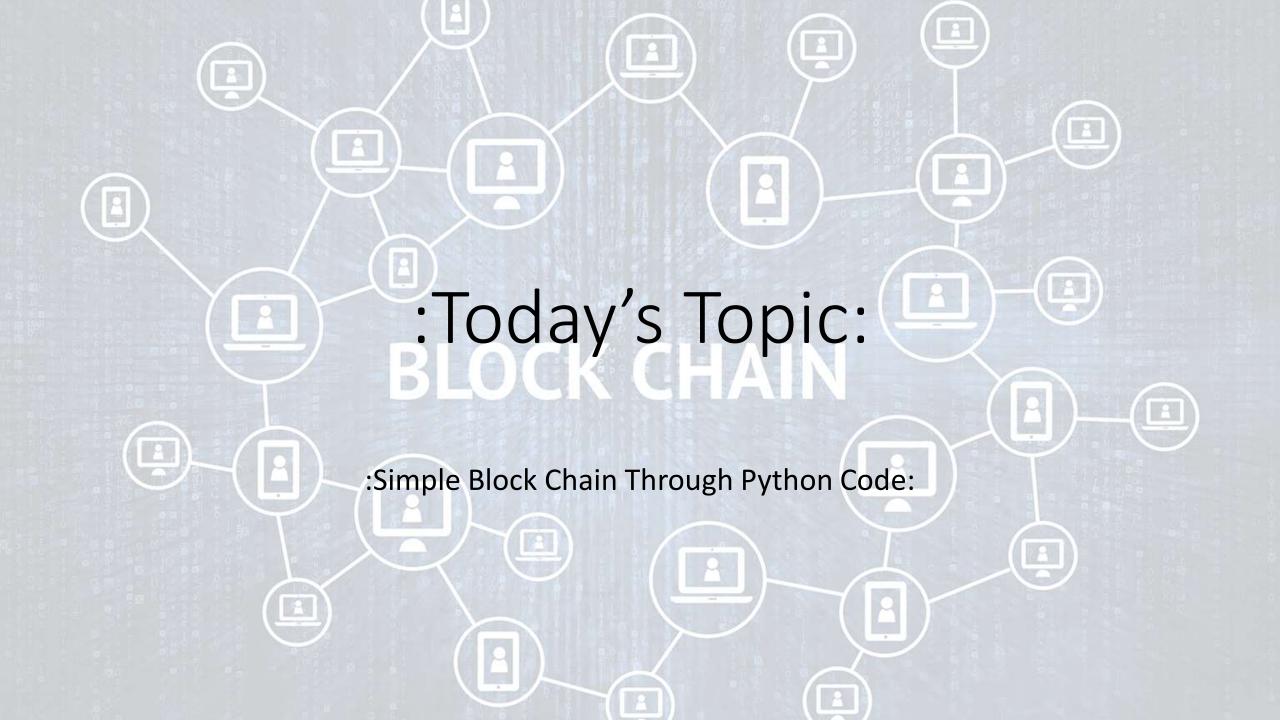
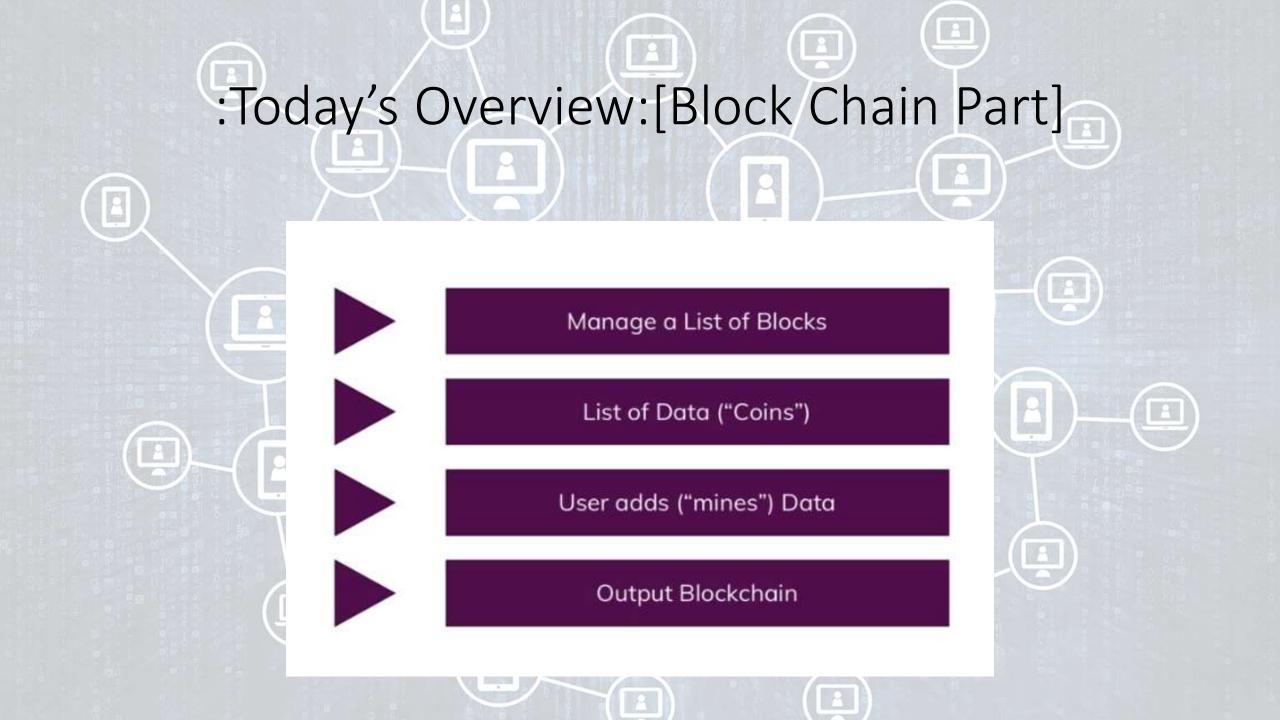
