

integer cannot be negative

up at which point

not

your transaction can process

— The lower you set the gas limit the less comp

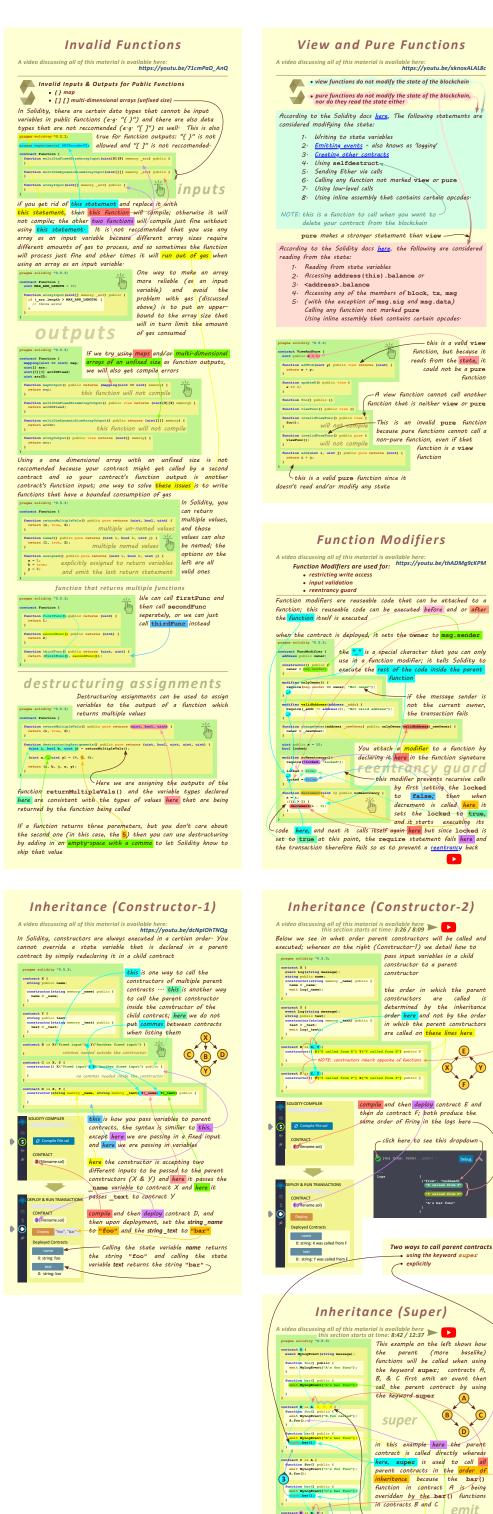
set, the more Ether you

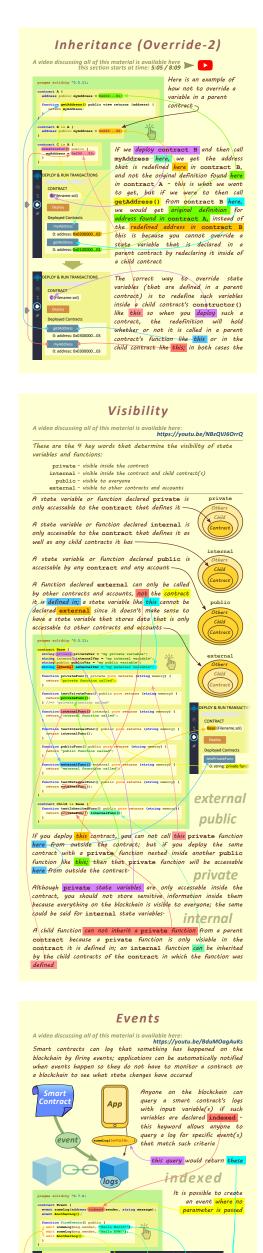
your transaction will be processed faster

will have to spend, bu

After your transaction is sent, and included in a block, your account will

be refunded for any unspent gas





information on logs is cheaper than storing it on smart contracts

Constructor

e blockchain; if it accepts input variables, they are entered up

address public owner; uint public createdAt;

owner = msg.sender;
createdAt = block.timestamp;

constructor is an optional function

the contract was deployed to the blockchain

like msg.sender & block.timestamp -----

ctor() has access to special variable:

Inheritance (Override-1)

contract B is inheriting from contract A, and they both have a

function with the same name; normally, the function in contract B would overide the one in contract A if they have the same name, but here, contract B' function accepts an imput variable whereas contract B's function accepts an imput variable whereas contract B's function/does not; therefore, contract B's will have two

ion (estions/contractions)) public pure returns (string memory)

you go to the deploy window,
make sure to specify that you
are deploying contract B

One way to pass variables from a

constructor(string memory \_name) A(\_name) public {

https://youtu.be/Q5\_Gmm\_IZS
The order of inheritance
determines which

Solidity will perform a

will return A because it will first look in itself (1) then search from right

event keyword and are capitalized by convention; you can pass parameters that you want the

event to log in the most baselike contract where the event is found and those parameters will get passed to the more

e returns (string memory) (
contract is inherited;
t baselike (doesn't inherit)
according to the docs,

set the variable upon the initial deployment of the smart contract such that you would define the variable here upon

deployment - this input field will not exist if you compile the version of contract B shown here

Inheritance (Order)

(the reverse in Python)

meaning that baselike = less inheritance while,
derrived = more inheritance; this gives you this
and vice-versa

In the example above, contract A and contract B are both equally baselike, so contract C inherits whichever

one is listed last in the <u>order</u> if this order has contracts listed out of order (from most base-like to most derived) then the Solidity compiler might throw an error, otherwise the <u>order of inheritance</u> will go from right to <u>left</u> for functions, but left to right (the

react A (muchion fixed) public pure returns (string memory) ( inherit from left to right return A:

Inheritance (Events)

Solidity uses events to log things on the blockchain, and applications can be notified when events have been emitted so that those same applications don't have to constantly monitor the contract (on the blockchain) to see if such changes have occured

contract D is S D A (
//-> foo requires "A" most derrived (inherits the most)

tract D is A, C {

Deploy string\_name Deployed Contracts
foo
0: string: A

— here, X, Y, & Z are hypothetical

of the same name available to it when deployed

createdAt

0: uint256: 1

owner owner

getContractNa... uint 2

getContractNa...

variables is like this— ··the later case is

used when you want to











github.com/Richard-Burd/solidity-sandbox last updated @ 12:59pm on 26/July/2021 by Richard Burd rick.a.burd@gmail.com