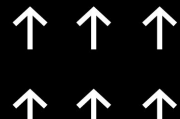
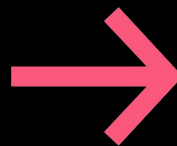
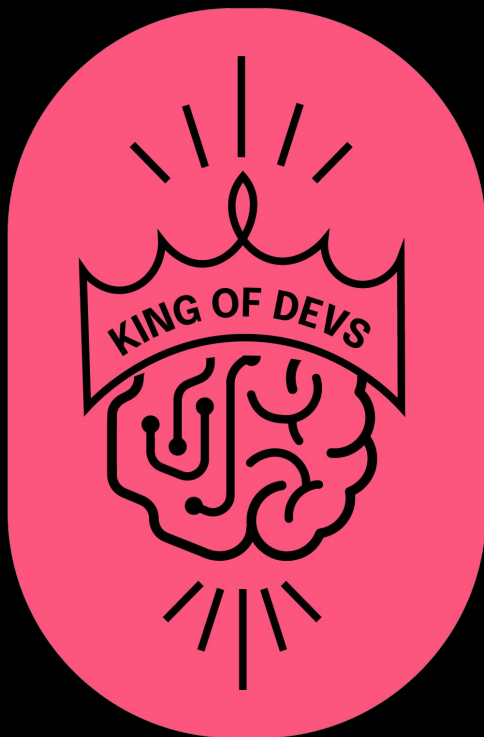


KING OF DEVs



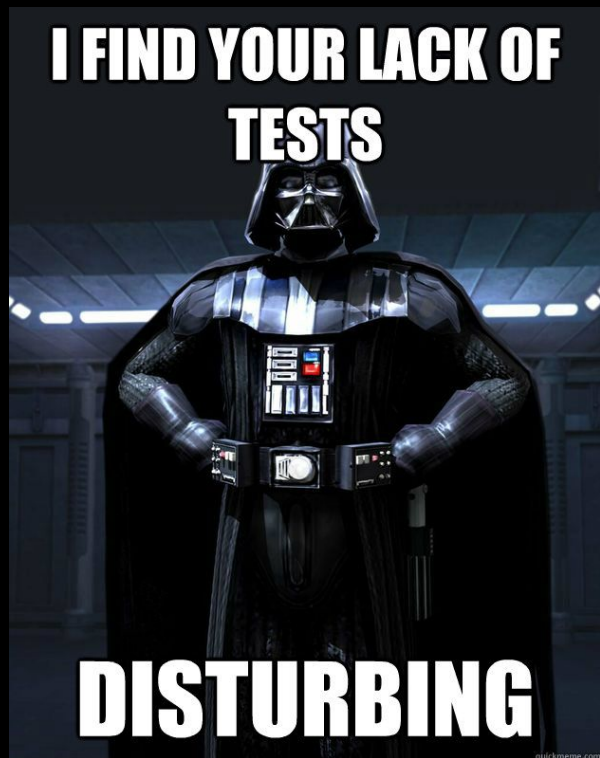
KING OF



WORKSHOP DAY 2

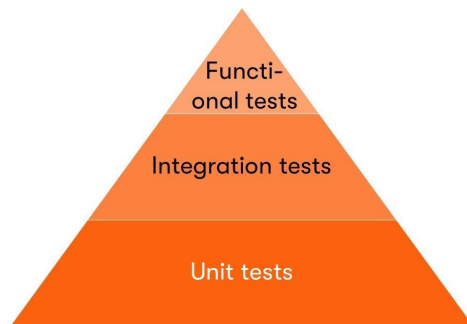
TEST, TEST AND TEST





LA IMPORTANCIA DE TESTEAR

- Detección temprana de bugs, ergo arreglos más simples
- Unit tests => Mantenimiento más seguro y simplificado
- Confianza en que el código hace lo que se espera. (Y en que no hace lo que se espera que no haga)
- Auto-documentación



Contract Name	Size (KiB)	Change (KiB)
Constant	0.149	
Immutable	0.161	
List	1.011	
LockV4	0.483	
LockV5	0.605	
LockV6	0.656	
LockV7	0.489	
LockV8	0.471	
NoConstants	0.142	
OzStoppablePattern	0.525	
StoppablePattern	0.420	

CONTRACT SIZER

Este plugin permite obtener el tamaño de los contracts a deployar con hardhat.

- NPM:
<https://www.npmjs.com/package/hardhat-contract-sizer>
- Repo:
<https://github.com/ItsNickBarry/hardhat-contract-sizer>

Como ejecutarlo?

- `npx hardhat size-contracts --no-compile`

Tip: Creense un script en el package.json, para correrlo más fácil

all files development/

8.7% Statements 2/23 0% Branches 0/8 16.67% Functions 3/18 7.69% Lines 2/26

File	Statements	Branches	Functions	Lines
OzStoppable.sol	0%	0/1	100%	0/0
constants.sol	100%	2/2	100%	0/0

File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Lines
development/	8.7	0	16.67	7.69	
OzStoppable.sol	0	100	0	0	18
constants.sol	100	100	100	100	
list.sol	0	100	0	0	... 57,58,60,61
stoppablePattern.sol	0	0	0	0	... 20,24,25,29
evolution/	18.42	18.75	16.67	18.42	
v4.sol	0	0	0	0	... 18,19,21,23
v5.sol	0	0	0	0	... 21,22,24,26
v6.sol	0	0	0	0	... 38,39,41,43
v7.sol	0	0	0	0	... 28,29,31,33
v8.sol	100	100	100	100	
All files	14.75	15	16.67	14.06	

```

24     owner = msg.sender;
25   }
26
27   function withdraw() public {
28     require(block.timestamp >= unlockTime, "You can't withdraw yet");
29     require(msg.sender == owner, "You aren't the owner");
30
31     emit Withdrawal(address(this).balance, block.timestamp);
32
33     owner.transfer(address(this).balance);
34   }
35 }
36

```

TEST COVERAGE

Nos permite generar un informe del test coverage actual. El informe se puede ver desde la misma consola, o incluso se puede generar un informe HTML.

- NPM:
<https://www.npmjs.com/package/solidity-coverage>
- Repo:
<https://github.com/sc-forks/solidity-coverage>

Como ejecutarlo?

- `npx hardhat coverage`
`[command-options]`



GRACIAS

think & dev

