aprendido.

Emily Perez

Estudiante de Ing. de Software en la República Dominicana, amante de python, diseño de UX/UI y de las focas

Luis Fernando

Ingeniero industrial de **Colombia** y desarrollador web entusiasta en blockchain.























AIRDROP

PROYECTO BABY SEALS

Es un proyecto **NFT** con la finalidad de donar dinero recaudado a organizaciones ambientales y ser parte de comunidades.

Los diferentes NFT creados proporcionarán un **acceso** a una comunidad para ir a lugares a colaborar en la lucha ambiental. (**en construcción**)

Como incentivo existirá un **airdrop** y varias funcionalidades para los primeros visitantes de la página. https://subtle-sable-fbd574.netlify.app/

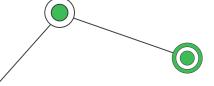


Herramientas

HERRAMIENTAS

- Remix IDE
- Celo wallet
- Alfajores tesnet
- Explorador de bloques celo
- contract kit
- Hardhat
- HashLips
- Web3.js







CUERPO

OJOS



ojos tiernos



ojos de corazon

ojos normales

ojos tristes







BOCA

una boca sacando la lengua

una mostrando los dientes enojado

una boca triste

una boca de gatico :3

una sonrisa linda





COLOR

ACCESORIO



una bufanda



un gorrito de

inverno

unas orejeras

un sombrero vaquero







FONDO



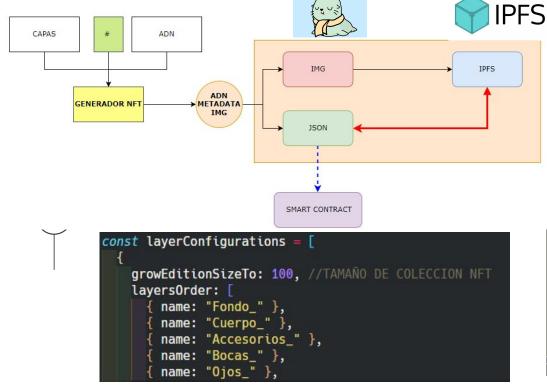








ART_ENGINE BY hashlips



```
"name": "BABY SEALS #1",
"description": "PLATZI CELO - RETOS",
"image": "https://ipfs.io/ipfs/QmV1bp1EgqNnonS8S2HYQA2jzwxBSvYYJ9E8Wo8WhJYL3u/1.png",
"dna": "0cb3912fd365ee9e34a287681b7290a561aada15",
"edition": 1,
"date": 1654927194524.
"attributes": [
   "trait_type": "Fondo_",
   "value": "fondo amarillo'
   "trait_type": "Cuerpo_",
    "value": "cuerpo rosado"
   "trait_type": "Accesorios_",
    "value": "acc bufanda"
   "trait_type": "Bocas_",
   "value": "boca_vampiro"
   "trait_type": "Ojos_",
    "value": "ojos_corazon"
"compiler": "HashLips Art Engine"
```



HARD HAT + CELO + TS +JS

NFT

Smart contract

React Minting Dapp Etheris

AIRDROP

Smart contract

HTML + WEB 3

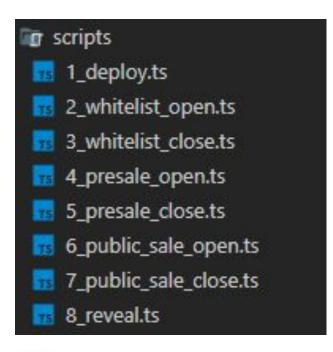






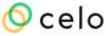


HARDHAT + CELO + TS +JS



```
networks: {
  truffle:
   url: 'http://localhost:7545/rpc',
   timeout: 60000,
   gasMultiplier: DEFAULT_GAS_MULTIPLIER,
  alfajores:
   url: 'https://alfajores-forno.celo-testnet.org',
   chainId: 44787,
   timeout: 60000.
   gasMultiplier: DEFAULT GAS MULTIPLIER,
   accounts: ['366ace4d1b9377f8cf3c38fe89ebc2e2c616a
  rinke:
   url: 'https://rinkeby.infura.io/v3/9aa3d95b3bc440
    chainId: 4,
   timeout: 60000,
   gasMultiplier: DEFAULT GAS MULTIPLIER,
   accounts: ['366ace4d1b9377f8cf3c38fe89ebc2e2c616a
```