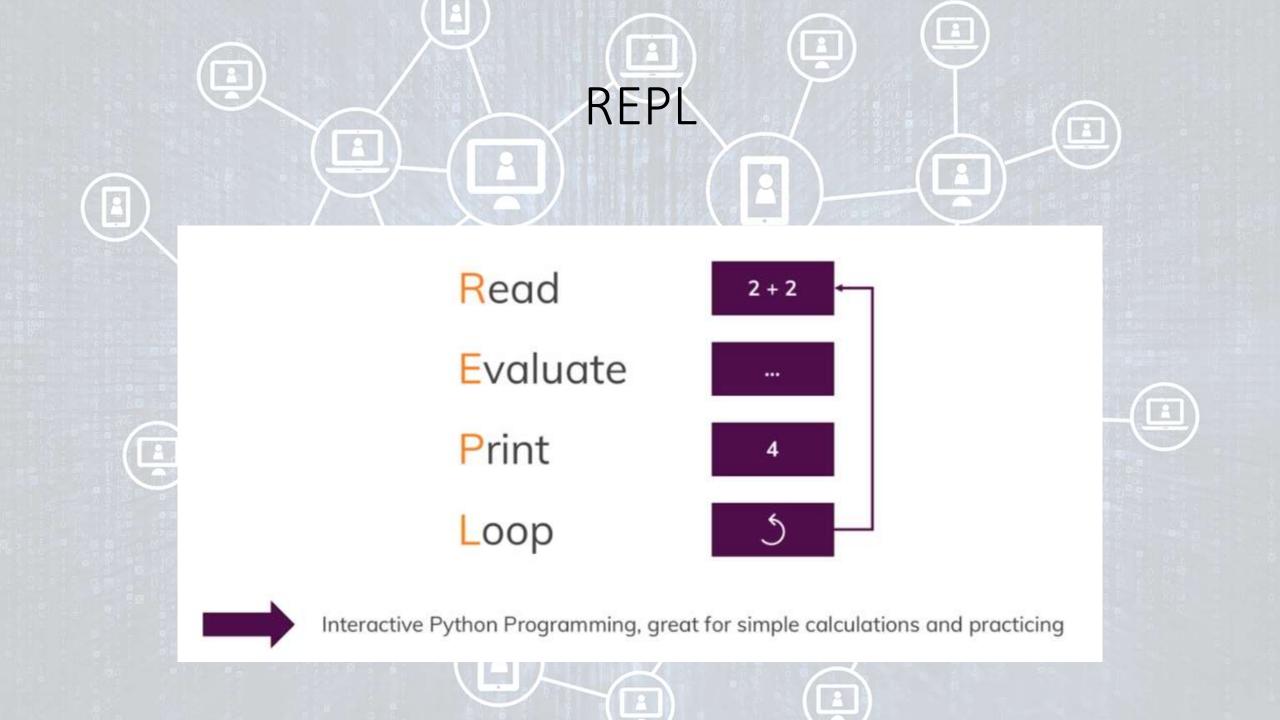
Gyvelcone

