

Ether and Wei

integer cannot be negative

units can only be added after literal

we're specifying 2 gwei because we're not in a hurry to have our transaction

up at which point

not

enough

limit, the more computation your transaction can process

— The lower you set the gas

will have to spend, but your transaction will be processed faster

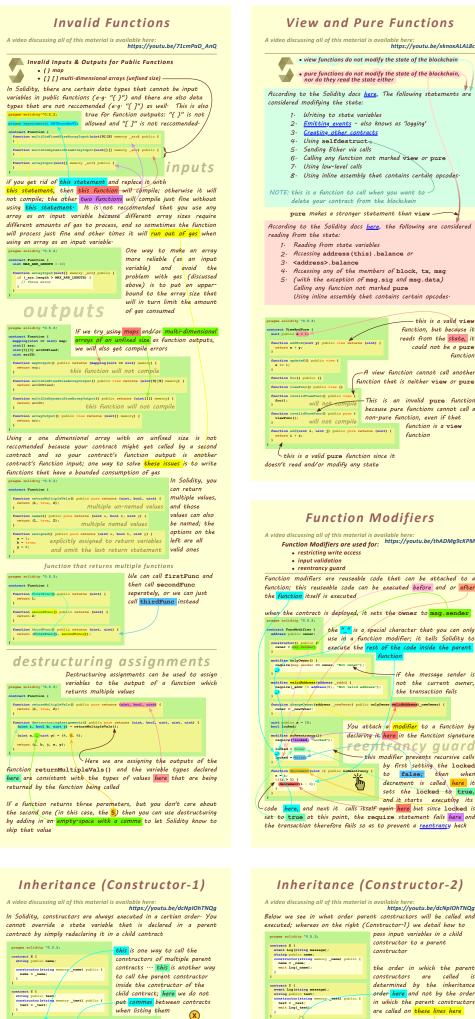
be refunded for any unspent gas

time low gas price = long waiting time

When you send a transaction to the real Ethereum network you set the gas price, but gas price in remix is fixed at 1 wei, and we can verify that by checking the output of this function —

low gas limit = few computations

computations



this is how you pass variables to parent contracts, the syntax is similiar to this, except here we are passing in a fixed input and here we are passing in variables

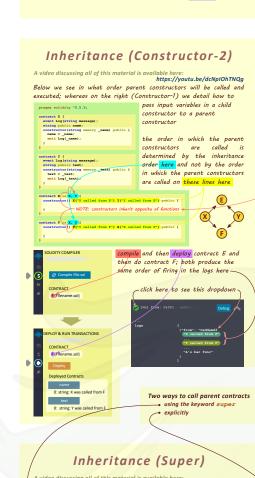
here the constructor is accepting two different inputs to be passed to the parent constructors (X & Y) and here it passes the name variable to contract X and here it

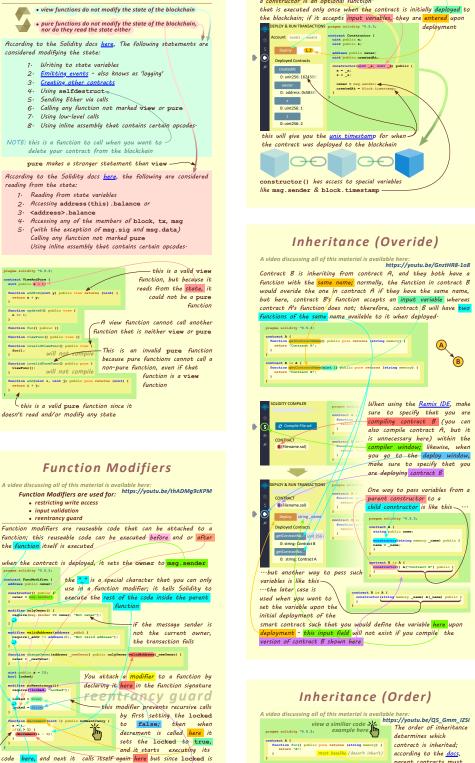
compile and then deploy contract D, and

then upon deployment, set the string_name to "foo" and the string_text to "bar"

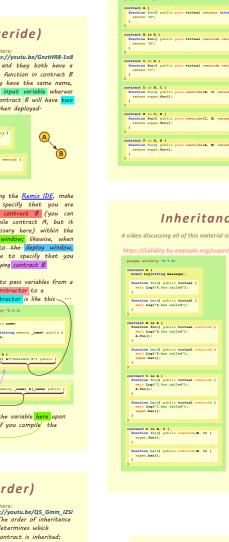
Calling the state variable name returns the string "foo" and calling the state variable text returns the string "bar"

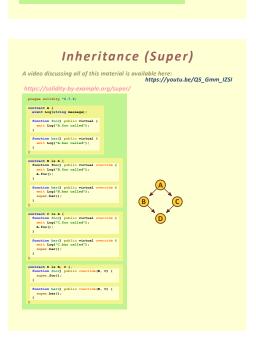
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Constructor



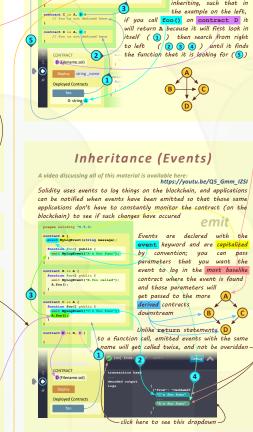


Inheritance (Constructor)

A video discussing all of this material is available here: https://youtu.be/GnztHR8-108

contract C is X, Y {
 constructor(string memory _name, string memory _text) X(_name) Y(_text)

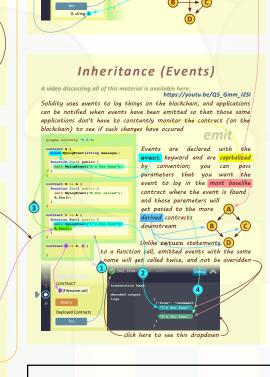


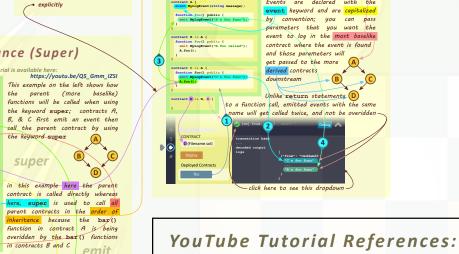


ntract C is x 0 8 (meaning that baselike = less inheritance while derrived = more inheritance; this gives you this

both equally baselike, so contract C inherits whichever one is listed last in the orders 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 order of inheritance will go from right to left for functions, but left to right (the contract of the contract o

depth-first search when inheriting, such that in





Learn Solidity (0.5) by Examples
Smart Contract Programmer

github.com/Richard-Burd/solidity-sandbox last updated @ 1:31pm on 12/July/2021 by Richard Burd rick.a.burd@gmail.com

Both of these videos discuss this particular block of code:

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https://youtu.be/GnztHR8-108 Learn Solidity

https://youtu.be/Q5_Gmm_IZSI Learn Solidit

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Solidity Illustrated