HARDHAT + CELO + TS +JS



```
contractName: 'BabySeals',
tokenName: 'BabySeals',
tokenSymbol: 'BS',
hiddenMetadataUri: 'https://ipfs.io/ipfs/QmTJKqRnMHqf2NtmYKEcHfKvQg28cRfvdiBzAjk1qawsJA/',
maxSupply: 100, /// LOS NFT GENERADOS
whitelistSale: { You, 5 days ago * Proyecto cargado ...
 price: 0.1,
 maxMintAmountPerTx: 1,
preSale: {
 price: 0.2,
 maxMintAmountPerTx: 2,
publicSale: {
 price: 0.3,
 maxMintAmountPerTx: 5,
contractAddress: "0x648B5b5CEd33b4CDBa10d9aa059FffA8156085B6",
marketplaceIdentifier: 'my-nft-token',
marketplaceConfig: Marketplaces.openSea,
whitelistAddresses,
```



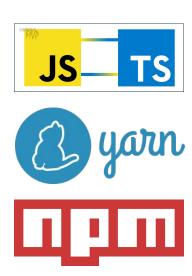
CONTRATO + OPENZEPPELIN

```
pragma solidity >= 0.8.9 < 0.9.0:
import 'erc721a/contracts/ERC721A.sol';
import '@openzeppelin/contracts/access/Ownable.sol';
import '@openzeppelin/contracts/utils/cryptography/MerkleProof.sol';
import '@openzeppelin/contracts/security/ReentrancyGuard.sol';
contract BabySeals is ERC721A, Ownable, ReentrancyGuard {
 using Strings for uint256;
 bytes32 public merkleRoot;
 mapping(address >> bool) public whitelistClaimed;
 string public uriPrefix = '';
  string public uriSuffix = '.json';
  string public hiddenMetadataUri;
 uint256 public cost;
 uint256 public maxSupply;
 uint256 public maxMintAmountPerTx;
```



CONTRATO + OPENZEPPELIN

```
pragma solidity >=0.8.9 <0.9.0;
import 'erc721a/contracts/ERC721A.sol';
import '@openzeppelin/contracts/access/Ownable.sol';
import '@openzeppelin/contracts/utils/cryptography/MerkleProof.sol';
import '@openzeppelin/contracts/security/ReentrancyGuard.sol';
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 string public uriPrefix = '';
 string public uriSuffix = '.json';
 string public hiddenMetadataUri;
 uint256 public cost;
 uint256 public maxSupply;
 uint256 public maxMintAmountPerTx:
```





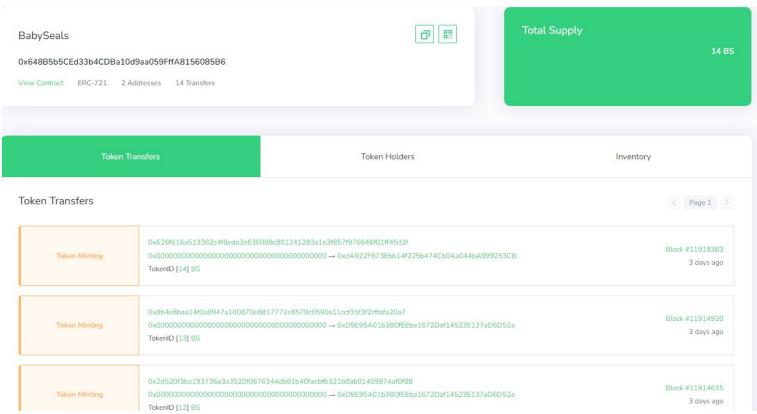
OpenZeppelin

'deploy": "hardhat run scripts/1_deploy.ts", '*verify*": "hardhat verify --constructor-args config/ContractArguments.ts". 'whitelist-open": "hardhat run scripts/2 whitelist open.ts", 'whitelist-close": "hardhat run scripts/3_whitelist_close.ts", presale-open": "hardhat run scripts/4_presale_open.ts", 'presale-close": "hardhat run scripts/5_presale_close.ts", 'public-sale-open": "hardhat run scripts/6_public_sale_open.ts", 'public-sale-close": "hardhat run scripts/7_public_sale_close.ts", 'reveal": "hardhat run scripts/8 reveal.ts"