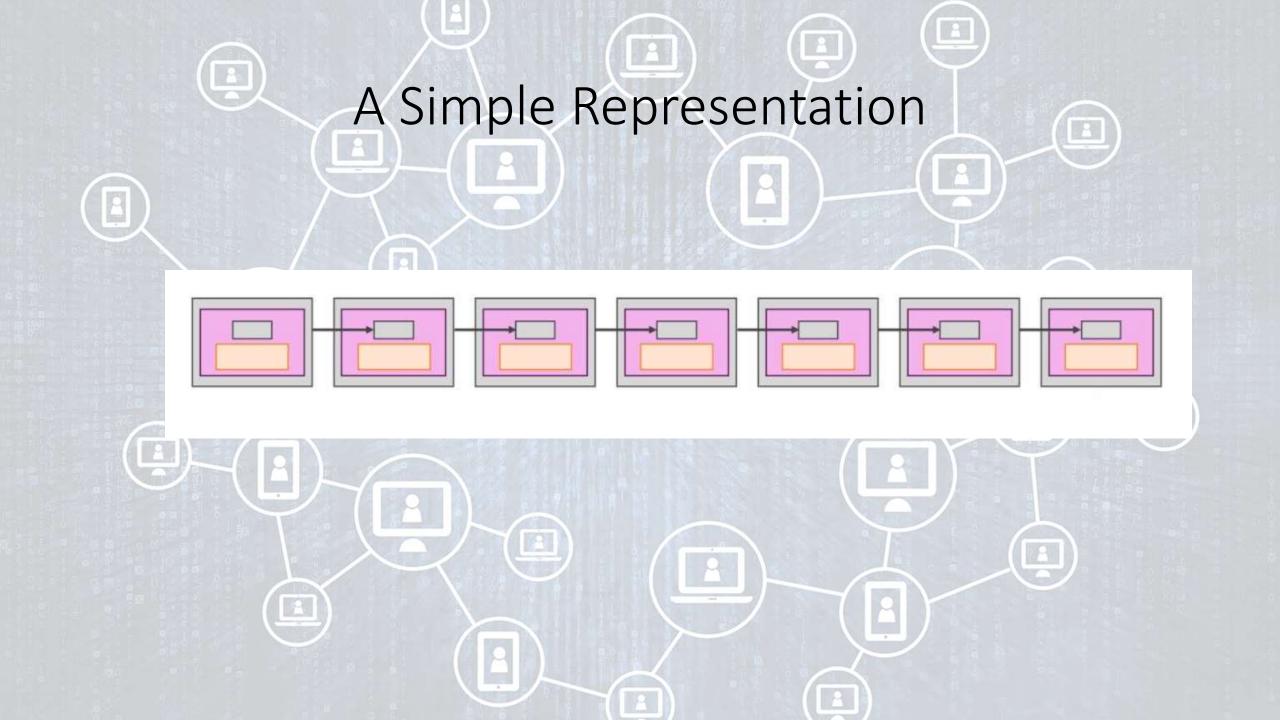


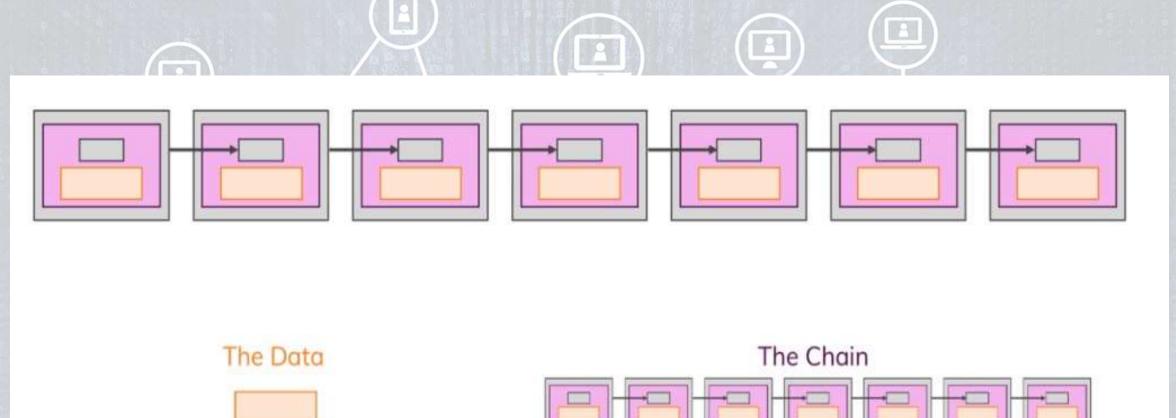
:Today's Overview:[Python Part]

