Intro & State Variables

A video discussing all of this material is available here:
https://youtu.be/4XQsHBJScEk

variables declared outside a function are state variables, they are stored on the blockchain when they are **public**

variables declared inside a function are only available during a call of that function, and such variables are not stored on the blockchain

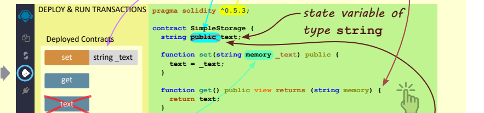
Smart contracts can be written and deployed to a test environment here:
https://remix.ethereum.org The site cookies save your work

STEP 1: Write a smart contract in this file explorer

STEP 2: Compile the smart contract with compiler version compatable with this

STEP 3: Deploy the smart contract here ... to see how it can be accessed on the blockchain with these options here

NOTE: If you hold down both Left-Alt and left-Shift at the same time, you can make the terminal font larger or smaller with the mouse wheel



```
pragma solidity ^0.5.3;

contract SimpleStorage {
  string public text;

  function set(string memory _text) public {
    text = _text;
  }

  function get() public view returns (string memory) {
    return text;
  }
}
```

Taking the **public** statement out of the state variable will cause you to loose the **text** button on the blockchain

Variables in Solidity are stored in one of these three locations
https://docs.soliditylang.org/en/v0.5.3/types.html

storage	this is where data can be permanently stored; these are state variables

Ether and Wei

Gas and Gas Price

Invalid Functions

View and Pure Functions

Function Modifiers

Constructor

Inheritance (Override-1)

Inheritance (Order)

Inheritance (Constructor-1)

Inheritance (Constructor-2)

Inheritance (Super)

Inheritance (Override-2)

Visibility

Events

Inheritance (Events)

Error

Looping

Arrays

Mapping

Enums

Structs

Payable

Sending Ether

Fallback Function

Call

Calling Other Contracts

Delegatecall

YouTube Tutorial References:

Learn Solidity (0.5) by Examples
Smart Contract Programmer

github.com/Richard-Burd/solidity-sandbox
last updated @2:04pm on 24/August/2021 by Richard Burd rick.a.burd@gmail.com

Solidity Illustrated