# CSS01 – Lists, For Loops

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#### Reminder:

- All in-class code and lecture slides can be found on GitHub
  - <a href="https://github.com/JohnSerences/CSS01">https://github.com/JohnSerences/CSS01</a> W2020
- iClickers...
- Sections start this week (today @ 10 is the first)
  - ERCA 117 (in the vicinity of RIMAC)
  - Problem Set
  - Quiz

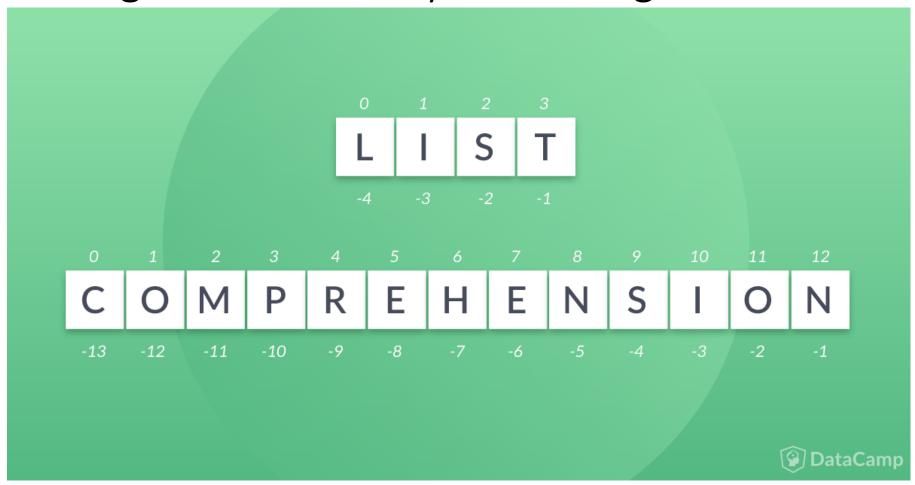
#### Background for today – variable names

- A variable cannot start with a number.
- Variables are case-sensitive (MyVar and myvar and myVar are all different!)
- A variable has to start with a letter or an underscore
- A variable can only contain letters, numbers, and underscores

### Background for today – List object type

- Str, int, etc are objects of single items when you want to store a bunch of such items you need to make an <u>array</u>.
- In python, a <u>list</u> is a collection (array) which is ordered and changeable
  - This means that the elements in the list have a specific sequence (order)
  - You can also change what is in the list
  - You can have duplicate members
- How do we refer to each element in a list (or array more generally)?
  - Indexing
- Slicing working with part of a list

### Background for today – Indexing into a list



## Background for today — "For Loops"

- "for" loop
  - Repeatedly perform a task
  - Can think of this in two general ways:
  - for item in list\_of\_items, do stuff with each item
  - for value in range\_of\_values, do stuff with each value

#### • Indentation!

#### Some shortcut keys (to start with)

- On a PC cntrl = control key, on Mac cntrl = "apple" key
  - New cell above: cntrl+M A
  - New cell below: : cntrl+M B
  - Convert to code cell: cntrl+M Y
  - Convert to text cell: cntrl+M M
- Run a cell (execute code or display markdown): cntrl+ENTER