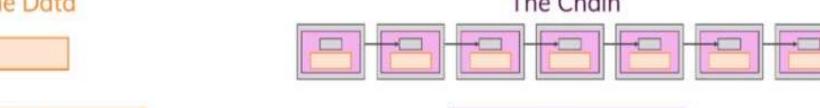










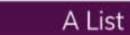


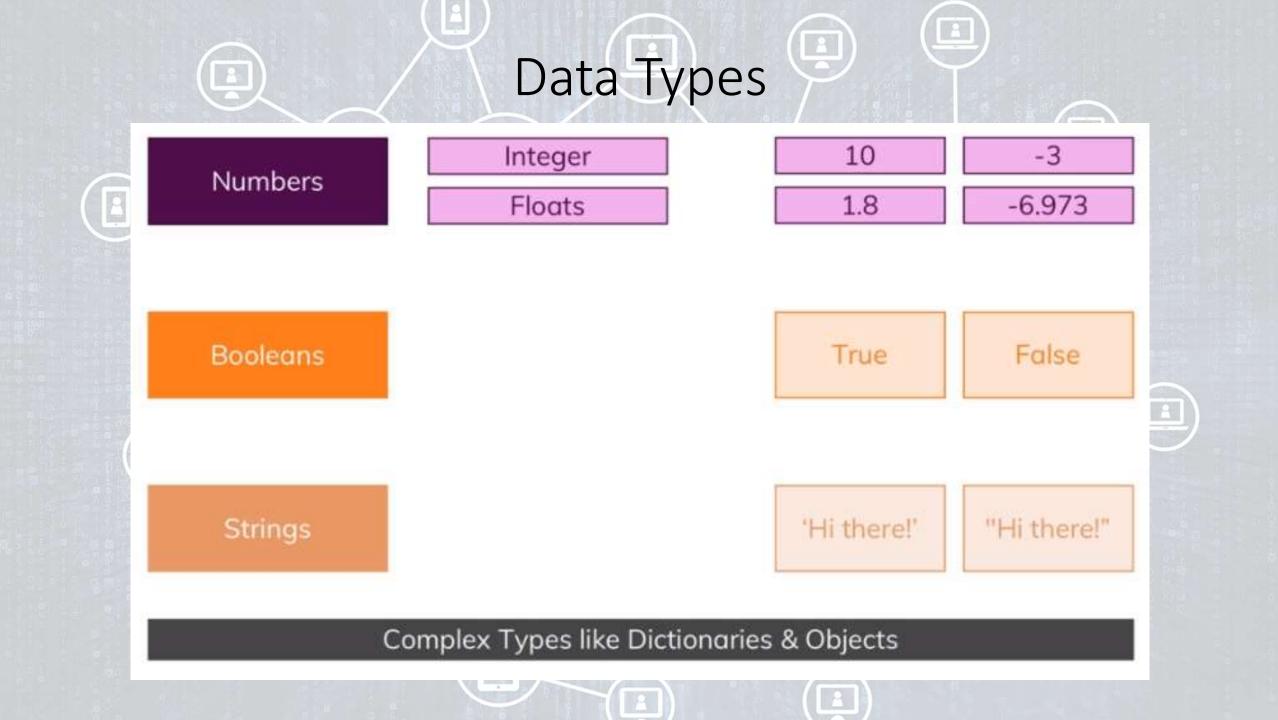
A Number

A String

A Boolean

Complex Structure





Numbers



Integer

Float

10, -55, 5421

