# DATA FLOW

An Introduction to Computer Science



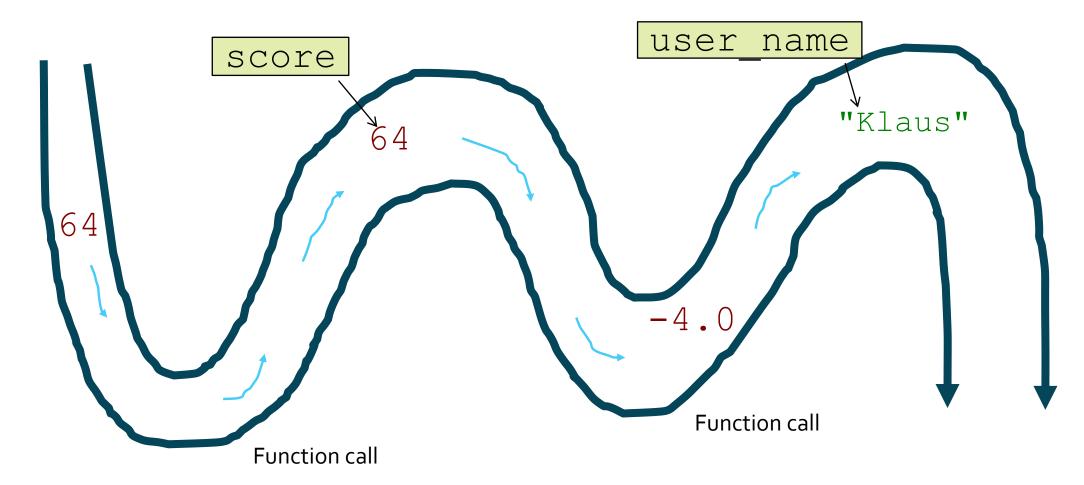
## Scope and Values

#### Reminder of rules:

- 1. Variables inside a function cannot be used outside
- 2. Variables outside a function should not be used inside
- 3. Function return values, not variables



### **Data Flow**





#### Substitution



#### Data between Functions

```
def calculate grade(raw:int, weight:float)->:
    grade = 10 * (weight+raw) ** .5
    return grade
def print grade(grade):
    print("Your grade was:", grade)
raw = 45
weight = 5
grade = calculate grade(raw, weight)
print grade(grade)
```

These variables are distinct from the ones below with the same name!

These lines actually move <u>values</u>
between functions!

# Keywords

```
def
return
pass
and
or
not
in
```

