

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

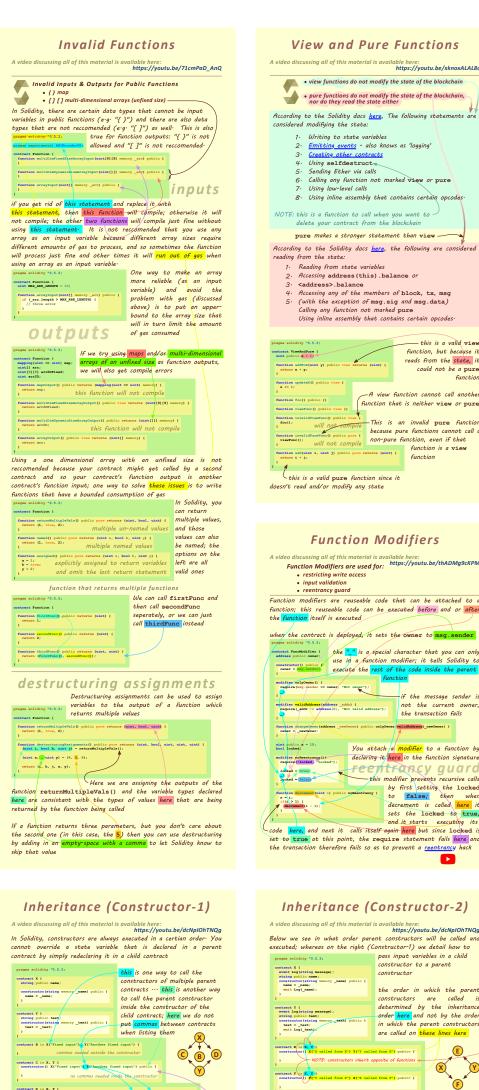
be refunded for any unspent gas

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

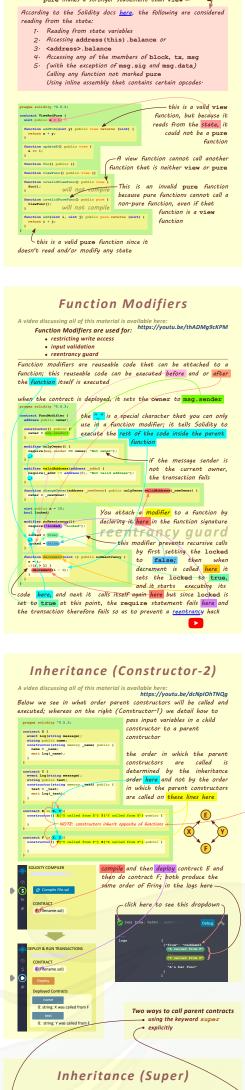
here the constructor is accepting two different inputs to be passed to the parent constructors (X & Y) and here it passes the name variable to contract X and here it

compile and then deploy contract D, and

then upon deployment, set the string\_name to "foo" and the string\_text to "bar"

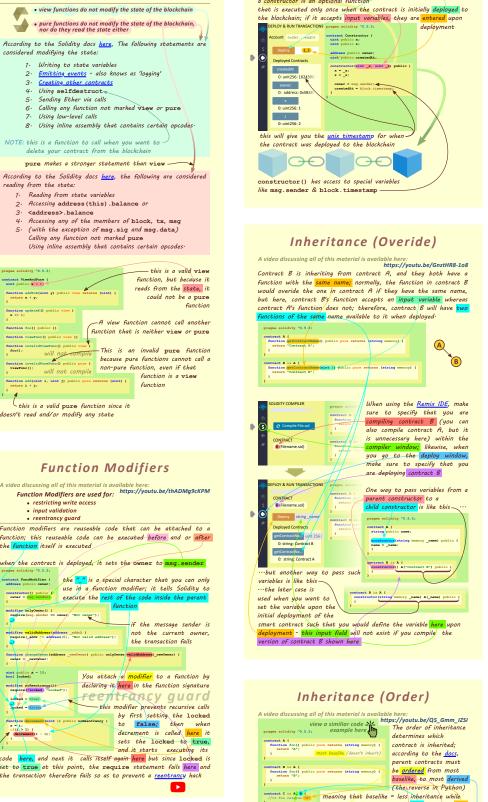
Calling the state variable name returns the string "foo" and calling the state variable text returns the string "bar"

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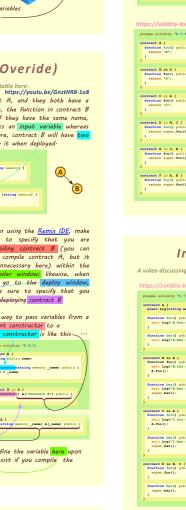


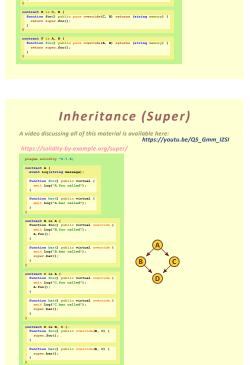
This example on the left shows how the parent (more baselike) functions will be called when using the keyword super; contracts A, B, & C first emit an event then

here, super is used to call all parent contracts in the order of inheritance because the bar(1) function in contract A is being overidden by the bar(1) functions in contracts B and C



Constructor



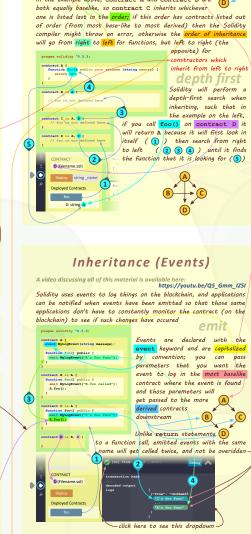


Inheritance (Constructor)

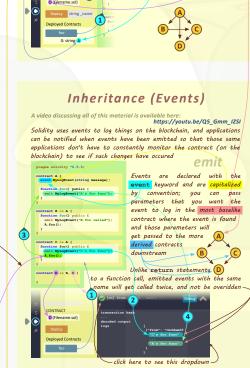
A video discussing all of this material is available here: https://youtu.be/GnztHR8-108

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





derrived = more inheritance; this gives you this





github.com/Richard-Burd/solidity-sandbox last updated @ 10:51am on 15/July/2021 by Richard Burd <u>rick.a.burd@gmail.com</u>

**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

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

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