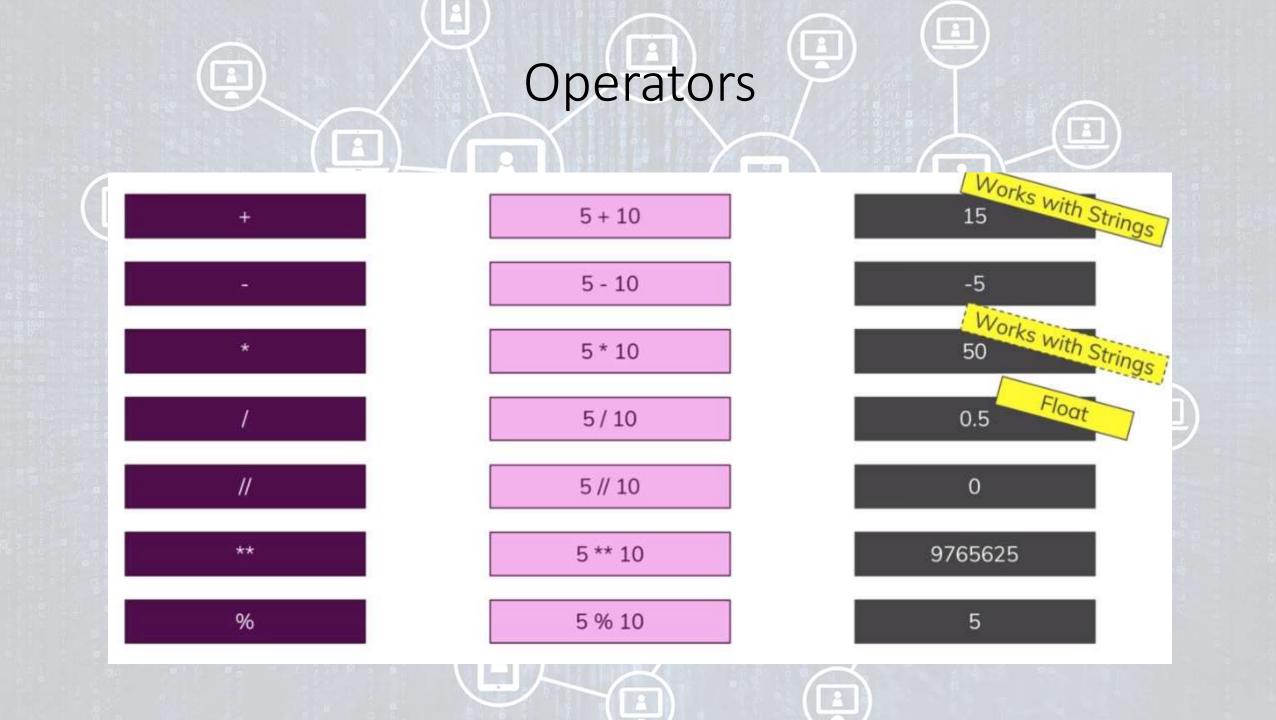
1.591, -0.81, 5000.0

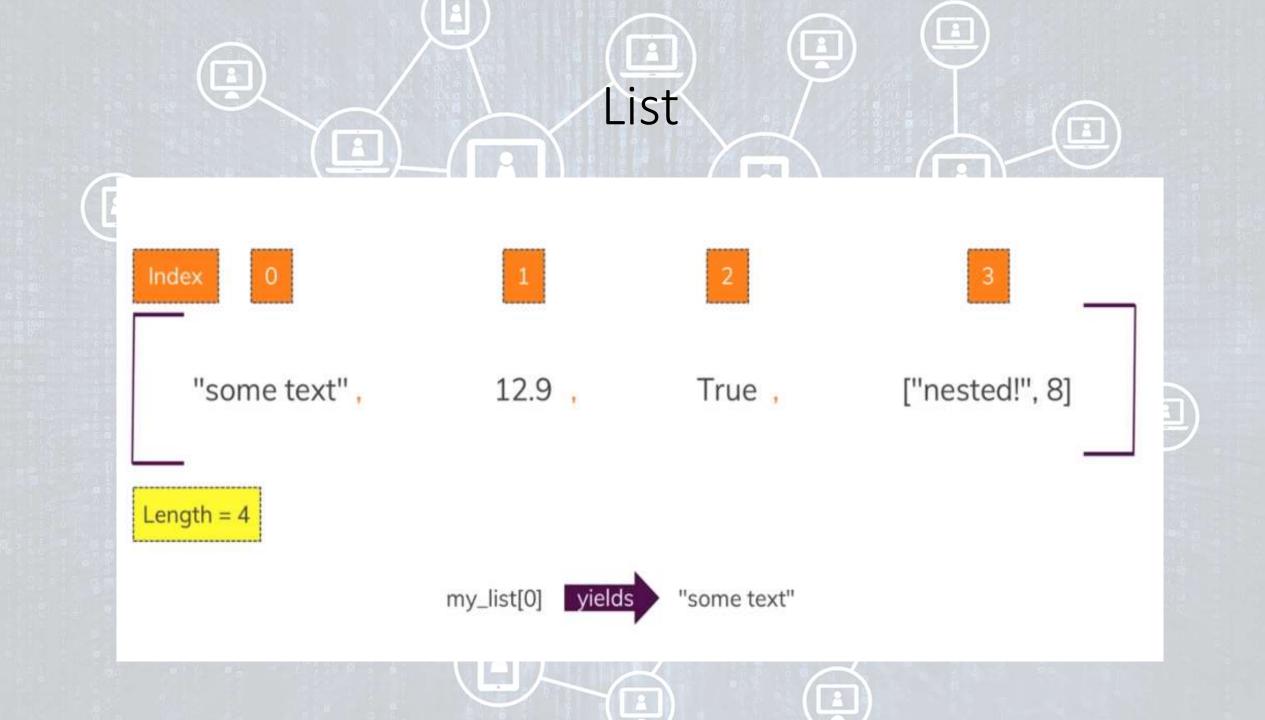
As big (small) as supported by your Memory and Operating System As big (small) as supported by your Memory and Operating System