CONTRATO - <u>0x648B5b5CEd33b4CDBa10d9aa059FffA8156085B6</u>





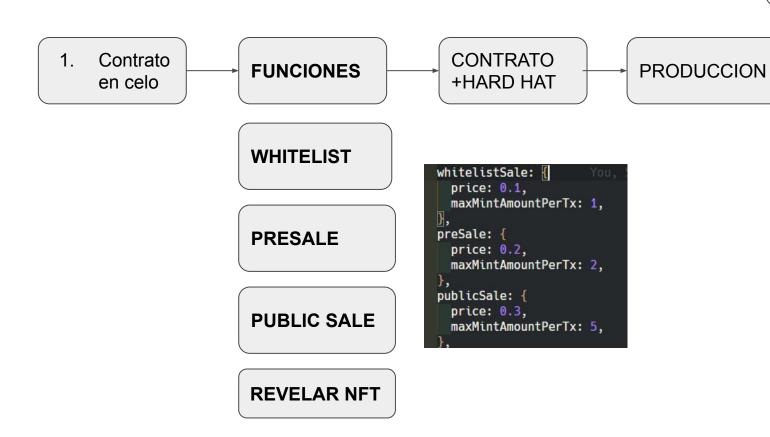




0x648B5b5CEd33b4CDBa10d9a		nomno					
Token		BabySeals (BS)					
Creator		0xbc67d3-328ba3 at <u>0x3123e1-77db6b</u>					
Balance		4.2 CELO					
1 Tokens		1 token 🕶 (\$0.00	USD)				
1 Transactions		18 Transactions					
1 Transfers		13 Transfers					
⑤ Gas Used		1,034,808					
1 Last Balance Update		11919383					
Transactions Token	Transfers	Tokens	Internal Transactions	Coin Balance History	Downtime	Logs	
Transactions					Filte	r: All •	Pag
	0x626f616a513362c4f8eda3e636088c801241283a1e3f857f976646f01ff45d3f Mint						

