CSS01 – Lists, For Loops

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Class 02

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Reminder:

- All in-class code and lecture slides can be found on GitHub
  - https://github.com/JohnSerences/CSS01_W2020

- iClickers…

- Sections start this week (today @ 10 is the first)
  - ERCA 117 (in the vicinity of RIMAC)
  - Problem Set
  - Quiz

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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 **array**.

- In python, a **list** 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

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Background for today – Indexing into a list

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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!**

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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

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