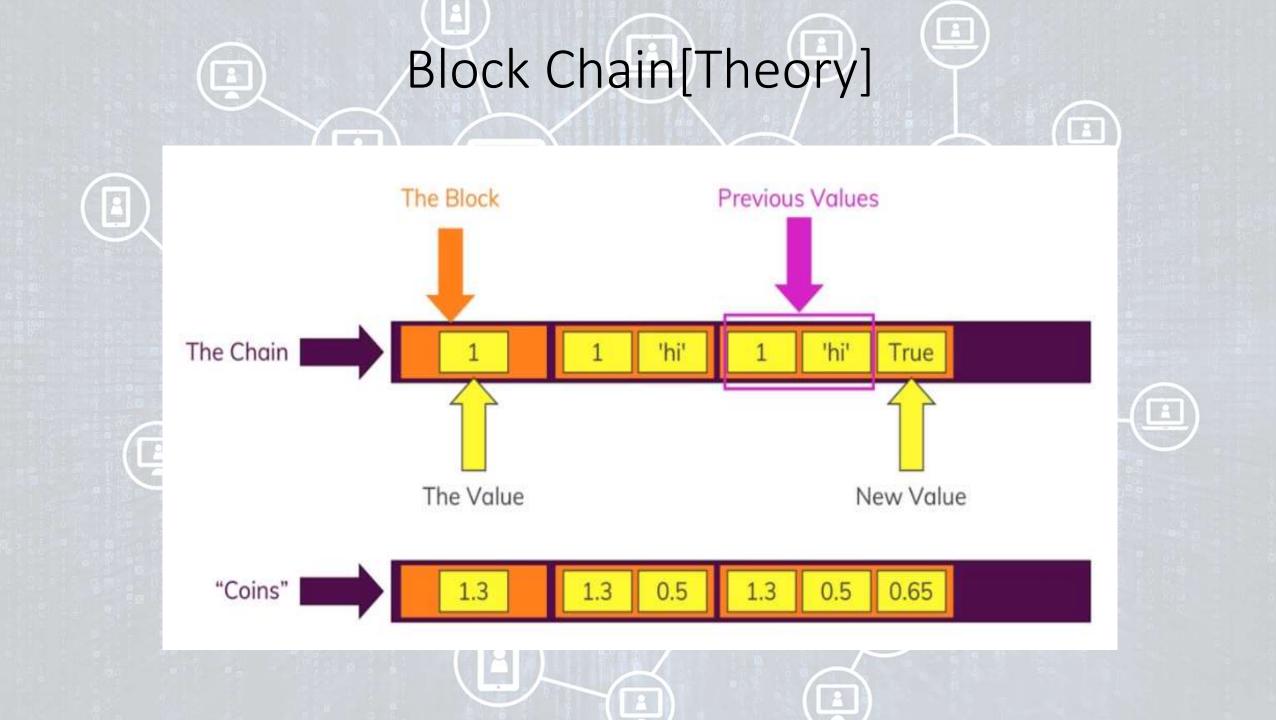
Convert other types to Integer with int()