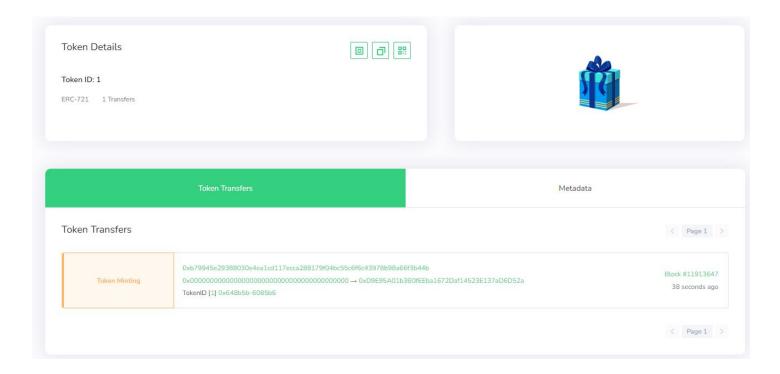


CONTRATO





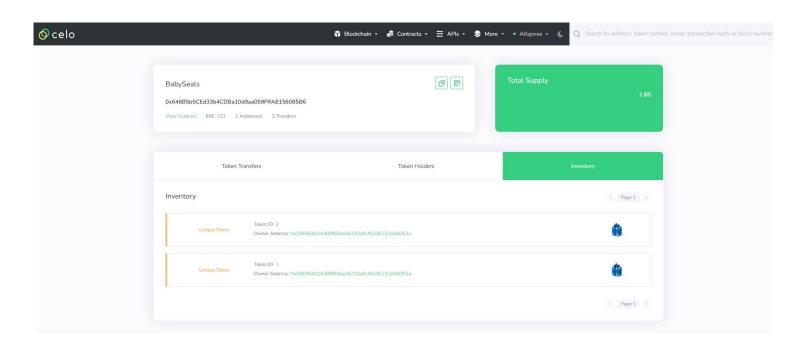
CONTRATO – hidden NFT







CONTRATO – hidden NFT







CONTRATO -

Unique Token	Token ID: 10 Owner Address: 0xD9E95A01b3B0fEEba1672Daf14523E137aD6D52a	
Unique Token	Token ID: 9 Owner Address: 0xD9E95A01b3B0fEEba1672Daf14523E137aD6D52a	
Unique Token	Token ID: 8 Owner Address: 0xD9E95A01b3B0fEEba1672Daf14523E137aD6D52a	
Unique Token	Token ID: 7 Owner Address: 0xD9E95A01b3B0fEEba1672Daf14523E137aD6D52a	
Unique Token	Token ID: 6 Owner Address: 0xD9E95A01b3B0fEEba1672Daf14523E137aD6D52a	
Unique Token	Token ID: 5 Owner Address: 0xD9E95A01b3B0fEEba1672Daf14523E137aD6D52a	
Unique Token	Token ID: 4 Owner Address: 0xD9E95A01b3B0fEEba1672Daf14523E137aD6D52a	
Unique Token	Token ID: 3 Owner Address: 0xD9E95A01b3B0fEEba1672Daf14523E137aD6D52a	
Unique Token	Token ID: 2 Owner Address: 0xD9E95A01b3B0fEEba1672Daf14523E137aD6D52a	•





AIRDROP

Contrato Token:

0x9de902f7128196690b793A7 3bAF00A8AC728D493

NOMBRE BABYSEALS

SYMBOL BS

CANTIDAD INICIAL 1000

FUNCION AIRDROP TOKEN 10

```
1  // SPDX-License-Identifier: MIT
2  pragma solidity >=0.7.0 <0.9.0;
3
4  contract BABYSEALS {
5
6  //DATOS DE TOKEN
7     string public name = "BABYSEALS";
8     string public symbol = "BS";
9     uint256 public totalSupply_ = 1000 * 1 ether; // 1000 TOKENS
10     uint8    public decimals = 18;
11
12  // EVENTO PARA TRANSFERIR
13
14     event Transfer(
15         address indexed _from,
16         address indexed _to,
17         uint256 _value
18     );
19</pre>
```

```
69  //CANTIDAD DE TOKEN PARA TRANSFERIR
61
62    function airDropToken() public {
63        balances[msg.sender] += 10 * 1 ether;
64        totalSupply_ += 10 * 1 ether;
65    }
66
67    function transferFrom(address _from, address _to, uint256 _value) public returns (bool success) {
68        require(_value <= balances[_from]);
70        balances[_from] -= _value;
71        balances[_to] += _value;
72        allowed[_from][msg.sender] -= _value;
73        emut Transfer(_from, _to, _value);
74        return true;
75    }
76
77    function allowance(address _owner, address _spender) public view returns (uint256 remaining) {
78        return allowed[_owner][_spender];
79    }
80
81</pre>
```





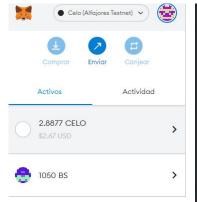
AIRDROP + WEB3.JS

Airdrop Platzi (TOKEN BS)

Contrato Token: 0x9de902f7128196690b793A73bAF00A8AC728D493

Reclama 10 Token BS

Airdrop listo ! Total De Supply: 1050









FRONT END

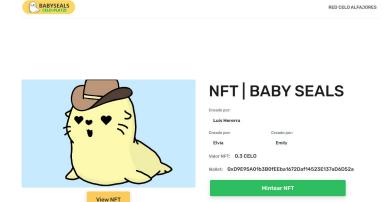


```
import React from 'react';
import { ethers, BigNumber } from 'ethers'
import { ExternalProvider, Web3Provider } from '@ethersproject/providers';
import detectEthereumProvider from '@metamask/detect-provider';
import NftContractType from '../lib/NftContractType';
import CollectionConfig from '../../../smart-contract/config/CollectionConfig';
import NetworkConfigInterface from '../../../smart-contract/lib/NetworkConfigInterface';
import CollectionStatus from './CollectionStatus';
import MintWidget from './MintWidget';
import Whitelist from '../lib/Whitelist';
```

ethers.js



FRONT END





Precio Total: 0.3 CELO

Mint



CONCLUSIONES

- La web 2.0 y la web 3.0 comparten aun tecnologías
- Celo es una blockchain extremadamente económica para desplegar contratos y nada congestionada muy rápida al desplegar un contrato.
- La testnet de **alfajores** comparte gran similitud con su mainnet
- Celo tiene un scan integrado con view para ntfs
- Las Dapps integran todo un ecosistema de tecnologías, arte, planeación y uno que otro dolor de cabeza pero son bastante cool.
- Desplegar un contrato funcional es la clave para el éxito, hay pequeñas variaciones entre redes leer la documentación y colaborar con las comunidades.









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@de_botha

Creator of HashLips @hashlipsnft

