

COMPUTING BASICS, COMMO, BLOCK CHAIN AN CLOUD COMPUTING	D

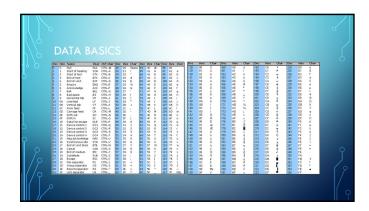
	DATA BASICS	
0		
]		
	• This basic piece of information is called a bit	

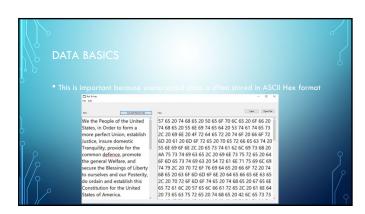
	DATA BASICS	
Ö		
\		
J		
Ϋ́		
1/7		
1 / / / / /		
	ρ	

DATA BASICS	Decimal (Base 10)	Binary (Base 2)	Hexadecimal (Base 16)	
	0	0000	0	
	1	0001	1	
	2	0010	2	
	3	0011	3	
	4	0100	4	
as bytes	5	0101	5	
	6	0110	6	
	7	0111	7	
	8	1000	8	
• 11111111=255=FF	9	1001	9	
	10	1010	Α	
	11	1011	В	
	12	1100	С	
	13	1101	D	
	14	1110	E	
	15	1111	F	



	DATA BASICS	
0		
0		
	Other languages may use other character sets (such as CCCII for Chinese characters)	
1/6		
 / _		





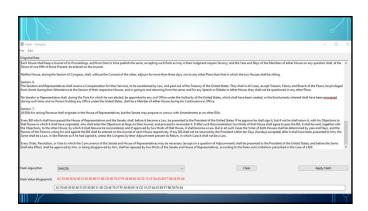
DATA BA	ASICS	
• This is impo	Petron to not ave in the format Cores of a first to the sea of in Hex format December 100000 2022000 002000 0270000 0270000 0270000 0270000 0270000 0270000 0270000 0270000 0270000 0270000 0270000 0270000 0270000 0270000 0270000 0270000 0270000 0270000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 0270000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 027000 0270000 027000 027000 027000 027000 0270000 027000 027000 027000 02700000 027000 027000 027000 027000 027000 027000 027000 027000 0270	

DATA BASICS	

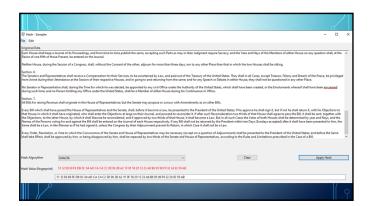
DATA BASICS	
Because data is essentially a string of numbers, mathematical calcube run against the data, including mathematical functions to create "fingerprint" for data. These functions to create "fingerprints" are called hashes	

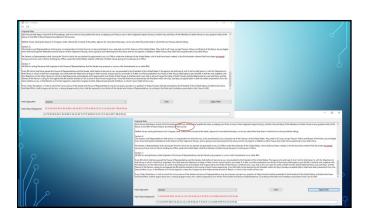
	HASH	
Ö		
	• It does so exactly the same way every time	
	 Therefore, the resulting fixed length string of data is unique, but reproducible for each set of data it is run against 	

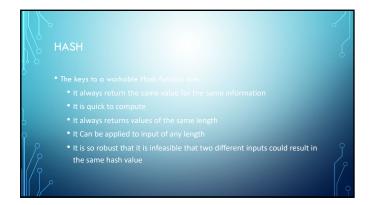




o HASH	
o	9











	[©] ENCRYPTION	
Ö	A hash function can let you know if a file or data have been altered or corrupted, but it doesn't actually protect the data or information	
) የ		
	p	





	ENCRYPTION
1, p	
O	
	 For example changing each letter in a message to a character that is 4 numbers higher in the ascil table than the original character
	 "THIS CLASS IS BORING" becomes XLMWGPEWWMWFSVMRK. The "T" in this is transformed to the character 4 characters higher which is "X", the "H" in this text is transformed to the character 4 characters higher which is "L", and so on.

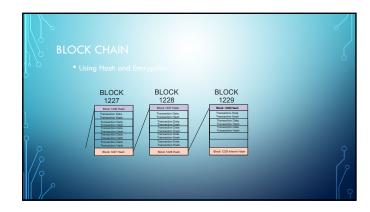


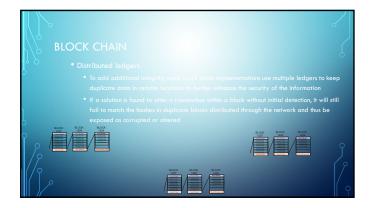


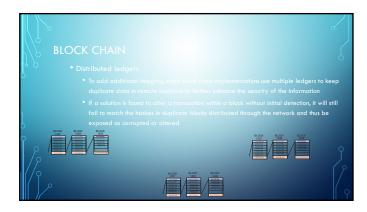
	ENCRYPTION	
1 P		
Ö		
$\frac{1}{2}$	 These keys are identified as a "Public Key" and a "Private Key." The "public key", as the name implies, is accessible to all who want to send an encrypted message. 	
	The other is the "private key" that is kept secure by the owner of that public key or the on who is encrypting.	٩







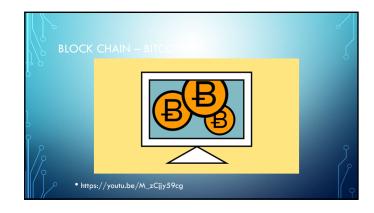
















	CLOUD COMPUTING	
1	 By using shared resources, a company can reduce IT budgets, enhance security, and scale as needs require 	
9		
	٥	