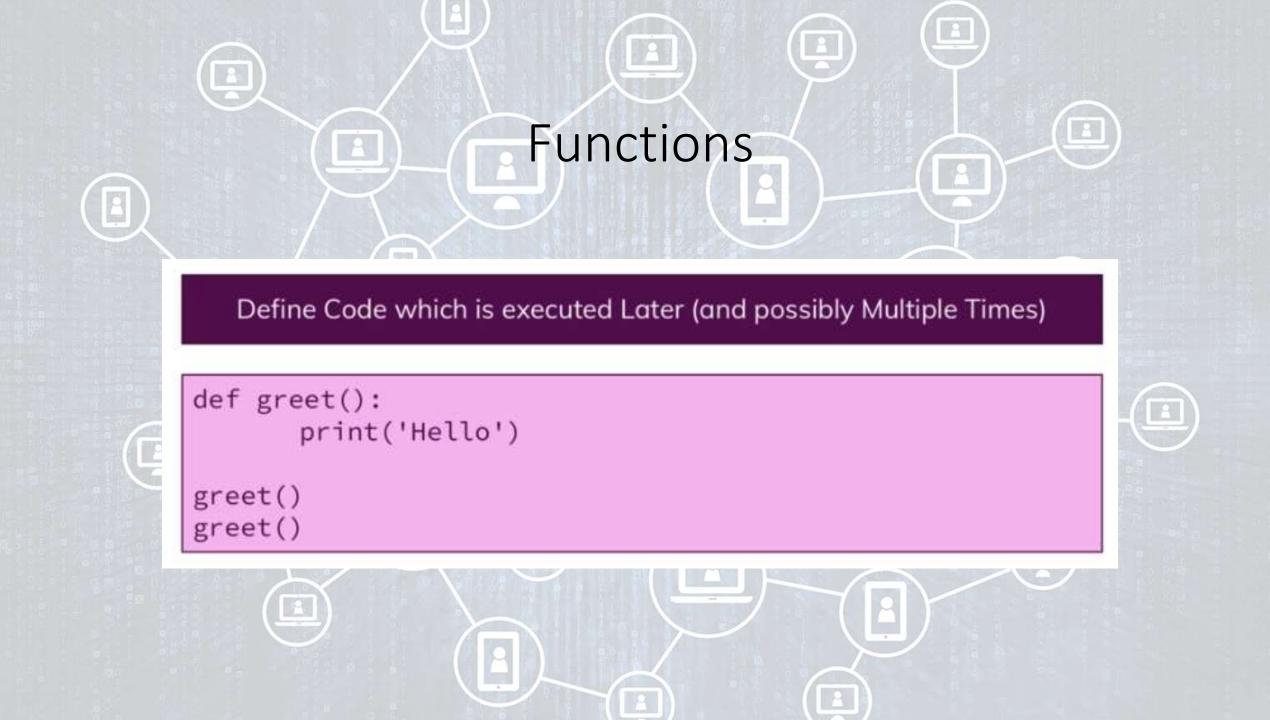
Convert other types to Float with float ()

Write long numbers in easily readable way: 1_000_000.0









Functions [with args] Define Code which is executed Later (and possibly Multiple Times) def greet(): print('Hello') greet() greet()

Can receive Arguments

```
def greet(name):
    print('Hello ' + name)
greet('Max')
```



Variable Scope



Global

```
name = 'Max'
def greet():
    print('Hi , + name)
greet()
```

Local

```
name = 'Max'
def greet():
    age = 29
    print('Hi , + name + ', I am' + age)
greet()
```





Indentation structures Code

Block statements need a:

Functions defined with def

Follow PEB 8 Code Style

Data Types

- Numbers (Integers & Floats)
- Strings
- Booleans

Lists

- Create Lists
- Add Items via append()
- Access Items via Index (which starts at 0!)
- Other List Operations (pop(), ...)

Operators

- Base Arithmetic: +, -, *, /
- Modulus: % (15 % 10 = 5)
- Floor Division: // (15 // 10 = 1)
- Power: ** (2 ** 3 = 8)
- Strings can be added and multiplied (with Integers)

Scope

- Global: Variables defined outside of Functions
- Local: Variables defined inside of Functions

Functions

- Use Indentation and: to define Code Block
- Can use Arguments
- Can return Values
- Can use Default Arguments
- Keyword Arguments allow you to re-order or skip arguments



